Phase Two Environmental Site Assessment

3056 Neyagawa Boulevard & 1039 Dundas Street West

Oakville, Ontario

Prepared For:

NEATT Sixteen Mile Creek Inc.

5926 Chercover Court

Burlington, ON

L7L 6T1

DS Project No: 22-012-101

Date: 2024-05-15

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Executive Summary

DS Consultants Ltd. (DS) was retained by NEATT Sixteen Mile Creek Inc. (the "Client") to conduct a Phase Two Environmental Site Assessment (ESA) of the Property located at 3056 Neyagawa Boulevard & 1039 Dundas Street West & 1039 Dundas Street West, Oakville, Ontario, herein referred to as the "Phase Two Property" or "the Site". It is DS' understanding that this Phase Two ESA has been requested for due diligence purposes in association with the proposed redevelopment of the Property for residential purposes. It is further understood that the proposed development consists of eight (8) blocks of twenty-five (25) storey apartment buildings with up to four (4) levels of underground parking (P4).

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 assess whether contaminants are present, and if present, 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 an irregularly shaped 8.12-hectare (20.0 acres) parcel of land situated within a mixed residential, community and commercial neighbourhood in the Town of Oakville, Ontario. The Phase Two Property is located approximately 110 m northwest of the intersection of Neyagawa Boulevard and Dundas Street West.

The Site is currently developed with seven structures. 3056 Neyagawa Boulevard was occupied by residential tenants, including a 320 m^2 two-storey rectangular-shaped residential dwelling (Site Building A) with one level of basement and attached two-car garage located within the northeastern portion of the Site. A detached 280 m^2 residential double car garage (Site Building B) located along the eastern portion of the Site. One canvas shed (Shed 1) approximately 10 m^2 located along the northern portion of the Site. Multiple (more than 10) shipping containers were present adjacent to the gravel driveway within the northeastern, western and central portions of the Site. The southwestern portion of the Site was comprised of agricultural land.

1039 Dundas Street West was occupied by St. Peter & Paul Serbian Orthodox Church and comprised of a 120 m^2 one-storey rectangular-shaped common area (Site Building C) with an attached 30 m^2 storage shed (Shed 3). To the south of this is a 650 m^2 irregular shaped building (Site Building D) which is used as an event hall and is outfitted with a commercial kitchen. A chapel is present on the central portion of the Site (Site Building E), occupying an

approximate footprint of 100 m^2 and an enclosed 40 m^2 gazebo is present along the northern portion of the Site. Towards the southwestern portion of the Site is an asphalt paved fenced area with an abandoned trailer and several cars. A Telus telecommunication tower is present along the northern Property boundary and a gravel paved driveway winds through the Site in a north-south orientation connecting Site Buildings C, D and E to Dundas Street West. The remaining balance of the Site was landscaped grass, trees and shrubbery. A small paved playground is present on the south-central portion of the Site along the gravel driveway. The Site Buildings were constructed between 1985 and 2005.

A total of twenty (20) Potentially Contaminating Activities (PCAs) were identified in the Phase One ESA, of which fifteen (15) are considered to be contributing to fifteen (15) 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-1A	Northeastern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1B	Central portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1C	Entire Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-5	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1D	Vicinity of former Site Building F, located in the southwestern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-11	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1E	Vicinity of former Site Building G, located in the southern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-12	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1F	Vicinity of former Shed 2, located in the southern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-14	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-2	Northern portion of the Site	#58: Waste Disposal and Waste	Off-Site PCA-6	PHCs, VOCs, BTEX, Metals, As,	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)
		Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners.		Sb, Se, CN-, Cr (VI), Hg, PAHs	
APEC-3	Southwestern portion of the Site in the vicinity of former orchard	#40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site PCA-8	OCPs	Soil
APEC-4A	Northern portion of the Property in the vicinity of Shed 1.	#N/S: Storage of miscellaneous debris, refuse and boats	On-Site PCA-13	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-4B	Eastern portion of the Site	#N/S: Storage of miscellaneous debris and refuse	On-Site PCA-15	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-4C	Central portion of the Site immediately north of agricultural field	#N/S: Storage of miscellaneous debris and refuse	On-Site PCA-16	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-4D	Southern portion of the Site immediately south of agricultural field	#N/S: Storage of miscellaneous debris and refuse	On-Site PCA-17	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-5A	Eastern portion of the Site	#N/S: Inferred application of de-icing agents	On-Site PCA-18	EC, SAR	Soil
				Sodium, Chloride	Groundwater
APEC-5B	Western portion of the Site	#N/S: Inferred application of de-icing agents	On-Site PCA-19	EC, SAR	Soil
				Sodium, Chloride	Groundwater
APEC-6	Within the Vicinity of Site Building B	#27: Garages and Maintenance and Repair of	On-Site PCA-20	PHCs, VOCs, BTEX, Metals, As,	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)
		Railcars, Marine Vehicles and Aviation Vehicles		Sb, Se, Cr (VI), Hg, PAHs	

Notes:
N/S - not specified in Table 2, Schedule D, of O.Reg. 153/04
BTEX = Benzene, Toluene, Ethylbenzene, Xylene
OCPs = Organochlorine Pesticides
PAHs = Polycyclic Aromatic Hydrocarbons
PHCs = Petroleum Hydrocarbons
VOCs = Volatile Organic Compounds

Based on the findings of the Phase One ESA, a Phase Two ESA was recommended to assess the soil and groundwater conditions on the Phase Two Property.

The Phase Two ESA involved the advancement of eight(8) test pits (TP1 to TP8), which were completed on January 10, 2022. The test pits were advanced to a maximum depth of 3.5 metres below ground surface (mbgs) under the supervision of DS personnel. Additionally, twenty-one (21) boreholes (BH23-1 to BH23-21) were advanced on the Phase Two Property, in conjunction with a preliminary geotechnical and hydrogeological investigation, between June 5, 2023 and June 25, 2023. The boreholes were advanced to depths ranging from 1.4 to 18.8 mbgs. Ten (10) boreholes were instrumented with monitoring wells (BH23-1 to BH23-9 and BH23-17) and screened at depths ranging from 3.1 to 18.4 mbgs. In addition, existing monitoring wells (BH1 to BH5) previously installed as part of a historic geotechnical investigation, were utilized to monitor groundwater levels.

Groundwater monitoring wells installed in two (2) of the boreholes (BH23-9 and BH23-17), and three (3) existing monitoring wells (BH1, BH2 and BH4) were utilized to facilitate the collection of groundwater samples and the assessment of groundwater flow direction. The test pit and borehole locations were determined based on the findings of the Phase One ESA. All APECs were investigated using test pits, boreholes and/or monitoring wells in accordance with the requirements of O.Reg. 153/04 (as amended). Soil and groundwater samples were collected and submitted for analysis of all COPCs as follows:

<u>Soil Samples Submitted for Analysis:</u>

- Twenty-two (22) soil samples were submitted for analysis of Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR. Three (3) soil samples were also submitted for analysis of pH only;

- Eleven (11) soil samples were submitted for analysis of Petroleum Hydrocarbons (PHCs) and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX);
- Eleven (11) soil samples were submitted for analysis of Volatile Organic Compounds (VOCs);
- Eighteen (18) soil samples were submitted for analysis of Polyaromatic Hydrocarbons (PAHs);
- Eleven (11) soil samples were submitted for analysis of Organochlorine Pesticides (OCPs).

Groundwater samples were obtained from the five (5) monitoring wells (BH1, BH2, BH4, BH23-9 and BH23-17) and submitted for analysis of metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, VOCs and PAHs.

The soil and groundwater analytical results were compared to the "Table 2: Full Depth Potable – Residential/Parkland – Coarse Grain" provided in the MECP document entitled, "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*" dated April 15, 2011 (Table 2 Standards) for residential/ parkland/ institutional property use.

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

- A surficial layer of topsoil approximately 150 to 250 mm in thickness was encountered in all test-pits (TP1 to TP8) and boreholes BH23-5, BH23-6 and BH23-7 advanced. An asphalt layer, approximately 150 mm in thickness, was encountered at the ground surface in borehole BH23-8 and a 50 mm thick layer of granular fill consisting of sand and gravel was present at the ground surface in borehole BH23-2. Fill materials consisting of clayey silt to silty clay with trace rootlets/organics and/or weathered shale, and cobble fragments were present in all boreholes extending to depths ranging from 0.8 to 1.5 mbgs. Beneath the fill strata, the native soil generally consisted of silty clay till extending to depths of between 1.6 to 3.1 m in all the boreholes. Shale bedrock was encountered at approximate depths ranging from 2.3 to 3.3 mbgs which extended to a maximum termination depth of 18.8 mbgs, and was confirmed by coring.
- The depth to groundwater was measured in seven (7) monitoring wells installed during the course of this investigation (the remaining wells were utilized solely as part of a hydrogeological investigation conducted concurrently). The monitoring wells were screened to intercept the groundwater table. On July 19, 2023 the groundwater levels were found to range between 2.66 to 4.12 mbgs, with

groundwater elevations ranging between 150.83 and 156.38 masl. Based on the groundwater elevations recorded, the groundwater flow direction was southwest towards the Sixteen Mile Creek. It is possible that the groundwater levels may vary seasonally. The groundwater flow direction can only be confirmed through long term monitoring.

- The results of the soil chemical analyses conducted indicated that all samples analyzed met the applicable Site Condition Standards.
- Groundwater samples were collected from the monitoring wells installed on the Phase Two Property and submitted for analysis of Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, VOCs and PAHs. The results of the chemical analyses conducted indicated the following exceedances of the Table 2 Standards:

Table E-1: Summary of Groundwater Impacts Identified

Sample ID	Well Screen Interval (mbgs)	Parameter	Units	Table 2 SCS	Reported Value
BH1	2.5-5.5	Chloride	µg/L	790,000	900,000*
DUP 2 (BH1)					900,000*
MW23-9	3.1-6.1	Chloride	µg/L	790,000	810,000

Notes
1. 0.0 = Concentration exceeds Table 2 SCS
2. * - Exemption pertaining to the application of road salt for pedestrian and vehicular safety is applied per Section 49.1 of O. Reg 153/04.

- The result of the groundwater chemical analysis indicated an elevated concentration of chloride present in groundwater collected from monitoring wells BH1 and BH23-9. Both boreholes are located adjacent to driveways/parking areas on the Property that are subjected to de-icing agents during winter. Per Section 49.1 (1) of O.Reg. 153/04 (as amended) "*If an applicable site condition standard is exceeded at a property solely because of one of the following reasons, the applicable site condition standard is deemed not to be exceeded for the purpose of Part XV.1 of the Act": "…that a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both*". Based on this provision, the site condition standards for chloride in groundwater is deemed not to be exceeded.

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

- All of the soil and groundwater samples analysed were found to satisfy the applicable SCS. As such, it is the opinion of the QP_{ESA} that the applicable SCS for soil and

groundwater at the Phase Two Property have been met and No further investigation is recommended at this time;

- 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 NEATT Sixteen Mile Creek Inc. to complete a Phase Two Environmental Site Assessment (ESA) of the property located at 3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, Ontario, herein referred to as the "Phase Two Property" or "the Site". It is DS' understanding that this Phase Two ESA has been requested for due diligence purposes in association with the proposed redevelopment of the Property for residential purposes. It is further understood that the proposed development consists of eight (8) blocks of twenty-five (25) storey apartment buildings with up to four (4) levels of underground parking (P4).

The intended future property use (residential) does not constitute a more sensitive property use, as defined under O.Reg. 153/04 (as amended) than the current residential and institutional use. Given that the proposed change in property use is not to a more sensitive property use, the filing of a Record of Site Condition (RSC) with the Ontario Ministry of Environment, Conservation and Parks (MECP) will not be mandated under O.Reg. 153/04 (as amended).

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 assess 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 an irregularly shaped 8.12-hectare (20.0 acres) parcel of land situated within a mixed residential, community and commercial neighbourhood in the Town of Oakville, Ontario. The Phase Two Property is located approximately 110 m northwest of the intersection of Neyagawa Boulevard and Dundas Street West. A Site Location Plan depicting the general location of the Phase Two Property is provided in Figure 1.

For the purposes of this report, Dundas Street West is assumed to be aligned in an east-west orientation, and Neyagawa Boulevard in a north-south orientation. A survey of the property was not available at the time of this investigation.

The Site is currently developed with eight structures. 3056 Neyagawa Boulevard was occupied by residential tenants, including a 320 m^2 two-storey rectangular-shaped residential dwelling (Site Building A) with one level of basement and attached two-car

garage located within the northeastern portion of the Site. A detached 280 m^2 residential double car garage (Site Building B) located along the eastern portion of the Site. One canvas shed (Shed 1) approximately 10 m^2 located along the northern portion of the Site. Multiple (more than 10) shipping containers were present adjacent to the gravel driveway within the northeastern, western and central portions of the Site. The southwestern portion of the Site was comprised of agricultural land.

1039 Dundas Street West was occupied by St. Peter & Paul Serbian Orthodox Church and comprised of a 120 m^2 one-storey rectangular-shaped common area (Site Building C) with an attached 30 m^2 storage shed (Shed 3). South of Shed 3 is a 650 m^2 irregularly shaped building (Site Building D) which is used as an event hall and is outfitted with a commercial kitchen. A chapel is present on the central portion of the Site (Site Building E), occupying an approximate footprint of 100 m^2. An enclosed 40 m^2 gazebo is present within the northern portion of the Site. An asphalt paved fenced area with an abandoned trailer and several cars is present within the southwestern portion of the Site. A Telus telecommunication tower is present on-Site adjacent to the northern Property boundary.

A gravel paved driveway traverses through the Site in a north-south orientation connecting Site Buildings C, D and E to Dundas Street West. The remaining balance of the Site consisted of landscaped grass, trees and shrubbery. A small, paved playground is present on the south-central portion of the Site adjacent to the gravel driveway.

A Site Plan depicting the orientation of the buildings on-Site is provided in Figure 2.

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

Table 1-1: Phase Two Property Information

Criteria	Information	Source
Legal Description	3056 Neyagawa Boulevard PT LT 21, CON 1 TRAF NDS, PT 2 20R5073, EXCEPT PT 1 HR683869 & PTS 1 & 2 ON EXPROPRIATION PLAN HR1105049; TOWN OF OAKVILLE 1039 Dundas Street West PT LT 21, CON 1 TRAF NDS, PT 1 20R5073; TOWN OF OAKVILLE	Ontario Land Registry
Property Identification Number (PIN)	3056 Neyagawa Boulevard: 24928-0267 1039 Dundas Street West:	Ontario Land Registry

Criteria	Information	Source
	24928-0063	
Municipal Address	3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, Ontario	Google Earth
Zoning	Future Development	Oakville Zoning Map Zoning By-Law 2009 – 189
Property Owner	3056 Neyagawa Boulevard: NEATT 16 Mile Creek Inc. 1039 Dundas Street West: St. Peter and Paul Serbian Orthodox Parish of Oakville and Mississauga	Ontario Land Registry
Property Owner Contact Information	Evan Kernaghan Representative of the Property Owner evan.kernaghan@neattcommunities.com	Phase One Questionnaire
Current Site Occupants	Residential Tenants and Church	Site Reconnaissance
Site Area	8.12-hectare (20.0 acres)	Google Earth
Centroid UTM Coordinates	Northing: 4813105.37 m N Easting: 601272.44 m E Zone: 17T	Google Earth

1.2 Current and Proposed Future Use

The Phase Two Property is currently occupied by residential tenants on the eastern parcel and a church on the western parcel, these are considered to be residential and institutional Property Use respectively under O.Reg. 153/04 (as amended). It is DS's understanding that the Client intends to redevelop the Site for residential use.

1.3 Applicable Site Condition Standards

The applicable Site Condition Standards (SCS) for the Phase Two Property are considered by the Qualified Person (QP) to be the 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 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 2 SCS is considered appropriate based on the following rationale:

- The Town of Oakville obtains its potable water from Lake Ontario, and does not rely on groundwater as a potable water source;
- The Site is not considered to be environmentally sensitive, as defined under O.Reg. 153/04 (as amended);
- The proposed future use of the Phase Two Property will be residential;
- The Site is not located within 30 m of a water body, 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

During the site visit, standing water was not observed on the Property. The nearest body of water to the Phase Two Property is Sixteen Mile Creek, located approximately 450 m to the southwest. Environmentally Significant Areas are natural areas that have been identified as significant and worthy of protection on three criteria – ecology, hydrology and geology. Municipalities have developed policies to protect natural heritage features. The Region uses Environmentally Significant Areas 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.

The Property includes no Areas of Natural Significance.

2.1.2 Topography and Surface Water Draining Features

The topography on the Phase One Property and within the Phase One Study Area is generally flat with a surficial elevation of 160 metres above sea level (masl) and a slight slope to the southwest. Based on the local topography, the shallow groundwater flow direction is inferred to be southwest towards Sixteen Mile Creek, which is located approximately 450 metres southwest 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 3.6 to 5.5 mbgs. The shallow groundwater flow direction within the Phase One Study Area is inferred to be southwest towards Sixteen Mile Creek.

The Site is situated within a Till Plains physiographic region. The surficial geology within the Phase One Study area is described as "Till, clay to silt-textured till (derived from glaciolacustrine deposits or shale)", and the bedrock is described as "shale, limestone, dolostone, siltstone, of the Queenston Formation". Based on a review of MECP Well Records, the bedrock underlying the Phase One Property is anticipated to be present at a depth of between 2.0 to 4.0 mbgs.

2.2 Past Investigations

DS was provided with the following reports for review by the Client:

- ""*Phase One Environmental Site Assessment, 3056 Neyagawa Boulevard, Oakville, Ontario"* dated September 3, 2021, prepared by AEL Environment, prepared for Diana McGowan (Former Property Owner).
- *"Preliminary Geotechnical Investigation, 3056 Neyagawa Boulevard, Oakville, Ontario"*, prepared for NEATT Communities, prepared by DS Consultants Ltd., dated August 2023 (DS 2023 Geotechnical Report); *and*
- *"Preliminary Hydrogeological Investigation, 3056 Neyagawa Boulevard, Oakville, Ontario"*, prepared for NEATT Communities, prepared by DS Consultants Ltd., dated September 2023 (DS 2023 Hydrogeology Report)

These reports were reviewed to assess 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.

AEL 2021 Phase I ESA

AEL Environment (AEL) completed a Phase I ESA in 2021 which encompassed the eastern portion of the Phase One Property associated with the municipal address 3056 Neyagawa Boulevard, Oakville, Ontario. The Phase I ESA was reportedly completed in accordance with the requirements of the Canadian Standards Association (CSA Standard Z768-01 (R2016)). DS notes the following pertinent details presented by AEL:

- AEL indicated that the Site was occupied by one residential dwelling, one separate residential garage, and approximately ten (10) storage containers at the time of their assessment. AEL also notes that a gravel driveway was present in the northeastern portion of the site, and that a field used for growing and harvesting agricultural crops was present within the southern portion of the site. Cleared areas with gravel ground cover were present within the central-north and eastern portions of the Site.

- AEL noted that historic records and aerial photographs indicated that the property was developed in the late 1980s or early 1990s for residential/agricultural use. Aerial photographs obtained from the Town of Oakville show clear evidence of the current site buildings by 1996. Prior to this, the Site use was likely agricultural or vacant until it was developed for residential/agricultural use.
- AEL reported a gravel material stockpile containing soil of unknown origin located to the north/northeast of the residential garage.
- According to the Phase One Interview provided by AEL the property owner indicated that fill material of unknown origin may have been placed on the central portion of the property.
- AEL did not identify any PCAs or APECs on the Site, stating that a Phase Two ESA is not recommended at this time based on only the low potential for Site impacts from historical importation of gravel fill.
- AEL also stated that off-Site downgradient/transgradient bulk fuel operations and gasoline USTs present a low potential for Site impacts.
- AEL concluded that there were no environmental liabilities of high likelihood at the Site requiring immediate further investigation as of the report date and that the Site is suitable for the current (residential) property use.
- Based on photographs provided by AEL it is inferred that light vehicle servicing has likely taken place within the residential garage.

DS 2023 Geotechnical Report

DS Consultants Ltd (DS) completed a preliminary geotechnical investigation for the proposed residential development located on the eastern portion of the Site (at 3056 Neyagawa Boulevard). It is understood that the proposed development will involve the construction of several blocks comprised of 18 to 27-storey high-rise buildings with an eight (8) storey podium and four (4) levels of underground parking (P4).

In 2022, a preliminary geotechnical investigation was conducted by SHAD and Associates Inc. (SHAD). The investigation involved the advancement of five (5) boreholes (BH1 to BH5) on the eastern portion of the Site, pertaining to 3056 Neyagawa Boulevard, extending to depths ranging from 8.1 to 9.4 metres below existing grade. All five (5) boreholes were instrumented with monitoring wells (BH1 to BH5).

DS' supplementary geotechnical investigation involved the advancement of an additional eight (8) boreholes (BH23-1 to BH23-8) between June 5 and June 15, 2023, extending to

depths ranging from 18.6 to 18.8 metres below ground surface (mbgs). All of the boreholes were equipped with monitoring wells upon completion. A surficial layer of topsoil ranging in thickness from 150 to 250 mm was encountered at the ground surface in boreholes BH23-5, BH23-6, and BH23-7. An asphaltic concrete layer, about 150 mm in thickness, was encountered at the ground surface in borehole BH23-8 and a 50 mm thick layer of granular fill consisting of sand and gravel was present at the ground surface in borehole BH23-2. Fill materials consisting of clayey silt to silty clay with trace rootlets/organics, organic staining, weathered shale, and cobble fragments were present in all boreholes extending to depths ranging from 0.8 to 1.5 m. Beneath the fill layer soils generally consisted of silty clay till/shale complex with thicknesses ranging from 0.2 to 0.9 m in all the boreholes. Shale bedrock was encountered at approximate depths ranging from 2.3 to 3.3 m, corresponding to elevations 152.2 to 157.0 metres above sea level (masl).

The static water levels were measured in the newly installed monitoring wells (BH23-1 to BH23-8) on June 26, 2023, and July 19, 2023. On June 26, 2023, the groundwater levels across the Site ranged between 2.5 to 12.9 mbgs; on July 19, 2023, groundwater levels ranged between 2.8 to 13.1 mbgs.

DS 2023 Hydrogeology Report

DS Consultants Limited (DS) was retained by NEATT Communities to complete a preliminary hydrogeological investigation for the proposed residential development located on the eastern portion of the Site (at 3056 Neyagawa Boulevard).

Between June 5, 2023, and June 25, 2023, DS conducted a hydrogeological investigation in conjunction with the geotechnical and environmental investigation. Twenty-one (21) boreholes (BH23-1 to BH23-21) were advanced to depths ranging from 1.4 to 18.8 meters below ground surface (mbgs). Ten (10) boreholes were instrumented with monitoring wells (BH23-1 to BH23-9 and BH23-17) and screened at depths ranging from 3.1 to 18.4 mbgs. DS also utilized five (5) existing monitoring wells (BH1 to BH5) installed by SHAD and Associates Inc. as part of the preliminary geotechnical investigation in 2022. Boreholes BH1 to BH5 were drilled to depths ranging from 8.1 to 9.4 mbgs and screened at depths ranging from 1.5 to 7.1 mbgs.

The groundwater levels were measured in all available monitoring wells on June 26, 2023, and July 19, 2023. The interpreted local direction of hydraulic movement across the Site is inferred to be in a southwestern direction, towards East Sixteen Mile Creek.

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);
- In January 2022, a contractor was retained to advance eight (8) test pits (TP1 to TP8) on the eastern portion of the Phase Two Property using a backhoe under the supervision of DS personnel, to depths ranging between 2.3 to 3.5 metres below ground surface (mbgs).
- Retained a MECP licenced driller to advance twenty-one (21) additional boreholes in June 2023 (BH23-1 to BH23-21), which were advanced to depths ranging from 1.4 to 18.8 mbgs on the western portion of the Phase Two Property. Ten (10) of the boreholes were instrumented with groundwater monitoring wells (BH23-1 to BH23-9 and BH23-17) upon completion.
- The soil lithology was logged during the excavation, 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;
- Surveyed all monitoring wells to a geodetic benchmark;

- Developed and purged all monitoring wells prior to sampling.
- Collection of groundwater samples from monitoring wells;
- 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 historical operations conducted on-Site.
Sediment	Excluded	Sediment was not identified as a media of concern by the Phase One ESA.
Surface Water	Excluded	Surface water was not identified as a media of concern by the Phase One ESA.

3.2.2 Overview of Field Investigation of Media

Table 3-2: Field Investigation of Media

Media	Methodology of Investigation
Soil	Eight (8) test pits (TP1 to TP8) were advanced on the Phase Two Property in January 2022 to a maximum depth of 3.5 mbgs. Soil samples were collected and submitted for analysis of COPCs as follows: ◆ TP1, TP5, TP7: Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs, PHCs, BTEX, VOCs; ◆ TP2, TP3, TP4: Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs, pH, and; ◆ TP6 and TP8: Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs. An additional, thirteen (13) additional boreholes were advanced in June 2023 (BH23-9 to BH23-21). Soil samples were collected and submitted for analysis of COCPs, as follows:

Media	Methodology of Investigation
	◆ BH23-9, BH23-10, BH23-17, BH23-21: Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs, PAHs, PHCs, BTEX, VOCs; ◆ BH23-11, BH23-12 : Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR; ◆ BH23-13, BH23-18: OCPs, Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR; ◆ BH23-14: OCPs; ◆ BH23-16, BH23-20: Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs, PHCs, BTEX, VOCs, and; ◆ BH23-19: OCPs, Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs.
Groundwater	A total of ten (10) monitoring wells (MW23-1 to MW23-9 and MW23-17)) were installed by DS on the Phase Two Property. Five (5) monitoring wells (BH1 to BH5) were previously installed by SHAD and Associates Inc. (SHAD) in 2022, that were also used to facilitate the collection of representative groundwater samples and water levels. Groundwater sampling was completed within the installed monitoring wells as follows: <u>January 22, 2022</u> Groundwater samples were collected from BH1, BH2 and BH4 and submitted for analysis of all COPCs (Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs). <u>June 30, 2023</u> Groundwater samples were collected from BH23-9 and BH23-17 and submitted for analysis of all COPCs (Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs).

3.3 Phase One Conceptual Site Model

A Conceptual Site Model was developed for the Phase One Property, located at 3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, Ontario. The Phase One Conceptual Site Model is presented in Figures 1 through 5, which 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

- 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	#30: Importation of Fill Material of Unknown Origin	AEL (2021) reported a gravel material stockpile containing soil of unknown origin located to the north/northeast of the residential garage.	PCA is on-Site
2	#30: Importation of Fill Material of Unknown Origin	According to the Phase One Interview provided by AEL the current property owner indicated that fill material of unknown origin may have been placed on the western portion of 3056 Neyagawa Boulevard.	PCA is on-Site
5	#30: Importation of Fill Material of Unknown Origin	DS geotechnical investigation (2023) encountered fill material extending to depths ranging from 0.8 to 1.5 mbgs across the entire Site.	PCA is on-Site
6	#58: Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners.	3070 – 3090 Neyagawa Blvd, the north adjacent property, had one (1) record in the Ontario Regulation 347 Waste Generators database in 2015 and 2021 for alkaline solutions – other metals and non-metals paint/pigment/coating residues, oils & lubricants, inorganic and organic laboratory chemicals, light fuels and organic acids.	PCA is immediately upgradient of the Site.
8	#40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	In the 1934 aerial imagery an orchard can be observed on the southwest portion of the Phase One Property.	PCA is on-Site
11	#30: Importation of Fill Material of Unknown Origin	In the 1965 aerial imagery the residential dwelling (Former Site Building F) on the southwestern portion of the Property, along Dundas Street West, appears to have been demolished.	PCA is on-Site
12	#30: Importation of Fill Material of Unknown Origin	The residential dwelling (Former Site Building G) on the southern portion of the Property has been demolished.	PCA is on-Site
13	#N/S: Storage of miscellaneous debris, refuse and boats	Miscellaneous debris, refuse and boats appears to have been stored at the Site for extended periods of time within the western extent of the Property in the vicinity of Shed 1.	PCA is on-Site

PCA Item.	PCA Description (Per. Table 2, Schedule D of O.Reg. 153/04)	Description	Rationale
14	#30: Importation of Fill Material of Unknown Origin	A shed appears to have been formerly located in the southern portion of the Site (Former Shed 2) from at least 2004 to 2007. The structure was subsequently demolished and fill material of unknown origin may have been utilized for grading/infilling at this location.	PCA is on-Site
15	#N/S: Storage of miscellaneous debris and refuse	Based on historic imagery and the Site Reconnaissance, storage of miscellaneous debris and refuse appears to have taken place within the eastern portion of the Site.	PCA is on-Site
16	#N/S: Storage of miscellaneous debris and refuse	Based on historic satellite imagery, areas within the western portion of 3056 Neyagawa Boulevard, immediately north of the current agricultural field appears to have been utilized for the storage of miscellaneous debris and refuse.	PCA is on-Site
17	#N/S: Storage of miscellaneous debris and refuse	Based on historic satellite imagery, an area within the southern portion of the Site immediately south of the current agricultural field appears to have been utilized for the storage of miscellaneous debris and refuse.	PCA is on-Site
18	#N/S: Application of De-Icing Agents	It is inferred that de-icing agents have been utilized upon the driveways present within the eastern portion of the Property for the purpose of pedestrian and vehicular safety.	PCA is on-Site
19	#N/S: Application of De-Icing Agents	It is inferred that de-icing agents have been utilized upon the driveways present within the western portion of the Property for the purpose of pedestrian and vehicular safety.	PCA is on-Site
20	#27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Based on photographs provided by AEL it is inferred that light vehicle servicing has likely taken place within the residential garage.	PCA is on-Site

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

3.3.2 Contaminants of Potential Concern

A summary of the contaminants of potential concern identified for each respective APEC is presented in Table 3-3 above. The following contaminants of potential concern were identified for the Phase One Property:

- Soil - PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, electrical conductivity, Cr (VI), Hg, low or high pH, SAR, PAHs, OCPs.
- Groundwater - PHCs, VOCs, BTEX, PAHs, Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl.

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.

Plans were not available to confirm the depths of these utilities or whether they are present, 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 3.6 to 5.5 mbgs, therefore the utility corridors do have the potential to 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 on the Phase One Property and within the Phase One Study Area is generally flat with a surficial elevation of 160 metres above sea level (masl) and a slight slope to the southwest. Based on the local topography, the shallow groundwater flow direction is inferred to be southwest towards Sixteen Mile Creek, which is located approximately 450 metres southwest 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 3.6 to 5.5 mbgs. The shallow groundwater flow direction within the Phase One Study Area is inferred to be southwest towards Sixteen Mile Creek.

The Site is situated within a Till Plains physiographic region. The surficial geology within the Phase One Study area is described as “Till, clay to silt-textured till (derived from glaciolacustrine deposits or shale)”, and the bedrock is described as “shale, limestone, dolostone, siltstone, of the Queenston Formation”. Based on a review of MECP Well Records, the bedrock underlying the Phase One Property is anticipated to be present at a depth of between 2.0 to 4.0 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 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. 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 5. 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	DK Environmental Equipment	Davis Drilling Ltd.
Drilling Dates	January 10, 2022	June 5-25, 2023
Drilling Equipment Used	336E Excavator	Track-mounted CME 75
Measures taken to minimize the potential for cross contamination	◆ Soil samples were collected from the excavator bucket. ◆ Soil samples were extracted from the interior of the bucket rather than from areas in contact with the sidewalls. ◆ Use of dedicated and disposable nitrile gloves for the handling of soil samples. A new set of gloves was used for each sample.	◆ 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;
Sample collection frequency	Samples were recovered continuously from the excavator.	Samples were collected at a frequency of every 0.6 m per 0.8 m from the

Parameter	Details	
		ground surface to 3.1 mbgs, followed by one sample per 1.5 m to borehole termination depth.

4.3 Soil Sampling

Soil samples were collected from the excavator bucket or using a 50 mm stainless steel split spoon sampler. Discrete soil samples were collected from the excavator bucket and split-spoon samplers 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 excavation, 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
Procedures for checking calibration of equipment	In-field re-calibration of the RKI Eagle 2 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 is provided in the borehole logs, provided under Appendix B.

4.5 Groundwater Monitoring Well Installation

Monitoring wells were instrumented within ten (10) of the boreholes (BH23-1 to BH23-9 and BH23-17) 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 1.5 m or 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 and aboveground monument 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.

Monitoring wells were developed as follows:

- Monitoring wells BH1, BH2 and BH4 were developed on January 21, 2022, and;
- Monitoring wells MW23-9 and MW23-17 were developed on June 26, 2023.

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-556TM). The YSI Water Quality Meter was calibrated by the supplier Maxim Environmental in accordance with the manufacturer's specifications.

The measurements were conducted at regular intervals 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

January 2022 Sampling Event (January 22, 2022)

Groundwater samples were collected from BH1, BH2 and BH4 a minimum of 24 hours after the development of the monitoring wells.

Monitoring wells BH1, BH2 and BH4 were purged using a peristaltic pump with dedicated 6.4 mm ID polyethylene tubing. A YSI Water Quality Meter equipped with a flow-through cell was used to monitor the geochemical conditions during purging to assess whether steady-state conditions were achieved prior to sampling.

Groundwater samples for metals analysis were field filtered using dedicated 0.45 micro inline 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.

June 2023 Sampling Event (June 30, 2023)

Groundwater samples were collected from MW23-9 and MW23-17 a minimum of 24 hours after the development of the monitoring wells.

Monitoring wells MW23-9 and MW23-17 were purged using a peristaltic pump with dedicated 6.4 mm ID polyethylene tubing. A YSI Water Quality Meter equipped with a flow-through cell was used to monitor the geochemical conditions during purging to assess whether steady-state conditions were achieved prior to sampling.

Groundwater samples for metals analysis were field filtered using dedicated 0.45 micro inline 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

No sediment as defined under O.Reg. 153/04 (as amended) was present on the Phase Two Property at the time of this investigation. Sediment sampling was not conducted as a result.

4.9 Analytical Testing

The soil samples collected in 2022 and 2023 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).

The groundwater samples collected in 2022 and 2023 were submitted to Bureau Veritas (BV) under chain of custody protocols. BV is an independent laboratory accredited by the Canadian Association for Laboratory Accreditation. BV 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 2022 test pitting excavations were backfilled into each applicable test pit for later disposal at the time of Site redevelopment.

The soil cuttings generated by the 2023 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 for disposal by a MECP approved waste-hauler for disposal at a MECP-approved waste management facility.

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 04519910054 located near the intersection of Dundas Street West and Neyagawa Boulevard.

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.

Media	Parameter	Sample Container
	PHCs F2-F4 metals and ORPs PAHs	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
	PAHs	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.

Dedicated equipment was used for well development and sampling for further minimize the risk of cross contamination. Non-dedicated equipment (i.e. interface probe, YSI water quality meter) 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. RKI Eagle 2, 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. The boundaries of soil indicated on the borehole logs and described below are intended to reflect transition zones for the purpose of environmental assessment and should not be interpreted as exact planes of geological change.

A surficial layer of topsoil approximately 150 to 250 mm in thickness was encountered in all test-pits (TP1 to TP8) and boreholes BH23-5, BH23-6 and BH23-7 advanced. An asphalt layer, approximately 150 mm in thickness, was encountered at the ground surface in borehole BH23-8 and a 50 mm thick layer of granular fill consisting of sand and gravel was present at the ground surface in borehole BH23-2. Fill materials consisting of clayey silt to silty clay with trace rootlets/organics and/or weathered shale, and cobble fragments were present in all boreholes extending to depths ranging from 0.8 to 1.5 mbgs. Beneath the fill strata, the native soil generally consisted of silty clay till extending to depths of between 1.6 to 3.1 m in all the boreholes. Shale bedrock was encountered at approximate depths ranging from 2.3 to 3.3 mbgs which extended to a maximum termination depth of 18.8 mbgs, and was confirmed by coring.

Table 5-1: Summary of Geologic Units Investigated

Geologic Unit	Inferred Thickness (m)	Top Elevation (masl)	Bottom Elevation (masl)	Properties
Topsoil	0.1 to 0.25	157.00	155.80	-
Fill Material	0.5 to 0.7	156.1	154.60	Moist
Silty Clay Till	0.2 to 0.9	155.10	154.50	Very Moist
Shale Bedrock	Unknown	153.40	Unknown	-

5.2 Ground Water Elevations and Flow Direction

5.2.1 Rationale for Monitoring Well Location and Well Screen Intervals

Two (2) of the monitoring wells installed by DS on the Phase Two Property (MW23-9 and MW23-17) were utilized to assess the groundwater quality in relation to APEC-2 and APEC-5B. In addition, groundwater monitoring wells (BH1, BH2 and BH4) installed as part of the SHAD Geotechnical Investigation (2022) were also utilized for groundwater sampling purposes in relation to assessing APEC-2, APEC-5A, APEC-5B, and APEC-6. Two additional wells installed by SHAD (2022, namely BH3 and BH5) were utilized solely for groundwater monitoring purposes.

Monitoring wells were screened to intersect the first water bearing formation encountered, generally to allow for the assessment of LNAPL, and to provide information regarding the quality of the groundwater.

The remaining monitoring wells were installed on the Phase Two Property as a part of hydrogeological and geotechnical investigations conducted concurrently with the environmental investigation. These monitoring wells were not used to assess the groundwater conditions on-Site.

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). On July 19, 2023 the shallow groundwater levels were found to range between 2.66 to 4.12 mbgs.

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 on July 19, 2023 was found to range from 150.83 and 156.38 masl in the 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 groundwater flow direction is interpreted to be southwest towards the Sixteen Mile 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 2.66 to 4.12 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. Therefore, there is potential for the utility corridors to act as preferential pathways for contaminant distribution and transport in the event that shallow subsurface contaminants exist at the Phase Two Property.

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 July 19, 2023.

Table 5-2: Summary of Horizontal Hydraulic Gradient Calculations

Hydrogeological Unit	Calculated Horizontal Hydraulic Gradient
Till-Highly Weathered Shale Interface	Minimum: 0.013 m/m Average: 0.014 m/m Maximum: 0.015 m/m

5.3.2 Vertical Hydraulic Gradient

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

5.4 Fine-Medium Soil Texture

A total of six (6) grain size analyses were conducted as part of this investigation. With respect to soil texture and the applicable SCS, although the grain size analyses indicate that more than two-thirds of the soil are considered as medium-fine textured, the more conservative coarse textured SCS were applied.

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
BH23-1 SS2	4	21	49	26	Medium-fine textured
BH23-3 SS3	1	12	58	29	
BH23-5 SS3	4	18	52	26	
BH23-6 SS2	3	14	61	22	
BH23-7 SS4	3	20	53	24	
BH23-8 SS2	9	20	48	23	

5.4.2 Rational for the Number of Samples Collected and Analyzed

The grain size analyses were conducted as part of the geotechnical investigation which was conducted concurrently with the Phase Two ESA. At least 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 non-detect (0 ppm) and 1 ppm. The CGD readings ranged between non-detect (0 ppm) and 15 ppm.

The soil samples were also screened for visual and olfactory indicators of impacts (e.g. staining, odours). No visual or olfactory indications of deleterious materials were noted.

5.6 Soil Quality

The results of the chemical analyses conducted are presented in Tables 5 through 9 (Enclosed). A visual summary of the location of the sample locations is provided in Figures 7A through 7F. The laboratory certificates of analysis have been provided under Appendix C.

5.6.1 Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR

The results of the analyses are tabulated in Table 5 (enclosed), and presented on Figure 7A and 7B.

January 2022

A total of nine (9) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of Metals and As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR. Three (3) soil samples were also submitted for analysis of pH only.

The results of the analyses indicated that all of the samples analysed met the MECP Table 2 SCS.

June 2023

A total of thirteen (13) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of Metals and As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR.

The results of the analyses indicated that all of the samples analysed met the MECP Table 2 SCS.

5.6.2 Petroleum Hydrocarbons

The results of the analyses are tabulated in Table 6 (enclosed), and presented on Figure 7C.

January 2022

A total of three (3) samples were submitted for analysis of PHCs (including BTEX).

The results of the analyses indicated that all of the samples analysed met the MECP Table 2 SCS.

June 2023

A total of eight (8) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of PHCs (including BTEX).

The results of the analyses indicated that all of the samples analysed met the MECP Table 2 SCS.

5.6.3 Volatile Organic Compounds

The results of the analyses are tabulated in Table 7 (enclosed), and presented on Figure 7D.

January 2022

A total of three (3) samples were submitted for analysis of VOCs.

The results of the analyses indicated that all of the samples analysed met the MECP Table 2 SCS.

June 2023

A total of eight (8) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of VOCs.

The results of the analyses indicated that all of the samples analysed met the MECP Table 2 SCS.

5.6.4 Polycyclic Aromatic Hydrocarbons

The results of the analyses are tabulated in Table 8 (enclosed), and presented on Figure 7E.

January 2022

A total of ten (10) samples, including two (2) field duplicates for QA/QC purposes, were submitted for analysis of PAHs.

The results of the analyses indicated that all of the samples analysed met the MECP Table 2 SCS.

June 2023

A total of eight (8) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of PAHs.

The results of the analyses indicated that all of the samples analysed met the MECP Table 2 SCS.

5.6.5 Organochlorine Pesticides (OCPs)

June 2023

A total of eleven (11) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of OCPs. The results of the analyses are tabulated in Table 9 (enclosed), and presented on Figure 7F.

The results of the analyses indicated that all of the samples analysed met the MECP Table 2 SCS.

5.6.6 Commentary on Soil Quality

It is the opinion of the QP_{ESA} that the applicable SCS for the soil at the Phase Two Property have been met.

5.7 Ground Water Quality

The results of the chemical analyses conducted are presented in Tables 10 through 13 (Enclosed). A visual summary of the location of the sample locations is provided in Figures 8A through 8E. The laboratory certificates of analysis have been provided under Appendix C.

5.7.1 Metals and As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl

The results of the analyses are tabulated in Table 10 (enclosed), and presented on Figure 8A and 8B.

January 2022

A total of five (5) samples, including two (2) field duplicates for QA/QC purposes, were submitted for analysis of Metals and As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl.

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

Table 5-4: Summary of ORP Impacts in Groundwater – January 2022

Sample ID	Well Screen Interval (mbgs)	Parameter	Units	Table 2 SCS	Reported Value
BH1	2.5- 5.5	Chloride	µg/L	790,000	900,000*
DUP 2 (BH1)					900,000*

Notes
1. 0.0 = Concentration exceeds Table 2 SCS
2. * - Exemption pertaining to the application of road salt for pedestrian and vehicular safety is applied per Section49.1 of O. Reg 153/04.

June 2023

A total of three (3) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of Metals and As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl.

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

Table 5-5: Summary of ORP Impacts in Groundwater – June 2023

Sample ID	Well Screen Interval (mbgs)	Parameter	Units	Table 2 SCS	Reported Value
MW23-9	3.1-6.1	Chloride	µg/L	790,000	810,000*

Notes
1. 0.0 = Concentration exceeds Table 2 SCS
2. * - Exemption pertaining to the application of road salt for pedestrian and vehicular safety is applied per Section 49.1 of O. Reg 153/04.

5.7.2 Petroleum Hydrocarbons

The results of the analyses are tabulated in Table 11 (enclosed), and presented on Figure 8C.

January 2022

A total of five (5) samples, including two (2) field duplicates for QA/QC purposes, were submitted for analysis of PHCs (including BTEX).

The results of the analyses indicated that all of the samples analysed met the MECP Table 2 SCS.

June 2023

A total of three (3) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of PHCs (including BTEX).

The results of the chemical analyses conducted indicated that all samples analyzed met the MECP Table 2 SCS.

5.7.3 Volatile Organic Compounds

The results of the analyses are tabulated in Table 12 (enclosed), and presented on Figure 8D.

January 2022

A total of five (5) samples, including two (2) field duplicates and a single trip blank for QA/QC purposes, were submitted for analysis of VOCs.

The results of the chemical analyses conducted indicated that all samples analyzed met the MECP Table 2 SCS.

June 2023

A total of three (3) samples, including one (1) field duplicate and trip blank for QA/QC purposes, were submitted for analysis of VOCs.

The results of the chemical analyses conducted indicated that all samples analyzed met the MECP Table 2 SCS.

5.7.4 Polycyclic Aromatic Hydrocarbons

The results of the analyses are tabulated in Table 13 (enclosed), and presented on Figure 8E.

January 2022

A total of five (5) samples, including two (2) field duplicates for QA/QC purposes, were submitted for analysis of PAHs.

The results of the chemical analyses conducted indicated that all samples analyzed met the MECP Table 2 SCS.

June 2023

A total of three (3) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of PAHs.

The results of the chemical analyses conducted indicated that all samples analyzed met the MECP Table 2 SCS.

5.7.5 Commentary on Groundwater Quality

ORP

Groundwater containing elevated concentrations of chloride was identified in monitoring wells BH1 and BH23-9, respectively located adjacent to a driveway on the eastern and western portions of the Site.

Per Section 49.1 (1) of O.Reg. 153/04 (as amended), "*If an applicable site condition standard is exceeded at a property solely because of one of the following reasons, the applicable site condition standard is deemed not to be exceeded for the purpose of Part XV.1 of the Act*": *"…that a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both".* Based on this provision, the site condition standards for chloride in groundwater is deemed not to be exceeded.

It is the opinion of the QP_{ESA} that the applicable SCS for groundwater at the Phase Two Property have been met for the purposes of filing an RSC.

5.8 Sediment Quality

Sediment was not identified as a media of concern by the Phase One ESA. Sediment sampling was not completed 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 4.12, 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 5-6: Summary of QA/QC Results

Sample ID	QA/QC duplicate	Medium	Parameter Analyzed	QA/QC Result
January 2022 Soil Sampling Event				
TP1-1	DUP 1	Soil	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	All results were within the analytical protocol criteria for RPD
TP3-1	DUP 2	Soil	PAHs	All results were within the analytical protocol criteria for RPD
TP4-1	DUP 3	Soil	PAHs	All results were within the analytical protocol criteria for RPD
January 2022 Groundwater Sampling Event				

Sample ID	QA/QC duplicate	Medium	Parameter Analyzed	QA/QC Result
BH1	DUP 2	Groundwater	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, VOCs, PAHs	All results were within the analytical protocol criteria for RPD
BH2	DUP 1	Groundwater	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, VOCs, PAHs	All results were within the analytical protocol criteria for RPD
June 2023 Soil Sampling Event				
BH23-17 SS3	DUP-1	Soil	PHCs, BTEX, VOCs	All results were within the analytical protocol criteria for RPD
BH23-18 SS1	DUP-2	Soil	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	All results were within the analytical protocol criteria for RPD
BH23-9 SS2	DUP-3	Soil	PAHs	All results were within the analytical protocol criteria for RPD
BH23-10 SS1	DUP-4	Soil	OCPs	All results were within the analytical protocol criteria for RPD
June 2023 Groundwater Sampling Event				
MW23-17	DUP1	Groundwater	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, VOCs, PAHs	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.

BV and SGS routinely conduct internal QA/QC analyses in order to satisfy regulatory QA/QC requirements. The results of the SGS QA/QC analyses for the submitted soil samples are summarized in the laboratory Certificates of Analyses provided in Appendix C.

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.

5.10 Phase Two Conceptual Site Model

A Phase Two Conceptual Site Model (CSM) was developed through a synthesis of the information obtained through the completion of the Phase One ESA, and the data collected as part of the Phase Two ESA. The Phase Two CSM is presented as Appendix D.

6.0 Conclusions

This Phase Two ESA involved the advancement of eight (8) test pits, and twenty-one (21) boreholes, ten (10) of which were instrumented with monitoring wells as well as the collection of soil and groundwater samples for analysis of the potential contaminants of concern, including:

- Metals, As, Sb, Se, B-HWS, CN-, electrical conductivity, Cr (VI), Hg, low or high pH, SAR, PHCs, VOCs, PAHs and OCPs in soil, and;
- Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, VOCs and PAHs in groundwater.

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

- A surficial layer of topsoil approximately 150 to 250 mm in thickness was encountered in all test-pits (TP1 to TP8) and boreholes BH23-5, BH23-6 and BH23-7 advanced. An asphalt layer, approximately 150 mm in thickness, was encountered at the ground surface in borehole BH23-8 and a 50 mm thick layer of granular fill consisting of sand and gravel was present at the ground surface in borehole BH23-2. Fill materials consisting of clayey silt to silty clay with trace rootlets/organics and/or weathered shale, and cobble fragments were present in all boreholes extending to depths ranging from 0.8 to 1.5 mbgs. Beneath the fill strata, the native soil generally consisted of silty clay till extending to depths of between 1.6 to 3.1 m in all the boreholes. Shale bedrock was encountered at approximate depths ranging from 2.3 to 3.3 mbgs which extended to a maximum termination depth of 18.8 mbgs, and was confirmed by coring.
- The depth to groundwater was measured in seven (7) monitoring wells installed during the course of this investigation (the remaining wells were utilized solely as part of a hydrogeological investigation conducted concurrently). The monitoring

wells were screened to intercept the groundwater table. On July 19, 2023 the groundwater levels were found to range between 2.66 to 4.12 mbgs, with groundwater elevations ranging between 150.83 and 156.38 masl. Based on the groundwater elevations recorded, the groundwater flow direction was southwest towards the Sixteen Mile Creek. It is possible that the groundwater levels may vary seasonally. The groundwater flow direction can only be confirmed through long term monitoring.

- The results of the soil chemical analyses conducted indicated that all samples analyzed met the applicable Site Condition Standards.
- Groundwater samples were collected from selected monitoring wells installed on the Phase Two Property and submitted for analysis of Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, VOCs and PAHs. The results of the chemical analyses indicated that all of the groundwater samples analyzed met the MECP Table 2 RPI SCS, with the exception of an elevated concentration of chloride present in groundwater associated with monitoring wells BH1 and MW23-9. Both boreholes are located adjacent to driveways/parking areas on the Property which are subject to de-icing agents during winter. Per Section 49.1 (1) of O.Reg. 406/19, published December 4, 2019 "*If an applicable site condition standard is exceeded at a property solely because of one of the following reasons, the applicable site condition standard is deemed not to be exceeded for the purpose of Part XV.1 of the Act": "…that a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both*". Based on this provision, the site condition standards for chloride in groundwater is deemed not to be exceeded.
- Based on the findings of this Phase Two ESA, it is the opinion of the QP_{ESA} that the applicable SCS for soil and groundwater at the Phase Two Property have been met. A Record of Site Condition may be filed for the Phase Two Property;
- All monitoring wells should be decommissioned in accordance with O.Reg. 903 when no longer required.

6.1 Qualifications of the Assessors

Fahmida Anwar, B.Sc.

Ms. Anwar is a Project Coordinator with DS Consultants Ltd. Fahmida holds a Bachelor of Science in Chemical Engineering from the American University of Sharjah (United Arab Emirates), as a well as a Post Graduate Certificate in Environmental Control from Sheridan College. Ms. Anwar has been working in the environmental sector since 2018 and has experience conducting Phase One and Phase Two Environmental Site Assessments.

Ms. Kirstin Olsen, MSc.

Ms. Olsen is a Senior Project Manager in the Environmental Services Department at DS Consultants Ltd. 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.

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

Mr. Fioravanti is the Vice President, Environmental Services with DS Consultants Ltd. 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 a decade of environmental consulting experience and has conducted and/or managed hundreds of 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).

6.2 Signatures

This Phase Two ESA was conducted under the supervision of Mr. Patrick (Rick) Fioravanti 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

Fahmida Anwar, B.Sc.
Project Coordinator

Reviewed by:

Kirstin Olsen M.Sc.
Senior Project Manager – Environmental

Patrick M. Fioravanti, B.Sc., P.Geo. QP_{ESA}
Vice President – Environmental Services

6.3 Limitations

This report was prepared for the sole use of NEATT Sixteen Mile Creek Inc. and is intended to provide an assessment of the environmental condition on the property located at 3056 Neyagawa Boulevard & 1039 Dundas Street West, 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

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Tables

Table 1: Summary of Monitoring Well Installation and Groundwater Data

Well ID			BH1	BH2	BH3	BH4	BH5	MW23-9	MW23-17
Installed By:			SHAD	SHAD	SHAD	SHAD	SHAD	DS	DS
Installation Date:			18-Jan-22	18-Jan-22	20-Jan-22	20-Jan-22	21-Jan-22	Jun 19, 2023	Jun 16, 2023
Well Status:			Active	Active	Active	Active	Active	Active	Active
Inner Diameter		mm	50	50	50	50	50	50	50
Surface Elevation		masl	158.34	159.66	157.50	158.35	156.10	158.20	154.50
Bottom of Concrete Seal/Top of Bentonite Seal		mbgs	0.30	0.30	0.30	0.30	0.30	0.30	0.30
		masl	158.04	159.36	157.20	158.05	155.80	157.90	154.20
Bottom of Bentonite Seal/Top of Sand Pack		mbgs	1.80	3.40	0.90	2.50	1.70	2.40	2.40
		masl	156.54	156.26	156.60	155.85	154.40	155.80	152.10
Top of Well Screen		mbgs	2.40	4.00	1.50	3.10	2.30	3.10	3.10
		masl	155.94	155.66	156.00	155.25	153.80	155.10	151.40
Well Screen Length		m	3.00	3.00	1.50	3.00	3.00	3.00	3.00
Bottom of Well Screen		mbgs	5.40	7.00	3.00	6.10	5.30	6.10	6.10
		masl	152.94	152.66	154.50	152.25	150.80	152.10	148.40
Groundwater (GW) Monitoring									
28-Jan-22	Depth to GW	mbgs	3.6	3.6	2.9	3.8	3.4	NI	NI
	GW Elevation	masl	154.74	156.06	154.60	154.55	152.70	NI	NI
4-Feb-22	Depth to GW	mbgs	3.6	3.6	2.9	3.8	3.5	NI	NI
	GW Elevation	masl	154.74	156.06	154.60	154.55	152.60	NI	NI
26-Jun-23	Depth to GW	mbgs	3.24	NM	2.71	3.53	4.07	4.07	3.68
	GW Elevation	masl	155.10	NM	154.79	154.82	152.03	154.13	150.82
27-Jun-23	Depth to GW	mbgs	3.25	3.1	2.74	3.51	3.21	5.2	4.77
	GW Elevation	masl	155.09	156.56	154.76	154.84	152.89	153.00	149.73
19-Jul-23	Depth to GW	mbgs	3.02	3.28	2.66	3.49	3.21	4.12	3.67
	GW Elevation	masl	155.32	156.38	154.84	154.86	152.89	154.08	150.83

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
TP1	TP1-1	0.0-0.6	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs, PHCs, BTEX, VOCs	APEC-1C, APEC-1F
	Dup 1 (TP1-1)			Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	
TP2	TP2-1	0.0-0.6	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1C, APEC-4D
	TP2-3	1.5-2.5	Sand	pH	
TP3	TP3-1	0.0-0.6	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1C, APEC-4C, APEC-5A
	Dup 2 (TP3-1)			PAHs	
	TP3-4	2.2-2.7	Silty sand	pH	
TP4	TP4-1	0.0-0.6	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1B, APEC-1C, APEC-2
	Dup 3 (TP4-1)			PAHs	
	TP4-3	1.5-2.2	Silty sand	pH	
TP5	TP5-1	0.0-0.7	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1C, APEC-2, APEC-4A
	TP5-4	2.2-2.5	Silty sand	PHCs, BTEX, VOCs	
TP6	TP6-1	0.0-0.7	Sandy silt	PAHs	APEC-1C, APEC-4B, APEC-5A
	TP6-2	0.7-1.5	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	
	TP6-3	1.5-2.2	Silty sand	pH	
TP7	TP7-1	0.0-0.7	Silty sand	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	APEC-1C, APEC-5A, APEC-6
	TP7-2	0.7-1.5	Silty sand	PAHs	
	TP7-4	2.3-3.1	Silty sand	PHCs, BTEX, VOCs	
TP8	TP8-1	0.0-0.6	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1A, APEC-1C, APEC-5A
BH23-9	SS1	0.1-0.7	Fill - Sand	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-2
	SS2	0.8-1.4	Silty clay till	PAHs	
	DUP-3				
	SS3	1.5-2.1	Silty clay till	PHCs, BTEX, VOCs	
BH23-10	SS1	0.3-0.6	Fill - Clayey silt	OCPs	APEC-1C, APEC-3
	DUP-4				
	SS2	0.8-1.4	Silty clay till	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	
	SS3	1.5-1.8	Silty clay till	PHCs, BTEX, VOCs	
BH23-11	SS2	0.8-1.4	Silty clay till	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	APEC-1C
BH23-12	SS2	0.8-1.4	Silty clay till	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	APEC-1C, APEC-1E
BH23-13	SS1	0.2-0.6	Fill - Silty clay	OCPs	APEC-1C, APEC-3
	SS2	0.8-1.4	Silty clay till	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	
BH23-14	SS1	0.2-0.6	Fill - Silty clay	OCPs	APEC-1C, APEC-3
BH23-15	SS1	0.2-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-3
	SS2	0.8-1.4	Silty clay till	PAHs, PHCs, BTEX, VOCs	
BH23-16	SS1	0.2-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1C, APEC-5B
	SS2	0.8-1.4	Fill - Silty clay	PHCs, BTEX, VOCs	

Table 2: Summary of Soil Samples Submitted for Chemical Analysis

Borehole ID	Sample No.	Sample Depth (mbgs)	Soil Description	Parameter Analyzed	APEC Investigated
BH23-17	SS1	0.3-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-5B
	SS2	0.8-1.4	Silty clay till	PAHs	
	SS3	1.5-2.1	Silty clay till	PHCs, BTEX, VOCs	
	DUP-1				
BH23-18	SS1	0-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-5B
	DUP-2			Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	
BH23-19	SS1	0.2-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-1D
	SS2	0.8-1.4	Silty clay till	PAHs	
BH23-20	SS1	0.2-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-5B
	SS3	1.5-2.1	Silty clay till	PHCs, BTEX, VOCs	
BH23-21	SS1	0.2-0.6	Fill - Silty clay	PAHs, OCPs	APEC-1C, APEC-5B
	SS2	0.8-1.4	Silty clay till	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	
	SS4	2.3-2.8	Silty clay till	PHCs, BTEX, VOCs	

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
BH1	152.94	-	155.94	22-Jan-22	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs	APEC-2, APEC-5A
DUP2						
BH2	152.66	-	155.66	22-Jan-22	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs	APEC-5A, APEC-6
BH4	152.25	-	155.25	22-Jan-22	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs	APEC-5A
DUP1						
MW23-9	152.10	-	155.10	30-Jun-23	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs	APEC-2
MW23-17	148.40	-	151.40	30-Jun-23	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs	APEC-5B
DUP1						

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	COPCs	Media	Boreholes Within APEC	Samples Analysed	Parameter Analyzed
APEC-1A	Northeastern portion of the Site #30: Importation of Fill Material of Unknown Origin	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	TP8	TP8-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
APEC-1B	Central portion of the Site #30: Importation of Fill Material of Unknown Origin	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	TP4	TP4-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
					Dup 3 (TP4-1)	PAHs
					TP4-3	pH
APEC-1C	Entire Site #30: Importation of Fill Material of Unknown Origin	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	TP1	TP1-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs, PHCs, BTEX, VOCs
					Dup 1 (TP1-1)	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH
				TP2	TP2-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
					TP2-3	pH
				TP3	TP3-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
					Dup 2 (TP3-1)	PAHs
					TP3-4	pH
				TP4	TP4-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
					Dup 3 (TP4-1)	PAHs
					TP4-3	pH
				TP5	TP5-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
					TP5-4	PHCs, BTEX, VOCs
				TP6	TP6-1	PAHs
					TP6-2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH
					TP6-3	pH

Table 4: Summary of APECs Investigated

APEC	Description	COPCs	Media	Boreholes Within APEC	Samples Analysed	Parameter Analyzed
APEC-1C	Entire Site #30: Importation of Fill Material of Unknown Origin	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	TP7	TP7-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH
					TP7-2	PAHs
					TP7-4	PHCs, BTEX, VOCs
				TP8	TP8-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
				BH23-9	SS1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, OCPs
					SS2	PAHs
					DUP-3	
					SS3	PHCs, BTEX, VOCs
				BH23-10	SS1	OCPs
					DUP-4	
					SS2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
					SS3	PHCs, BTEX, VOCs
				BH23-11	SS2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH
				BH23-12	SS2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH
				BH23-13	SS1	OCPs
					SS2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH
				BH23-14	SS1	OCPs
				BH23-15	SS1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, OCPs
					SS2	PAHs, PHCs, BTEX, VOCs
				BH23-16	SS1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
					SS2	PHCs, BTEX, VOCs

Table 4: Summary of APECs Investigated

APEC	Description	COPCs	Media	Boreholes Within APEC	Samples Analysed	Parameter Analyzed
APEC-1C	Entire Site	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	BH23-17	SS1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, OCPs
					SS2	PAHs
					SS3	PHCs, BTEX, VOCs
					DUP-1	
				BH23-18	SS1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, OCPs
					DUP-2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH
				BH23-19	SS1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, OCPs
					SS2	PAHs
				BH23-20	SS1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, OCPs
					SS3	PHCs, BTEX, VOCs
				BH23-21	SS1	PAHs, OCPs
					SS2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH
					SS4	PHCs, BTEX, VOCs
APEC-1D	Vicinity of former Site Building F, located in the southwestern portion of the Site #30: Importation of Fill Material of Unknown Origin	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	BH23-19	SS1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, OCPs
					SS2	PAHs
APEC-1E	Vicinity of former Site Building G, located in the southern portion of the Site #30: Importation of Fill Material of Unknown Origin	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	BH23-12	SS2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH

Table 4: Summary of APECs Investigated

APEC	Description	COPCs	Media	Boreholes Within APEC	Samples Analysed	Parameter Analyzed
APEC-1F	Vicinity of former Shed 2, located in the southern portion of the Site #30: Importation of Fill Material of Unknown Origin	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	TP1	TP1-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs, PHCs, BTEX, VOCs
					Dup 1 (TP1-1)	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH
APEC-2	Northern portion of the Site #58: Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Groundwater	BH1	BH1	Metals, As, Sb, Se, CN-, Cr (VI), Hg, PHCs, BTEX, VOCs, PAHs
					DUP2	
				MW23-9	MW23-9	Metals, As, Sb, Se, CN-, Cr (VI), Hg, PHCs, BTEX, VOCs, PAHs
APEC-3	Southwestern portion of the Site in the vicinity of former orchard #40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	OCPs	Soil	BH23-10	SS1	OCPs
					DUP-4	
				BH23-13	SS1	OCPs
				BH23-14	SS1	OCPs
				BH23-15	SS1	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs
APEC-4A	Northern portion of the Property in the vicinity of Shed 1 #N/S: Storage of miscellaneous debris, refuse and boats	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	TP5	TP5-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
APEC-4B	Eastern portion of the Site #N/S: Storage of miscellaneous debris and refuse	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	TP6	TP6-1	PAHs
					TP6-2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH
					TP6-3	pH
APEC-4C	Central portion of the Site immediately north of agricultural field #N/S: Storage of miscellaneous debris and refuse	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	TP3	TP3-1	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs
					Dup 2 (TP3-1)	PAHs
					TP3-4	pH

Table 4: Summary of APECs Investigated

APEC	Description	COPCs	Media	Boreholes Within APEC	Samples Analysed	Parameter Analyzed
APEC-4D	Southern portion of the Site immediately south of agricultural field #N/S: Storage of miscellaneous debris and refuse	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil	TP2	TP2-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, pH, PAHs
					TP2-3	pH
APEC-5A	Eastern portion of the Site #N/S: Inferred application of de-icing agents	EC, SAR (Soil) Na, Cl- (Groundwater)	Soil	TP3	TP3-1	EC, SAR
				TP6	TP6-2	EC, SAR
				TP7	TP7-1	EC, SAR
				TP8	TP8-1	EC, SAR
			Groundwater	BH1	BH1	Na, Cl
					DUP2	
				BH2	BH2	Na, Cl
				BH4	BH4	Na, Cl
					DUP1	
APEC-5B	Western portion of the Site #N/S: Inferred application of de-icing agents	EC, SAR (Soil) Na, Cl- (Groundwater)	Soil	BH23-16	SS1	EC, SAR
				BH23-17	SS1	EC, SAR
				BH23-18	SS1	EC, SAR
					DUP-2	EC, SAR
				BH23-20	SS1	EC, SAR
					SS2	EC, SAR

Table 4: Summary of APECs Investigated

APEC	Description	COPCs	Media	Boreholes Within APEC	Samples Analysed	Parameter Analyzed
APEC-5B	Western portion of the Site #N/S: Inferred application of de-icing agents	EC, SAR (Soil) Na, Cl- (Groundwater)	Groundwater	MW23-17	MW23-17	Na, Cl
					DUP1	
APEC-6	Within the Vicinity of Site Building B #27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	PHCs, VOCs, BTEX, Metals, As, Sb, Se, Cr (VI), Hg, low or high pH, PAHs	Soil	TP7	TP7-1	Metals, As, Sb, Se, Cr (VI), Hg, pH
					TP7-2	PAHs
					TP7-4	PHCs, BTEX, VOCs
			Groundwater	BH2	BH2	Metals, As, Sb, Se, Cr (VI), Hg, PHCs, BTEX, VOCs, PAHs

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

Table 5: Summary of Metals and ORPs in Soil

Parameter	MECP Table 2 SCS	TP1-1	TP2-1	TP2-3	TP3-1	TP3-4	TP4-1	TP4-3	TP5-1
Date of Collection		10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22
Date Reported		19-Jan-22	19-Jan-22	19-Jan-22	19-Jan-22	19-Jan-22	19-Jan-22	19-Jan-22	19-Jan-22
Sampling Depth (mbgs)		0-0.7	0-0.8	1.5-2.5	0-0.7	2.2-2.7	0-0.7	1.5-2.2	0-0.7
Analytical Report Reference No.		CA40064-JAN22 9	CA40064-JAN22 10	CA40064-JAN22 11	CA40064-JAN22 12	CA40064-JAN22 13	CA40064-JAN22 14	CA40064-JAN22 15	CA40064-JAN22 16
Antimony	7.5	< 0.8	< 0.8	-	< 0.8	-	< 0.8	-	< 0.8
Arsenic	18	4.4	4.2	-	6.1	-	4.6	-	5.9
Barium	390	95	130	-	120	-	130	-	94
Beryllium	4	0.88	0.77	-	0.87	-	0.76	-	0.8
Boron (total)	120	12	9	-	7	-	8	-	6
Boron (Hot Water Soluble)	1.5	< 0.5	< 0.5	-	< 0.5	-	< 0.5	-	< 0.5
Cadmium	1.2	0.1	0.1	-	0.15	-	0.28	-	0.15
Chromium Total	160	24	23	-	26	-	22	-	23
Chromium VI	8	< 0.2	< 0.2	-	< 0.2	-	< 0.2	-	< 0.2
Cobalt	22	14	13	-	15	-	13	-	13
Copper	140	14	10	-	34	-	16	-	35
Cyanide (CN-)	0.051	< 0.05	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05
Electrical Conductivity (mS/cm)	0.7	0.27	0.21	-	0.25	-	0.19	-	0.17
Lead	120	15	13	-	19	-	18	-	18
Mercury	0.27	< 0.05	< 0.05	-	< 0.05	-	< 0.05	-	< 0.05
Molybdenum	6.9	0.6	0.4	-	0.4	-	0.7	-	0.3
Nickel	100	32	29	-	36	-	26	-	32
Selenium	2.4	< 0.7	< 0.7	-	< 0.7	-	< 0.7	-	< 0.7
Silver	20	< 0.05	< 0.05	-	< 0.05	-	0.09	-	< 0.05
Sodium Adsorption Ratio	5	0.4	0.3	-	0.4	-	0.4	-	0.2
Thallium	1	0.11	0.1	-	0.16	-	0.13	-	0.17
Uranium	23	0.59	0.53	-	0.56	-	0.75	-	0.55
Vanadium	86	30	27	-	32	-	27	-	29
Zinc	340	67	65	-	77	-	75	-	78
pH	NV	7.63	7.65	7.8	7.61	7.76	7.52	7.59	7.71

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

Table 5: Summary of Metals and ORPs in Soil

Parameter	MECP Table 2 SCS	TP6-2	TP7-1	TP8-1	DUP 1 (TP1-1)	BH23-9 SS1	BH23-10 SS2	BH23-11 SS2
Date of Collection		10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	19-Jun-23	20-Jun-23	20-Jun-23
Date Reported		19-Jan-22	19-Jan-22	19-Jan-22	3-Feb-22	29-Jun-23	29-Jun-23	29-Jun-23
Sampling Depth (mbgs)		0.7-1.5	0-0.7	0-0.5	0-0.7	0.1-0.7	0.8-1.4	0.8-1.4
Analytical Report Reference No.		CA40064-JAN22 19	CA40064-JAN22 21	CA40064-JAN22 24	CA40062-FEB22 9	CA40240-JUN23 9	CA40240-JUN23 13	CA40240-JUN23 15
Antimony	7.5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	18	4.9	4.9	6.8	4.1	7.5	4.7	4.9
Barium	390	110	94	140	76	8.2	68	61
Beryllium	4	0.6	0.65	1.1	0.76	0.08	0.7	0.73
Boron (total)	120	8	7	6	9	10	13	14
Boron (Hot Water Soluble)	1.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	1.2	0.11	0.12	0.2	0.12	0.21	0.11	0.1
Chromium Total	160	19	20	28	25	2.4	18	20
Chromium VI	8	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cobalt	22	12	12	17	15	1.4	11	12
Copper	140	27	26	35	12	4.2	16	18
Cyanide (CN-)	0.051	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Electrical Conductivity (mS/cm)	0.7	0.14	0.14	0.2	0.24	0.24	0.13	0.13
Lead	120	11	11	17	14	9.9	10	12
Mercury	0.27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	6.9	0.4	0.3	0.5	0.7	0.8	0.6	0.8
Nickel	100	27	26	37	33	3.4	24	27
Selenium	2.4	< 0.7	< 0.7	< 0.7	< 0.7	< 0.1	< 0.1	< 0.1
Silver	20	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sodium Adsorption Ratio	5	0.3	0.4	0.5	0.2	0.3	0.2	0.2
Thallium	1	0.15	0.15	0.17	0.09	0.04	0.1	0.1
Uranium	23	0.62	0.54	0.67	0.5	0.24	0.5	0.51
Vanadium	86	25	25	35	30	< 3	25	26
Zinc	340	63	68	82	66	63	49	54
pH	NV	7.79	7.77	7.27	7.68	8.38	7.82	7.79

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

Table 5: Summary of Metals and ORPs in Soil

Parameter	MECP Table 2 SCS	BH23-12 SS2	BH23-13 SS2	BH23-15 SS1	BH23-16 SS1	BH23-17 SS1	BH23-18 SS1
Date of Collection		20-Jun-23	20-Jun-23	16-Jun-23	16-Jun-23	16-Jun-23	16-Jun-23
Date Reported		29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23
Sampling Depth (mbgs)		0.8-1.4	0.8-1.4	0.2-0.6	0.2-0.6	0.3-0.6	0-0.6
Analytical Report Reference No.		CA40240-JUN23 16	CA40240-JUN23 18	CA40197-JUN23 9	CA40197-JUN23 11	CA40197-JUN23 13	CA40197-JUN23 16
Antimony	7.5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	18	5.6	5.3	5.9	7	4.4	5.8
Barium	390	82	87	120	89	94	100
Beryllium	4	0.67	0.74	0.95	0.77	0.76	0.89
Boron (total)	120	10	10	8	11	4	8
Boron (Hot Water Soluble)	1.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	1.2	0.1	0.11	0.19	0.24	0.17	0.13
Chromium Total	160	18	20	23	19	21	23
Chromium VI	8	< 0.2	< 0.2	0.3	< 0.2	0.9	< 0.2
Cobalt	22	11	12	13	10	12	13
Copper	140	21	22	27	96	19	29
Cyanide (CN-)	0.051	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Electrical Conductivity (mS/cm)	0.7	0.23	0.19	0.11	0.22	0.19	0.21
Lead	120	9.8	11	19	51	18	15
Mercury	0.27	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	6.9	0.5	0.4	0.6	1.1	0.7	0.6
Nickel	100	25	27	31	23	20	29
Selenium	2.4	< 0.1	0.1	0.2	0.3	0.4	0.2
Silver	20	< 0.05	< 0.05	< 0.05	0.07	< 0.05	< 0.05
Sodium Adsorption Ratio	5	2.3	1.2	0.3	< 0.2	< 0.2	< 0.2
Thallium	1	0.13	0.13	0.18	0.13	0.16	0.19
Uranium	23	0.51	0.5	0.56	0.77	0.59	0.58
Vanadium	86	24	26	31	29	32	30
Zinc	340	52	51	62	79	55	61
pH	NV	7.82	7.52	7.26	7.48	6.87	7.12

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

Table 5: Summary of Metals and ORPs in Soil

Parameter	MECP Table 2 SCS	DUP-2 (BH23-18 SS1)	BH23-19 SS1	BH23-20 SS1	BH23-21 SS1
Date of Collection		16-Jun-23	16-Jun-23	16-Jun-23	16-Jun-23
Date Reported		29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23
Sampling Depth (mbgs)		0-0.6	0.2-0.6	0.2-0.6	0.2-0.6
Analytical Report Reference No.		CA40197-JUN23 25	CA40197-JUN23 17	CA40197-JUN23 19	CA40197-JUN23 22
Antimony	7.5	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	18	8.7	7.4	3.5	5.2
Barium	390	80	49	88	66
Beryllium	4	0.68	0.39	0.58	0.63
Boron (total)	120	9	10	6	10
Boron (Hot Water Soluble)	1.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	1.2	0.23	0.33	0.14	0.1
Chromium Total	160	19	14	18	19
Chromium VI	8	0.3	< 0.2	< 0.2	< 0.2
Cobalt	22	10	6.9	11	12
Copper	140	39	38	18	25
Cyanide (CN-)	0.051	< 0.05	< 0.05	< 0.05	< 0.05
Electrical Conductivity (mS/cm)	0.7	0.24	0.29	0.31	0.18
Lead	120	43	46	18	11
Mercury	0.27	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	6.9	1.1	1.4	0.6	0.5
Nickel	100	22	18	20	25
Selenium	2.4	0.2	0.2	0.2	< 0.1
Silver	20	0.07	0.07	< 0.05	< 0.05
Sodium Adsorption Ratio	5	< 0.2	0.3	< 0.2	0.3
Thallium	1	0.17	0.13	0.13	0.14
Uranium	23	0.53	0.48	0.46	0.55
Vanadium	86	27	25	26	23
Zinc	340	86	100	58	50
pH	NV	7.31	7.72	7.3	7.48

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

Table 6: Summary of PHCs in Soil

Parameter	MECP Table 2 SCS	TP1-1	TP5-4	TP7-4	BH23-9 SS3
Date of Collection		10-Jan-22	10-Jan-22	10-Jan-22	19-Jun-23
Date Reported		19-Jan-22	19-Jan-22	19-Jan-22	29-Jun-23
Sampling Depth (mbgs)		0-0.7	2.2-2.5	2.3-3.1	1.5-2.1
Analytical Report Reference No.		CA40064-JAN22 9	CA40064-JAN22 17	CA40064-JAN22 23	CA40240-JUN23 11
F1 (C6-C10) -BTEX	55	< 10	< 10	< 10	< 10
F2 (C10-C16)	98	< 10	< 10	< 10	< 10
F3 (C16-C34)	300	< 50	< 50	< 50	< 50
F4 (C34-C50)	2800	< 50	< 50	< 50	< 50

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

Table 6: Summary of PHCs in Soil

Parameter	MECP Table 2 SCS	TP1-1	BH23-10 SS3	BH23-15 SS2	BH23-16 SS2
Date of Collection		10-Jan-22	20-Jun-23	16-Jun-23	16-Jun-23
Date Reported		19-Jan-22	29-Jun-23	29-Jun-23	29-Jun-23
Sampling Depth (mbgs)		0-0.7	1.5-1.8	0.8-1.4	0.8-1.4
Analytical Report Reference No.		CA40064-JAN22 9	CA40240-JUN23 14	CA40197-JUN23 10	CA40197-JUN23 12
F1 (C6-C10) -BTEX	55	< 10	< 10	< 10	< 10
F2 (C10-C16)	98	< 10	< 10	< 10	< 10
F3 (C16-C34)	300	< 50	< 50	< 50	< 50
F4 (C34-C50)	2800	< 50	< 50	< 50	< 50

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

Table 6: Summary of PHCs in Soil

Parameter	MECP Table 2 SCS	TP1-1	BH23-17 SS3
Date of Collection		10-Jan-22	16-Jun-23
Date Reported		19-Jan-22	29-Jun-23
Sampling Depth (mbgs)		0-0.7	1.5-2.1
Analytical Report Reference No.		CA40064-JAN22 9	CA40197-JUN23 15
F1 (C6-C10) -BTEX	55	< 10	< 10
F2 (C10-C16)	98	< 10	< 10
F3 (C16-C34)	300	< 50	54
F4 (C34-C50)	2800	< 50	128

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

Table 6: Summary of PHCs in Soil

Parameter	MECP Table 2 SCS	TP1-1	DUP-1	BH23-20 SS3	BH23-21 SS4
Date of Collection		10-Jan-22	16-Jun-23	16-Jun-23	16-Jun-23
Date Reported		19-Jan-22	29-Jun-23	29-Jun-23	29-Jun-23
Sampling Depth (mbgs)		0-0.7	1.5-2.1	1.5-2.1	2.3-2.8
Analytical Report Reference No.		CA40064-JAN22 9	CA40197-JUN23 24	CA40197-JUN23 20	CA40197-JUN23 23
F1 (C6-C10) -BTEX	55	< 10	< 10	< 10	< 10
F2 (C10-C16)	98	< 10	< 10	< 10	< 10
F3 (C16-C34)	300	< 50	< 50	< 50	< 50
F4 (C34-C50)	2800	< 50	124	133	< 50

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

Table 7: Summary of VOCs in Soil

Parameter	MECP Table 2 SCS	TP1-1	TP5-4	TP7-4	BH23-9 SS3
Date of Collection		10-Jan-22	10-Jan-22	10-Jan-22	19-Jun-23
Date Reported		19-Jan-22	19-Jan-22	19-Jan-22	29-Jun-23
Sampling Depth (mbgs)		0-0.7	2.2-2.5	2.3-3.1	1.5-2.1
Analytical Report Reference No.		CA40064-JAN22 9	CA40064-JAN22 17	CA40064-JAN22 23	CA40240-JUN23 11
Tetrachloroethane, 1,1,1,2-	0.058	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethane, 1,1,1-	0.38	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethane, 1,1,2,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethane, 1,1,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethane, 1,1-	0.47	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethylene, 1,1-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,2-	1.2	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethane, 1,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichloropropane, 1,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,3-	4.8	< 0.05	< 0.05	< 0.05	< 0.05
Dichloropropene, 1,3-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,4-	0.083	< 0.05	< 0.05	< 0.05	< 0.05
Acetone	16	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbon Tetrachloride	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlorobenzene	2.4	< 0.05	< 0.05	< 0.05	< 0.05
Chloroform	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethylene, 1,2-cis-	1.9	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethylene, 1,2-trans-	0.084	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorodifluoromethane	16	< 0.05	< 0.05	< 0.05	< 0.05
Ethylene dibromide	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methyl Ethyl Ketone	16	< 0.5	< 0.5	< 0.5	< 0.5
Methyl Isobutyl Ketone	1.7	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-Butyl Ether (MTBE)	0.75	< 0.05	< 0.05	< 0.05	< 0.05
Methylene Chloride	0.1	< 0.05	< 0.05	< 0.05	< 0.05
Hexane (n)	2.8	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	0.7	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethylene	0.28	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethylene	0.061	< 0.05	< 0.05	< 0.05	< 0.05
Trichlorofluoromethane	4	< 0.05	< 0.05	< 0.05	< 0.05
Vinyl Chloride	0.02	< 0.02	< 0.02	< 0.02	< 0.02
Benzene	0.21	< 0.02	< 0.02	< 0.02	< 0.02
Ethylbenzene	1.1	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	2.3	< 0.05	< 0.05	< 0.05	< 0.05
Total Xylene	3.1	< 0.05	< 0.05	< 0.05	< 0.05
Bromodichloromethane	1.5	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	0.27	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	2.3	< 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 7: Summary of VOCs in Soil

Parameter	MECP Table 2 SCS	BH23-10 SS3	BH23-15 SS2	BH23-16 SS2	BH23-17 SS3
Date of Collection		20-Jun-23	16-Jun-23	16-Jun-23	16-Jun-23
Date Reported		29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23
Sampling Depth (mbgs)		1.5-1.8	0.8-1.4	0.8-1.4	1.5-2.1
Analytical Report Reference No.		CA40240-JUN23 14	CA40197-JUN23 10	CA40197-JUN23 12	CA40197-JUN23 15
Tetrachloroethane, 1,1,1,2-	0.058	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethane, 1,1,1-	0.38	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethane, 1,1,2,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethane, 1,1,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethane, 1,1-	0.47	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethylene, 1,1-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,2-	1.2	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethane, 1,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichloropropane, 1,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,3-	4.8	< 0.05	< 0.05	< 0.05	< 0.05
Dichloropropene, 1,3-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,4-	0.083	< 0.05	< 0.05	< 0.05	< 0.05
Acetone	16	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbon Tetrachloride	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlorobenzene	2.4	< 0.05	< 0.05	< 0.05	< 0.05
Chloroform	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethylene, 1,2-cis-	1.9	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethylene, 1,2-trans-	0.084	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorodifluoromethane	16	< 0.05	< 0.05	< 0.05	< 0.05
Ethylene dibromide	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methyl Ethyl Ketone	16	< 0.5	< 0.5	< 0.5	< 0.5
Methyl Isobutyl Ketone	1.7	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-Butyl Ether (MTBE)	0.75	< 0.05	< 0.05	< 0.05	< 0.05
Methylene Chloride	0.1	< 0.05	< 0.05	< 0.05	< 0.05
Hexane (n)	2.8	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	0.7	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethylene	0.28	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethylene	0.061	< 0.05	< 0.05	< 0.05	< 0.05
Trichlorofluoromethane	4	< 0.05	< 0.05	< 0.05	< 0.05
Vinyl Chloride	0.02	< 0.02	< 0.02	< 0.02	< 0.02
Benzene	0.21	< 0.02	< 0.02	< 0.02	< 0.02
Ethylbenzene	1.1	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	2.3	< 0.05	< 0.05	< 0.05	< 0.05
Total Xylene	3.1	< 0.05	< 0.05	< 0.05	< 0.05
Bromodichloromethane	1.5	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	0.27	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	2.3	< 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 7: Summary of VOCs in Soil

Parameter	MECP Table 2 SCS	DUP-1	BH23-20 SS3	BH23-21 SS4
Date of Collection		16-Jun-23	16-Jun-23	16-Jun-23
Date Reported		29-Jun-23	29-Jun-23	29-Jun-23
Sampling Depth (mbgs)		1.5-2.1	1.5-2.1	2.3-2.8
Analytical Report Reference No.		CA40197-JUN23 24	CA40197-JUN23 20	CA40197-JUN23 23
Tetrachloroethane, 1,1,1,2-	0.058	< 0.05	< 0.05	< 0.05
Trichloroethane, 1,1,1-	0.38	< 0.05	< 0.05	< 0.05
Tetrachloroethane, 1,1,2,2-	0.05	< 0.05	< 0.05	< 0.05
Trichloroethane, 1,1,2-	0.05	< 0.05	< 0.05	< 0.05
Dichloroethane, 1,1-	0.47	< 0.05	< 0.05	< 0.05
Dichloroethylene, 1,1-	0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,2-	1.2	< 0.05	< 0.05	< 0.05
Dichloroethane, 1,2-	0.05	< 0.05	< 0.05	< 0.05
Dichloropropane, 1,2-	0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,3-	4.8	< 0.05	< 0.05	< 0.05
Dichloropropene, 1,3-	0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,4-	0.083	< 0.05	< 0.05	< 0.05
Acetone	16	< 0.5	< 0.5	< 0.5
Bromomethane	0.05	< 0.05	< 0.05	< 0.05
Carbon Tetrachloride	0.05	< 0.05	< 0.05	< 0.05
Chlorobenzene	2.4	< 0.05	< 0.05	< 0.05
Chloroform	0.05	< 0.05	< 0.05	< 0.05
Dichloroethylene, 1,2-cis-	1.9	< 0.05	< 0.05	< 0.05
Dichloroethylene, 1,2-trans-	0.084	< 0.05	< 0.05	< 0.05
Dichlorodifluoromethane	16	< 0.05	< 0.05	< 0.05
Ethylene dibromide	0.05	< 0.05	< 0.05	< 0.05
Methyl Ethyl Ketone	16	< 0.5	< 0.5	< 0.5
Methyl Isobutyl Ketone	1.7	< 0.5	< 0.5	< 0.5
Methyl tert-Butyl Ether (MTBE)	0.75	< 0.05	< 0.05	< 0.05
Methylene Chloride	0.1	< 0.05	< 0.05	< 0.05
Hexane (n)	2.8	< 0.05	< 0.05	< 0.05
Styrene	0.7	< 0.05	< 0.05	< 0.05
Tetrachloroethylene	0.28	< 0.05	< 0.05	< 0.05
Trichloroethylene	0.061	< 0.05	< 0.05	< 0.05
Trichlorofluoromethane	4	< 0.05	< 0.05	< 0.05
Vinyl Chloride	0.02	< 0.02	< 0.02	< 0.02
Benzene	0.21	< 0.02	< 0.02	< 0.02
Ethylbenzene	1.1	< 0.05	< 0.05	< 0.05
Toluene	2.3	< 0.05	< 0.05	< 0.05
Total Xylene	3.1	< 0.05	< 0.05	< 0.05
Bromodichloromethane	1.5	< 0.05	< 0.05	< 0.05
Bromoform	0.27	< 0.05	< 0.05	< 0.05
Dibromochloromethane	2.3	< 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 8: Summary of PAHs in Soil

Parameter	MECP Table 2 SCS	TP1-1	TP2-1	TP3-1	TP4-1	TP5-1	TP6-1	TP7-2	TP8-1	DUP 2 (TP3-1)	DUP 3 (TP4-1)
Date of Collection		10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22
Date Reported		19-Jan-22	19-Jan-22	19-Jan-22	19-Jan-22	19-Jan-22	19-Jan-22	19-Jan-22	19-Jan-22	3-Feb-22	3-Feb-22
Sampling Depth (mbgs)		0-0.7	0-0.8	0-0.7	0-0.7	0-0.7	0-0.7	0.7-1.5	0-0.5	0-0.7	0-0.7
Analytical Report Reference No.		CA40064-JAN22 9	CA40064-JAN22 10	CA40064-JAN22 12	CA40064-JAN22 14	CA40064-JAN22 16	CA40064-JAN22 18	CA40064-JAN22 22	CA40064-JAN22 24	CA40062-FEB22 10	CA40062-FEB22 11
Methylnaphthalene, 2-(1-)	0.99	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	7.9	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	0.15	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	0.67	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benz(a)anthracene	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 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	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b+j)fluoranthene	0.78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(g,h,i)perylene	6.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	0.78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	7	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	0.1	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Fluoranthene	0.69	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	62	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	0.38	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Naphthalene	0.6	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	6.2	< 0.05	< 0.05	< 0.05	< 0.05	< 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	< 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 8: Summary of PAHs in Soil

Parameter	MECP Table 2 SCS	BH23-9 SS2	DUP3	BH23-10 SS2	BH23-15 SS2	BH23-16 SS1	BH23-17 SS2	BH23-19 SS2	BH23-21 SS1
Date of Collection		19-Jun-23	19-Jun-23	20-Jun-23	16-Jun-23	16-Jun-23	16-Jun-23	16-Jun-23	16-Jun-23
Date Reported		29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23
Sampling Depth (mbgs)		0.8-1.4	0.8-1.4	0.8-1.4	0.8-1.4	0.2-0.6	0.8-1.4	0.8-1.4	0.2-0.6
Analytical Report Reference No.		CA40240-JUN23 10	CA40240-JUN23 20	CA40240-JUN23 13	CA40197-JUN23 10	CA40197-JUN23 11	CA40197-JUN23 14	CA40197-JUN23 18	CA40197-JUN23 21
Methylnaphthalene, 2-(1-)	0.99	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	7.9	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	0.15	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	0.67	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benz(a)anthracene	0.5	< 0.05	< 0.05	< 0.05	< 0.05	0.12	< 0.05	< 0.05	0.14
Benzo(a)pyrene	0.3	< 0.05	< 0.05	< 0.05	< 0.05	0.14	< 0.05	< 0.05	0.15
Benzo(b+j)fluoranthene	0.78	< 0.05	< 0.05	< 0.05	< 0.05	0.16	< 0.05	< 0.05	0.18
Benzo(g,h,i)perylene	6.6	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
Benzo(k)fluoranthene	0.78	< 0.05	< 0.05	< 0.05	< 0.05	0.06	< 0.05	< 0.05	0.08
Chrysene	7	< 0.05	< 0.05	< 0.05	< 0.05	0.12	< 0.05	< 0.05	0.14
Dibenz(a,h)anthracene	0.1	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Fluoranthene	0.69	< 0.05	< 0.05	< 0.05	< 0.05	0.25	< 0.05	< 0.05	0.32
Fluorene	62	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	0.38	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Naphthalene	0.6	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	6.2	< 0.05	< 0.05	< 0.05	< 0.05	0.12	< 0.05	< 0.05	0.19
Pyrene	78	< 0.05	< 0.05	< 0.05	< 0.05	0.22	< 0.05	< 0.05	0.27

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

Table 9: Summary of OCPs in Soil

Parameter	MECP Table 2 SCS	BH23-9 SS1	BH23-10 SS1	BH23-13 SS1	BH23-14 SS1	DUP-4 (BH23-10 SS1)	BH23-15 SS1	BH23-17 SS1	BH23-18 SS1	BH23-19 SS1
Date of Collection		19-Jun-23	20-Jun-23	20-Jun-23	20-Jun-23	20-Jun-23	16-Jun-23	16-Jun-23	16-Jun-23	16-Jun-23
Date Reported		29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23
Sampling Depth (mbgs)		0.1-0.7	0.3-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.2-0.6	0.3-0.6	0-0.6	0.2-0.6
Analytical Report Reference No.		CA40240-JUN23	CA40240-JUN23	CA40240-JUN23	CA40240-JUN23	CA40240-JUN2321	CA40197-JUN23	CA40197-JUN23	CA40197-JUN23	CA40197-JUN23
Aldrin	0.05	< 0.05	< 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	< 0.05	< 0.05
DDD	3.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDE	0.26	< 0.05	< 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	< 0.05	< 0.05
Dieldrin	0.05	< 0.05	< 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	< 0.04	< 0.04
Endrin	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.056	< 0.01	< 0.01	< 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	< 0.01	< 0.01
Heptachlor Epoxide	0.05	< 0.01	< 0.01	< 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	< 0.01	< 0.01
Hexachlorobutadiene	0.012	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	0.089	< 0.01	< 0.01	< 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	< 0.05	< 0.05

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

Table 9: Summary of OCPs in Soil

Parameter	MECP Table 2 SCS	BH23-20 SS1	BH23-21 SS1
Date of Collection		16-Jun-23	16-Jun-23
Date Reported		29-Jun-23	29-Jun-23
Sampling Depth (mbgs)		0.2-0.6	0.2-0.6
Analytical Report Reference No.		CA40197-JUN23	CA40197-JUN23
Aldrin	0.05	< 0.05	< 0.05
Chlordane	0.05	< 0.05	< 0.05
DDD	3.3	< 0.05	< 0.05
DDE	0.26	< 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-	0.056	< 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	0.012	< 0.01	< 0.01
Hexachloroethane	0.089	< 0.01	< 0.01
Methoxychlor	0.13	< 0.05	< 0.05

Table 10: Summary of Metals and ORPs in Groundwater

Parameter	MECP Table 2 SCS	BH1	BH2	BH4	DUP1 (BH4)	DUP2 (BH1)	MW23-9	MW23-17	DUP1
Date of Collection		22-Jan-22	22-Jan-22	22-Jan-22	22-Jan-22	22-Jan-22	30-Jun-23	30-Jun-23	30-Jun-23
Date Reported		28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	12-Jul-23	12-Jul-23	12-Jul-23
Screen Interval (mbgs)		2.5-5.5	4.1-7.1	3.1-6.1	3.1-6.1	2.5-5.5	3.1-6.1	3.1-6.1	3.1-6.1
Analytical Report Reference No.		RRD592	RRD593	RRD594	RRD595	RRD596	C3J3318	C3J3318	C3J3318
Antimony	6	0.57	0.55	<0.50	<0.50	<0.50	1	<0.50	<0.50
Arsenic	25	<1.0	1.3	1.1	1.1	<1.0	2.3	<1.0	<1.0
Barium	1 000	180	230	140	140	190	150	180	190
Beryllium	4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Boron	5 000	150	150	120	120	140	350	140	130
Cadmium	2.7	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Chromium	50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium VI	25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cobalt	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Copper	87	0.92	<0.90	<0.90	<0.90	<0.90	0.97	1.1	1.4
Lead	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Mercury	0.29	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Molybdenum	70	6.9	5	3	3	6.4	12	1.9	1.8
Nickel	100	<1.0	1.1	<1.0	<1.0	<1.0	1.3	1.7	1.9
Sodium	490 000	420 000	190 000	23 000	23 000	430 000	440 000	310 000	300 000
Selenium	10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	1.5	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Thallium	2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vanadium	6.2	0.57	0.71	0.6	0.51	0.57	0.54	0.58	0.65
Zinc	1 100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9	7.8
Cyanide, Free	66	<1	<1	<1	<1	<1	<1	<1	<1
Chloride	790 000	**900 000**	520 000	30 000	29 000	**900 000**	**810 000**	620 000	650 000
Uranium	20	4.7	5.6	3.7	3.7	4.7	4.1	3.8	3.8

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

Table 11: Summary of PHCs in Groundwater

Parameter	MECP Table 2 SCS	BH1	BH2	BH4	DUP1 (BH4)	DUP2 (BH1)	MW23-9	MW23-17	DUP1
Date of Collection		22-Jan-22	22-Jan-22	22-Jan-22	22-Jan-22	22-Jan-22	30-Jun-23	30-Jun-23	30-Jun-23
Date Reported		28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	12-Jul-23	12-Jul-23	12-Jul-23
Screen Interval (mbgs)		2.5-5.5	4.1-7.1	3.1-6.1	3.1-6.1	2.5-5.5	3.1-6.1	3.1-6.1	3.1-6.1
Analytical Report Reference No.		RRD592	RRD593	RRD594	RRD595	RRD596	C3J3318	C3J3318	C3J3318
F1 (C6-C10)	750	<25	<25	<25	<25	<25	<25	<25	<25
F2 (C10-C16)	150	<100	<100	<100	<100	<100	<100	<100	<100
F3 (C16-C34)	500	<200	<200	<200	<200	<200	<200	<200	<200
F4 (C34-C50)	500	<200	<200	<200	<200	<200	<200	<200	<200

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

Table 12: Summary of VOCs in Groundwater

Parameter	MECP Table 2 SCS	BH1	BH2	BH4	DUP1 (BH4)	DUP2 (BH1)	TRIP BLANK	MW23-9	MW23-17	DUP1	TRIP BLANK
Date of Collection		22-Jan-22	22-Jan-22	22-Jan-22	22-Jan-22	22-Jan-22	22-Jan-22	30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23
Date Reported		28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	12-Jul-23	12-Jul-23	12-Jul-23	12-Jul-23
Screen Interval (mbgs)		2.5-5.5	4.1-7.1	3.1-6.1	3.1-6.1	2.5-5.5	-	3.1-6.1	3.1-6.1	3.1-6.1	-
Analytical Report Reference No.		RRD592	RRD593	RRD594	RRD595	RRD596	RRD596	C3J3318	C3J3318	C3J3318	C3J3318
Acetone	2700	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	5	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Bromodichloromethane	16	<0.50	0.56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	0.79	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	30	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	2.4	0.42	0.52	0.34	0.3	0.45	0.62	1.3	0.66	0.62	0.62
Dibromochloromethane	25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cis-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trans-1,2-Dichloroethylene	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Cis-1,3-Dichloropropylene	NV	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Trans-1,3-Dichloropropylene	NV	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Ethylbenzene	2.4	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylene Dibromide	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Ethyl Ketone	1800	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene Chloride	50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methyl Isobutyl Ketone	640	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-t-Butyl Ether	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1,2-Tetrachloroethane	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2,2-Tetrachloroethane	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	24	<0.20	0.22	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Tetrachloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	200	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	4.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Chloride	0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
m-Xylene & p-Xylene	NV	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
o-Xylene	NV	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Total Xylenes	300	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dichlorodifluoromethane	590	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexane(n)	51	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,3-Dichloropropene (cis + trans)	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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

Table 13: Summary of PAHs in Groundwater

Parameter	MECP Table 2 SCS	BH1	BH2	BH4	DUP1 (BH4)	DUP2 (BH1)	MW23-9	MW23-17	DUP1
Date of Collection		22-Jan-22	22-Jan-22	22-Jan-22	22-Jan-22	22-Jan-22	30-Jun-23	30-Jun-23	30-Jun-23
Date Reported		28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	12-Jul-23	12-Jul-23	12-Jul-23
Screen Interval (mbgs)		2.5-5.5	4.1-7.1	3.1-6.1	3.1-6.1	2.5-5.5	3.1-6.1	3.1-6.1	3.1-6.1
Analytical Report Reference No.		RRD592	RRD593	RRD594	RRD595	RRD596	C3J3318	C3J3318	C3J3318
Acenaphthene	4.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	2.4	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)anthracene	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	0.01	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090
Benzo(b/j)fluoranthene	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(ghi)perylene	0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenzo(a,h)anthracene	0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	0.41	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	120	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-cd)pyrene	0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1-Methylnaphthalene	3.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Methylnaphthalene	3.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Naphthalene	11	<0.050	<0.050	0.07	0.069	<0.050	<0.050	<0.050	<0.050
Phenanthrene	1	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Pyrene	4.1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-(1-)	3.2	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071

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

Table 14: Summary of Maximum Concentrations in Soil

	Parameter	Table 2 Standard	Maximum Concentration	Location
Metals and ORPs	Antimony	7.5	< 0.8	All Samples
	Arsenic	18	6.8	TP8-1
	Barium	390	140	TP8-1
	Beryllium	4	1.1	TP8-1
	Boron (total)	120	12	TP1-1
	Boron (Hot Water Soluble)	1.5	< 0.5	All Samples
	Cadmium	1.2	0.28	TP4-1
	Chromium Total	160	28	TP8-1
	Chromium VI	8	< 0.2	All Samples
	Cobalt	22	17	TP8-1
	Copper	140	35	TP5-1
	Cyanide (CN-)	0.051	< 0.05	All Samples
	Electrical Conductivity (mS/cm)	0.7	0.27	TP1-1
	Lead	120	19	TP3-1
	Mercury	0.27	< 0.05	All Samples
	Molybdenum	6.9	0.7	TP4-1
	Nickel	100	37	TP8-1
	Selenium	2.4	< 0.7	All Samples
	Silver	20	0.09	TP4-1
	Sodium Adsorption Ratio	5	0.5	TP8-1
	Thallium	1	0.17	TP5-1
	Uranium	23	0.75	TP4-1
	Vanadium	86	35	TP8-1
	Zinc	340	82	TP8-1
	pH	NV	7.8	TP2-3
PHCs	Petroleum Hydrocarbons F1	55	< 10	All Samples
	Petroleum Hydrocarbons F2	98	< 10	All Samples
	Petroleum Hydrocarbons F3	300	< 50	All Samples
	Petroleum Hydrocarbons F4	2800	< 50	All Samples
	Benzene	0.21	< 0.02	All Samples
	Ethylbenzene	1.1	< 0.05	All Samples
	Toluene	2.3	< 0.05	All Samples
	Xylene Mixture	3.1	< 0.05	All Samples
VOCs	Tetrachloroethane, 1,1,1,2-	0.058	< 0.05	All Samples
	Trichloroethane, 1,1,1-	0.38	< 0.05	All Samples
	Tetrachloroethane, 1,1,2,2-	0.05	< 0.05	All Samples
	Trichloroethane, 1,1,2-	0.05	< 0.05	All Samples
	Dichloroethane, 1,1-	0.47	< 0.05	All Samples
	Dichloroethylene, 1,1-	0.05	< 0.05	All Samples
	Dichlorobenzene, 1,2-	1.2	< 0.05	All Samples
	Dichloroethane, 1,2-	0.05	< 0.05	All Samples
	Dichloropropane, 1,2-	0.05	< 0.05	All Samples
	Dichlorobenzene, 1,3-	4.8	< 0.05	All Samples
	Dichloropropene, 1,3-	0.05	< 0.05	All Samples
	Dichlorobenzene, 1,4-	0.083	< 0.05	All Samples
	Acetone	16	< 0.5	All Samples
	Bromomethane	0.05	< 0.05	All Samples
	Carbon Tetrachloride	0.05	< 0.05	All Samples
	Chlorobenzene	2.4	< 0.05	All Samples
	Chloroform	0.05	< 0.05	All Samples
	Dichloroethylene, 1,2-cis-	1.9	< 0.05	All Samples
	Dichloroethylene, 1,2-trans-	0.084	< 0.05	All Samples
	Dichlorodifluoromethane	16	< 0.05	All Samples
	Ethylene dibromide	0.05	< 0.05	All Samples
	Methyl Ethyl Ketone	16	< 0.5	All Samples
	Methyl Isobutyl Ketone	1.7	< 0.5	All Samples
	Methyl tert-Butyl Ether (MTBE)	0.75	< 0.05	All Samples
	Methylene Chloride	0.1	< 0.05	All Samples
	Hexane (n)	2.8	< 0.05	All Samples
	Styrene	0.7	< 0.05	All Samples
	Tetrachloroethylene	0.28	< 0.05	All Samples
	Trichloroethylene	0.061	< 0.05	All Samples
	Trichlorofluoromethane	4	< 0.05	All Samples
	Vinyl Chloride	0.02	< 0.02	All Samples
	Bromodichloromethane	1.5	< 0.05	All Samples
	Bromoform	0.27	< 0.05	All Samples
	Dibromochloromethane	2.3	< 0.05	All Samples

Table 14: Summary of Maximum Concentrations in Soil

	Parameter	Table 2 Standard	Maximum Concentration	Location
PAHs	Methylnaphthalene, 2-(1-)	0.99	< 0.05	All Samples
	Acenaphthene	7.9	< 0.05	All Samples
	Acenaphthylene	0.15	< 0.05	All Samples
	Anthracene	0.67	< 0.05	All Samples
	Benz(a)anthracene	0.5	< 0.05	All Samples
	Benzo(a)pyrene	0.3	< 0.05	All Samples
	Benzo(b+j)fluoranthene	0.78	< 0.05	All Samples
	Benzo(g,h,i)perylene	6.6	< 0.1	All Samples
	Benzo(k)fluoranthene	0.78	< 0.05	All Samples
	Chrysene	7	< 0.05	All Samples
	Dibenz(a,h)anthracene	0.1	< 0.06	All Samples
	Fluoranthene	0.69	< 0.05	All Samples
	Fluorene	62	< 0.05	All Samples
	Indeno(1,2,3-cd)pyrene	0.38	< 0.1	All Samples
	Naphthalene	0.6	< 0.05	All Samples
	Phenanthrene	6.2	< 0.05	All Samples
	Pyrene	78	< 0.05	All Samples

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

Table 15: Summary of Maximum Concentrations in Groundwater

	Parameter	Table 2 Standard	Maximum Concentration	Location
Metals and ORPs	Antimony	1.5	0.57	BH1
	Arsenic	13	1.3	BH2
	Barium	610	230	BH2
	Beryllium	0.5	0	All Samples
	Boron	1700	150	BH1
	Cadmium	0.5	0	All Samples
	Chromium	11	0	All Samples
	Chromium VI	25	0	All Samples
	Cobalt	3.8	0	All Samples
	Copper	5	0.92	BH1
	Lead	1.9	0	All Samples
	Mercury	0.1	0	All Samples
	Molybdenum	23	6.9	BH1
	Nickel	14	1.1	BH2
	Sodium	490000	430000	All Samples
	Selenium	5	0	All Samples
	Silver	0.3	0	All Samples
	Thallium	0.5	0	All Samples
	Vanadium	3.9	0.71	BH2
	Zinc	160	0	All Samples
	Cyanide, Free	5	0	All Samples
	Chloride	790 000	**900 000**	BH1
	Uranium	8.9	5.6	BH2
PHCs	F1 (C6-C10)	750	<25	All Samples
	F2 (C10-C16)	150	<100	All Samples
	F3 (C16-C34)	500	<200	All Samples
	F4 (C34-C50)	500	<200	All Samples
VOCs	Acetone	2700	<10	All Samples
	Benzene	5	<0.17	All Samples
	Bromodichloromethane	16	0.56	BH2
	Bromoform	25	<1.0	All Samples
	Bromomethane	0.89	<0.50	All Samples
	Carbon Tetrachloride	0.79	<0.20	All Samples
	Chlorobenzene	30	<0.20	All Samples
	Chloroform	2.4	0.52	BH2
	Dibromochloromethane	25	<0.50	All Samples
	1,2-Dichlorobenzene	3	<0.50	All Samples
	1,3-Dichlorobenzene	59	<0.50	All Samples
	1,4-Dichlorobenzene	1	<0.50	All Samples
	1,1-Dichloroethane	5	<0.20	All Samples
	1,2-Dichloroethane	1.6	<0.50	All Samples
	1,1-Dichloroethylene	1.6	<0.20	All Samples
	Cis-1,2-Dichloroethylene	1.6	<0.50	All Samples
	Trans-1,2-Dichloroethylene	1.6	<0.50	All Samples
	1,2-Dichloropropane	5	<0.20	All Samples
	Cis-1,3-Dichloropropylene	NV	<0.30	All Samples
	Trans-1,3-Dichloropropylene	NV	<0.40	All Samples
	Ethylbenzene	2.4	<0.20	All Samples
	Ethylene Dibromide	0.2	<0.20	All Samples
	Methyl Ethyl Ketone	1800	<10	All Samples
	Methylene Chloride	50	<2.0	All Samples
	Methyl Isobutyl Ketone	640	<5.0	All Samples
	Methyl-t-Butyl Ether	15	<0.50	All Samples
	Styrene	5.4	<0.50	All Samples
	1,1,1,2-Tetrachloroethane	1.1	<0.50	All Samples
	1,1,2,2-Tetrachloroethane	1	<0.50	All Samples
	Toluene	24	0.22	BH2
	Tetrachloroethylene	1.6	<0.20	All Samples
	1,1,1-Trichloroethane	200	<0.20	All Samples
	1,1,2-Trichloroethane	4.7	<0.50	All Samples
	Trichloroethylene	1.6	<0.20	All Samples
	Vinyl Chloride	0.5	<0.20	All Samples
	m-Xylene & p-Xylene	NV	<0.20	All Samples
	o-Xylene	NV	<0.20	All Samples
	Total Xylenes	300	<0.20	All Samples
	Dichlorodifluoromethane	590	<1.0	All Samples
	Hexane(n)	51	<1.0	All Samples
	Trichlorofluoromethane	150	<0.50	All Samples
	1,3-Dichloropropene (cis + trans)	0.5	<0.50	All Samples

	Parameter	Table 2 Standard	Maximum Concentration	Location
PAHs	Acenaphthene	4.1	<0.050	All Samples
	Acenaphthylene	1	<0.050	All Samples
	Anthracene	0.1	<0.050	All Samples
	Benzo(a)anthracene	0.2	<0.050	All Samples
	Benzo(a)pyrene	0.01	<0.0090	All Samples
	Benzo(b/j)fluoranthene	0.1	<0.050	All Samples
	Benzo(ghi)perylene	0.2	<0.050	All Samples
	Benzo(k)fluoranthene	0.1	<0.050	All Samples
	Chrysene	0.1	<0.050	All Samples
	Dibenzo(a,h)anthracene	0.2	<0.050	All Samples
	Fluoranthene	0.4	<0.050	All Samples
	Fluorene	120	<0.050	All Samples
	Indeno(1,2,3-cd)pyrene	0.2	<0.050	All Samples
	1-Methylnaphthalene	2	<0.050	All Samples
	2-Methylnaphthalene	2	<0.050	All Samples
	Naphthalene	7	<0.050	All Samples
	Phenanthrene	0.1	<0.030	All Samples
	Pyrene	0.2	<0.050	All Samples
	Methylnaphthalene, 2-(1-)	2	<0.071	All Samples
	Dichlorodifluoromethane	590	<1.0	All Samples
	Hexane(n)	51	<1.0	All Samples
	Trichlorofluoromethane	150	<0.50	All Samples
	1,3-Dichloropropene (cis + trans)	0.5	<0.50	All Samples

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

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.
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
masl	Meters above sea level
MECP Table 2 SCS	Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional Use with Coarse Grain soils as contained in Table 2 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
Metals and ORPs	Metals and ORPs in Soil: Metals, As, Sb, Se, SAR, pH, EC, Hg, B-HWS, CN-, Cr(VI) Metals and ORPs in Groundwater: Metals, As, Sb, Se, CN-, Cr(VI), Hg, Cl, Na
PAH	Polycyclic Aromatic Hydrocarbons
VOCs	Volatile Organic Compounds
ORPs	Other Regulated Parameters
PHC	Petroleum Hydrocarbons
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

Figures

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 1 - Site Location Plan.qgs Dec-18 14:37

Legend

Property Boundary

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

Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3050 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON.

Title: **SITE LOCATION PLAN**

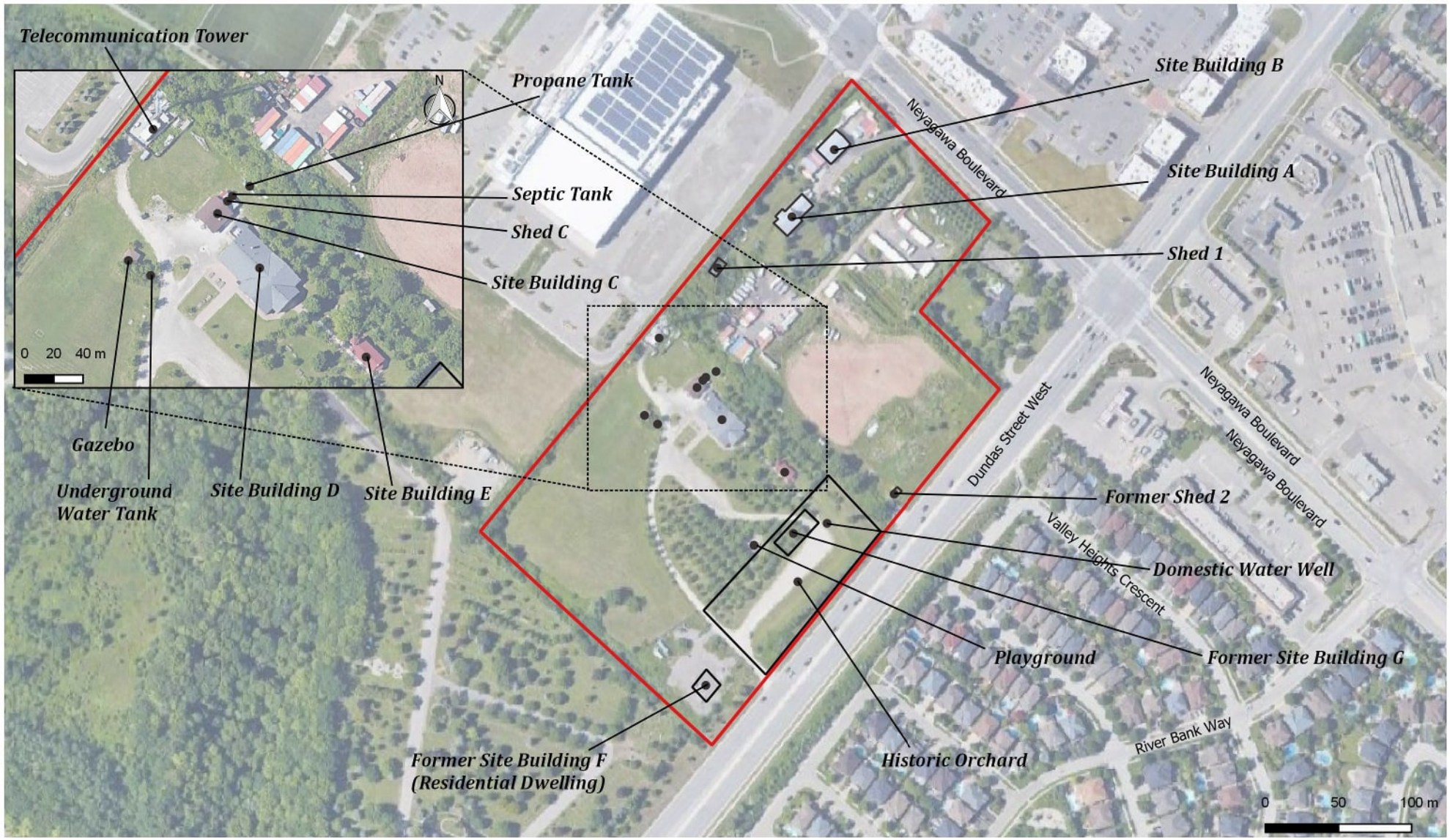
N

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By:	Drawn By:	Date:
8.5 x 11	R.F	P.P	December 2023
Rev: 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: 1

Image/Map Source: *Google Street Map*

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 2 - Phase One Property Site Plan.qgs Dec-18 14:37



Legend

Property Boundary

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

Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON.

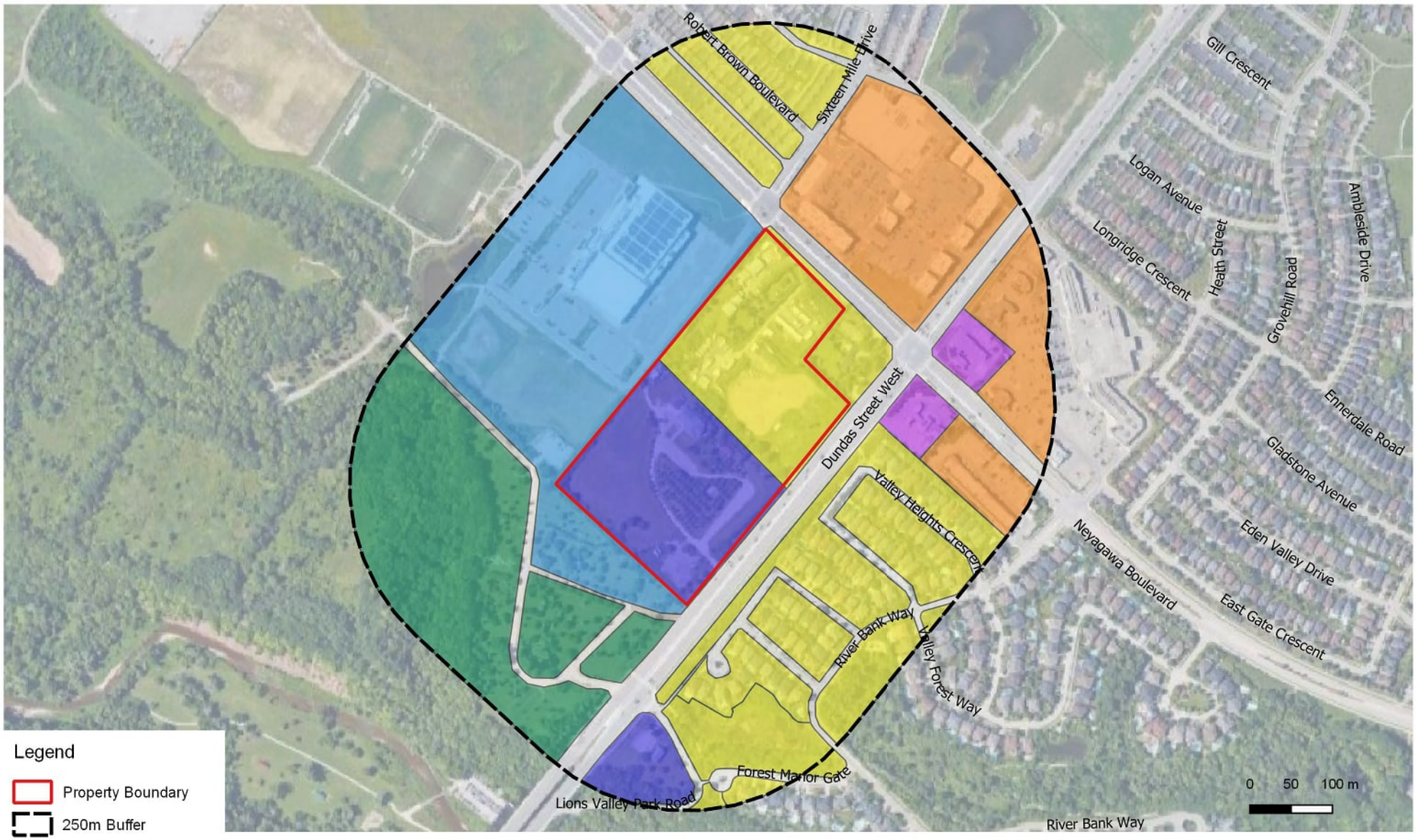
Title: **PHASE ONE PROPERTY SITE PLAN**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By:	Drawn By:	Date:
8.5 x 11	R.F	P.P	December 2023
Rev: 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: 2

Image/Map Source: *Google Satellite Image*

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 3 - Phase One Study Area.qgs May-15 08:44



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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON.

Title: **PHASE ONE STUDY AREA**

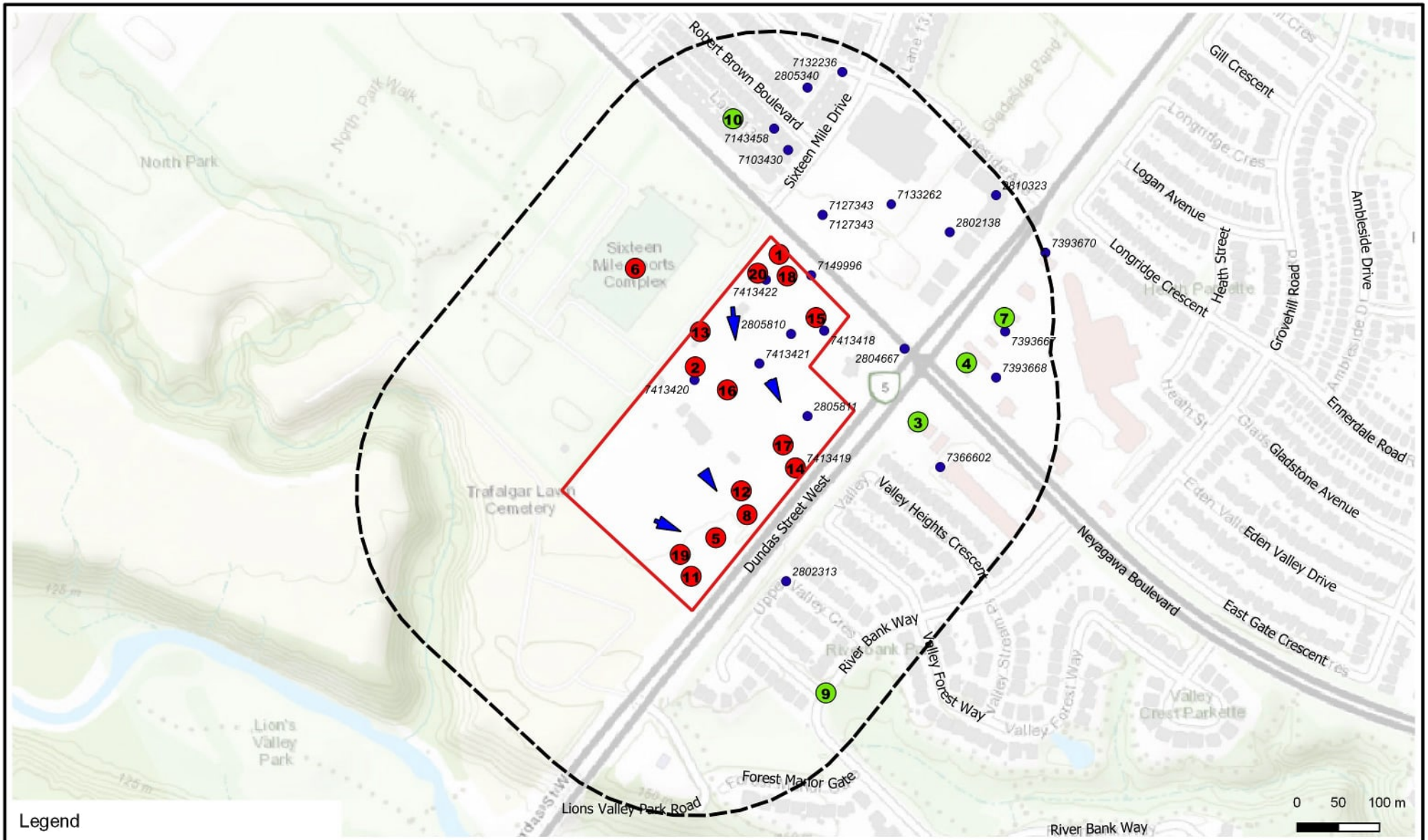
N

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By:	Drawn By:	Date:
8.5 x 11	R.F	P.P	May 2024
Rev: 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: 3

Image/Map Source: *Google Satellite Image*

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 4 - PCAs within Phase One Study Area.qgs Jan-18 13:59



Legend

- Property Boundary
- 250m Buffer
- PCA not contributing to APEC
- PCA contributing to APEC
- Registered Water Well (MECP WWR)
- Interpreted Groundwater Flow Direction

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON.

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

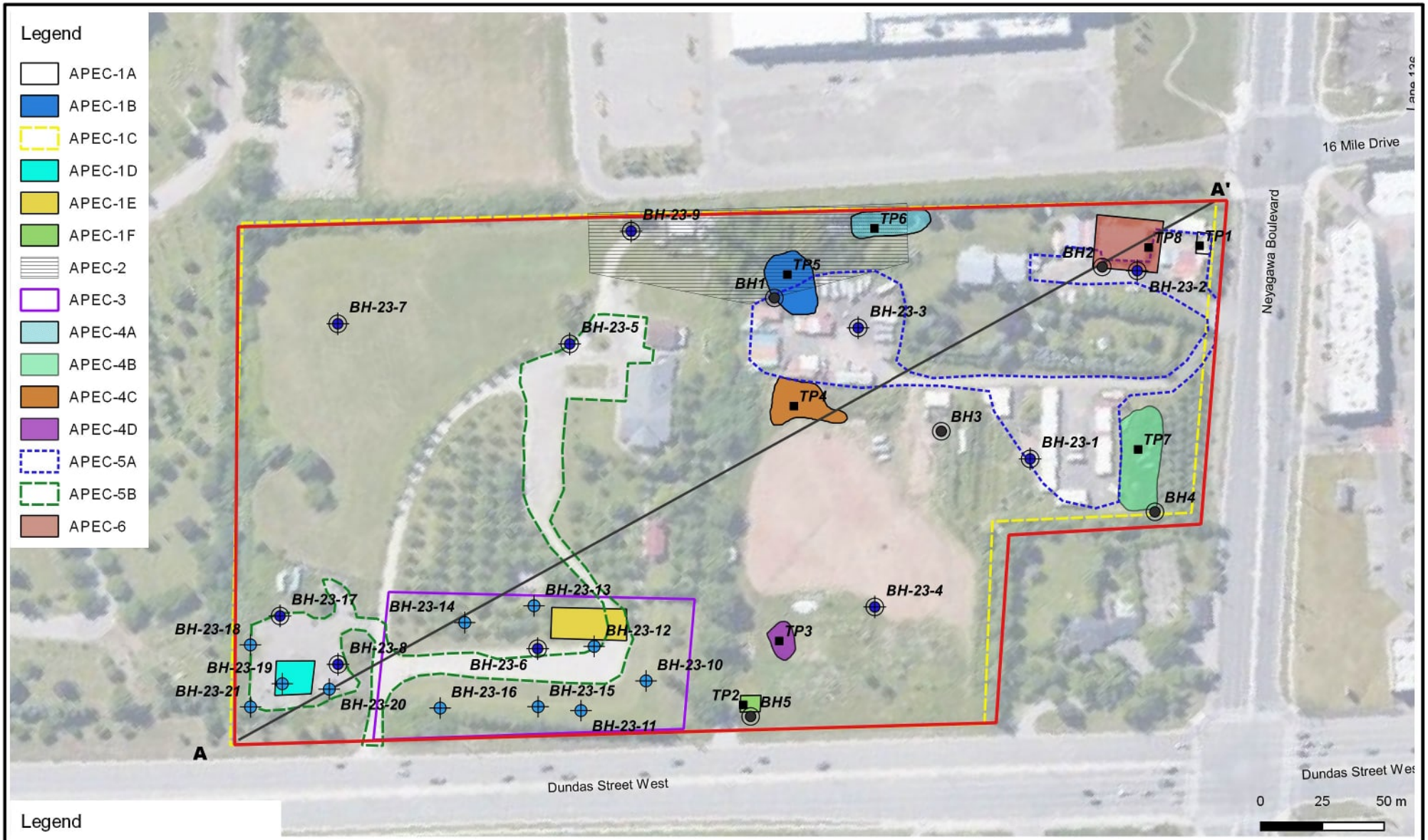
N

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By:	Drawn By:	Date:
8.5 x 11	R.F	P.P	January 2024
Rev: 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: 4

Image/Map Source: *Esri Topo Image*

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 5 - Borehole-Monitoring Well Location Plan with APECs.qgs Apr-22 14:45



Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Cross Section

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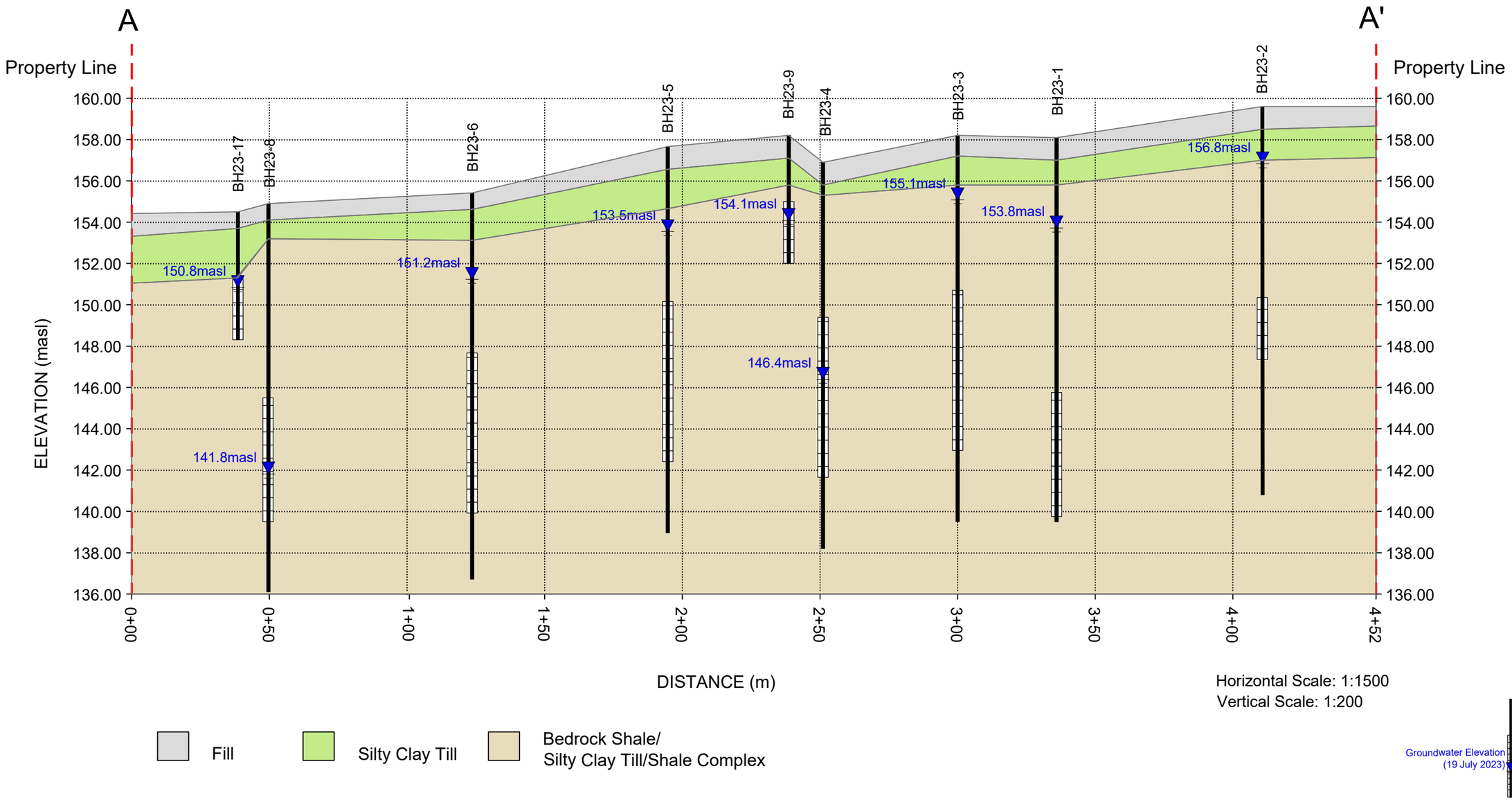
Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON.

Title: **BOREHOLE/MONITORING WELL LOCATION PLAN WITH APECs**

Client: NEATT COMMUNITIES

Size:	Approved By:	Drawn By:	Date:
8.5 x 11	R.F	S.Y / P.P	April 2024
Rev: 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: 5

Image/Map Source: *Google Satellite Image*



Path:j:\-gis\2022 projects\22-012-100 3056 neyagawa blvd., oakville\7-misc\cad\geological cross section 22-012.dwg

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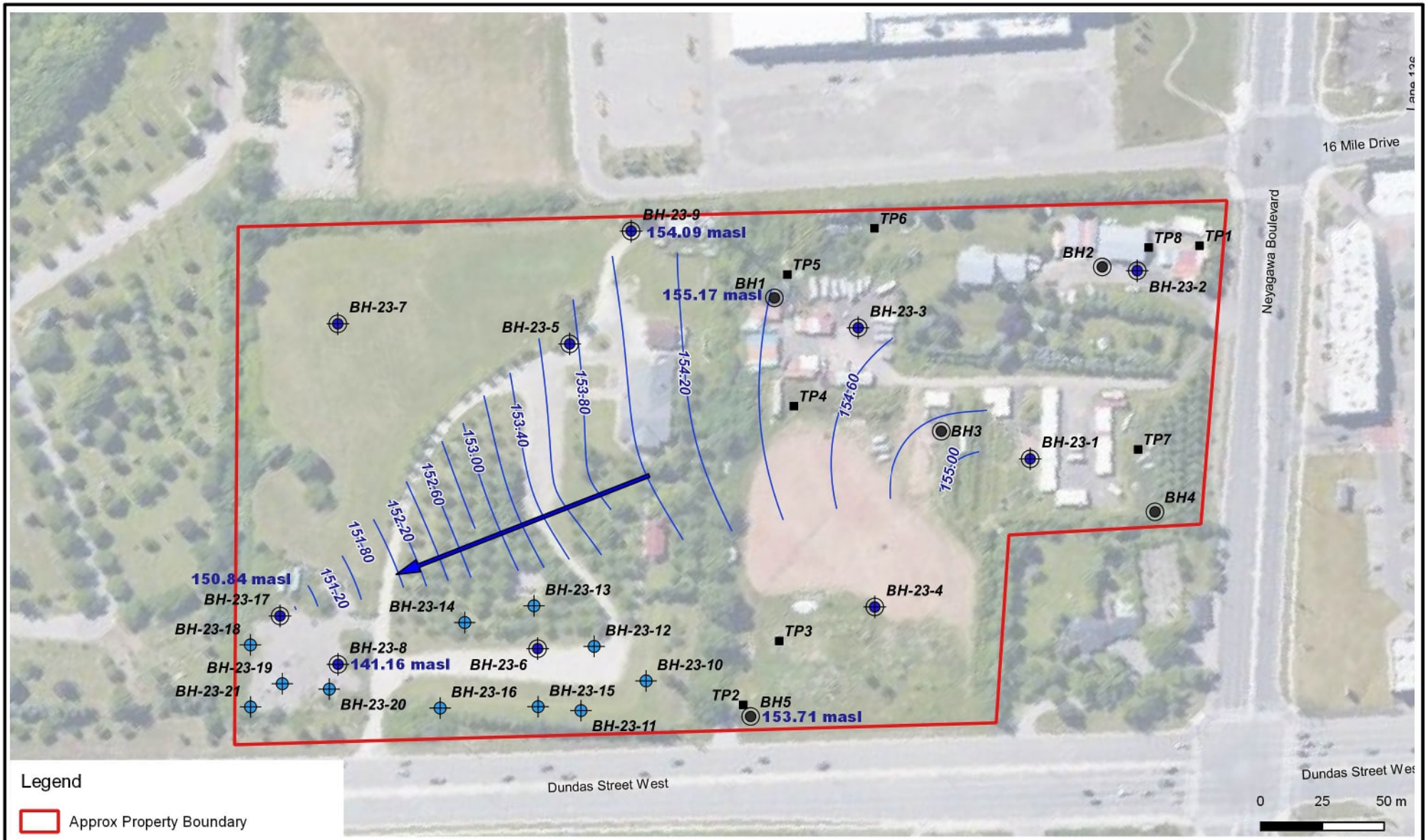
Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **GEOLOGICAL CROSS SECTION A-A'**

Client: NEATT COMMUNITIES

Size:	Approved By:	Drawn By:	Date:
11 X 17	R.F	S.Y	December 2023
Rev.	Scale: As Shown	Project No: 22-012-101	Figure No. **5A**

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 6 - Groundwater Elevation Contours and Flow Direction.qgs Apr-22 14:47



Legend

- Approx Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Groundwater Elevation Contours (July 19, 2023)
- Interpreted Groundwater Flow Direction

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON.

Title: **GROUNDWATER ELEVATION CONTOURS AND FLOW DIRECTION**

Client: NEATT COMMUNITIES

Size:	Approved By:	Drawn By:	Date:
8.5 x 11	R.F	S.Y / P.P	April 2024
Rev: 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: 6

Image/Map Source: *Google Satellite Image*

BH23-9	
Sample ID:	SS1
Sample Date:	19-Jun-23
Sample Depth (mbgs):	0.1-0.7
Metals, As, Sb, Se	Met T2 SCS

TP6	
Sample ID:	TP6-2
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0.7-1.5
Metals, As, Sb, Se	Met T2 SCS

TP8	
Sample ID:	TP8-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.5
Metals, As, Sb, Se	Met T2 SCS

TP5	
Sample ID:	TP5-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.7
Metals, As, Sb, Se	Met T2 SCS

BH23-13	
Sample ID:	SS2
Sample Date:	20-Jun-23
Sample Depth (mbgs):	0.8-1.4
Metals, As, Sb, Se	Met T2 SCS

TP1		
Sample ID:	TP1-1	DUP 1 (TP1-1)
Sample Date:	10-Jan-22	
Sample Depth (mbgs):	0-0.7	
Metals, As, Sb, Se	Met T2 SCS	

BH23-17	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.3-0.6
Metals, As, Sb, Se	Met T2 SCS

TP4	
Sample ID:	TP4-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.7
Metals, As, Sb, Se	Met T2 SCS

BH23-18		
Sample ID:	SS1	DUP-2
Sample Date:	16-Jun-23	
Sample Depth (mbgs):	0-0.6	
Metals, As, Sb, Se	Met T2 SCS	

TP7	
Sample ID:	TP7-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.7
Metals, As, Sb, Se	Met T2 SCS

BH23-19	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
Metals, As, Sb, Se	Met T2 SCS

TP3	
Sample ID:	TP3-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.7
Metals, As, Sb, Se	Met T2 SCS

BH23-21	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
Metals, As, Sb, Se	Met T2 SCS

BH23-12	
Sample ID:	SS2
Sample Date:	20-Jun-23
Sample Depth (mbgs):	0.8-1.4
Metals, As, Sb, Se	Met T2 SCS

BH23-10	
Sample ID:	SS2
Sample Date:	20-Jun-23
Sample Depth (mbgs):	0.8-1.4
Metals, As, Sb, Se	Met T2 SCS

BH23-15	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
Metals, As, Sb, Se	Met T2 SCS

BH23-11	
Sample ID:	SS2
Sample Date:	20-Jun-23
Sample Depth (mbgs):	0.8-1.4
Metals, As, Sb, Se	Met T2 SCS

TP2	
Sample ID:	TP2-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.8
Metals, As, Sb, Se	Met T2 SCS

BH23-20	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
Metals, As, Sb, Se	Met T2 SCS

BH23-16	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
Metals, As, Sb, Se	Met T2 SCS

BH-23-9, TP6, TP8, TP1, TP5, BH2, BH-23-2, BH1, BH-23-7, BH-23-3, BH-23-5, TP4, BH3, BH-23-1, TP7, BH4, BH-23-4, TP3, BH-23-17, BH-23-14, BH-23-13, BH-23-18, BH-23-8, BH-23-12, BH-23-6, BH-23-10, BH-23-19, BH-23-21, BH-23-16, BH-23-15, TP2, BH5, BH-23-20, BH-23-11

Neyagawa Boulev

Lane 135

Lane 1

Dundas Street West

Street West

Gladestone

ns Valley Park Road

0 50 100 m

Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Sample met applicable standards

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3065 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **SOIL CHARACTERIZATION - METALS & HYDRIDE FORMING METALS**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By: R.F	Drawn By: P.P	Date: April 2024
11x17	Scale: As Shown	Project No.: 22-012-101	Figure No.: **7A**
Rev. 0	Image/Map Source: *Google Satellite Image*		

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 7A - Soil Characterization - Metals & Hydride Forming Metals.qgs Apr-22 14:49

BH23-9		
Sample ID:		SS1
Sample Date:		19-Jun-23
Sample Depth (mbgs):		0.1-0.7
SAR	NV	0.3
EC	mS/cm	0.24
pH	NV	8.83
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

TP5		
Sample ID:		TP5-1
Sample Date:		10-Jan-22
Sample Depth (mbgs):		0-0.7
SAR	NV	0.2
EC	mS/cm	0.17
pH	NV	7.71
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

TP6		
Sample ID:		TP6-2
Sample Date:		10-Jan-22
Sample Depth (mbgs):		0.7-1.5
SAR	NV	0.3
EC	mS/cm	0.14
pH	NV	7.79
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

TP8		
Sample ID:		TP8-1
Sample Date:		10-Jan-22
Sample Depth (mbgs):		0-0.5
SAR	NV	0.5
EC	mS/cm	0.2
pH	NV	7.27
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

BH23-13		
Sample ID:		SS2
Sample Date:		20-Jun-23
Sample Depth (mbgs):		0.8-1.4
SAR	NV	1.2
EC	mS/cm	0.19
pH	NV	7.52
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

TP1			
Sample ID:		TP1-1	DUP 1 (TP1-1)
Sample Date:		10-Jan-22	10-Jan-22
Sample Depth (mbgs):		0-0.7	0-0.7
SAR	NV	0.4	0.2
EC	mS/cm	0.27	0.24
pH	NV	7.63	7.68
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS	

BH23-17		
Sample ID:		SS1
Sample Date:		16-Jun-23
Sample Depth (mbgs):		0.3-0.6
SAR	NV	<0.2
EC	mS/cm	0.19
pH	NV	6.87
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

TP4			
Sample ID:		TP4-1	TP4-3
Sample Date:		10-Jan-22	
Sample Depth (mbgs):		0-0.7	1.5-2.2
SAR	NV	0.4	-
EC	mS/cm	0.19	-
pH	NV	7.52	7.59
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS	-

BH23-18			
Sample ID:		SS1	DUP-2
Sample Date:		16-Jun-23	
Sample Depth (mbgs):		0-0.6	
SAR	NV	<0.2	<0.2
EC	mS/cm	0.21	0.24
pH	NV	7.12	7.31
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS	

TP7		
Sample ID:		TP7-1
Sample Date:		10-Jan-22
Sample Depth (mbgs):		0-0.7
SAR	NV	0.4
EC	mS/cm	0.14
pH	NV	7.77
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

BH23-19		
Sample ID:		SS1
Sample Date:		16-Jun-23
Sample Depth (mbgs):		0.2-0.6
SAR	NV	0.3
EC	mS/cm	0.29
pH	NV	7.72
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

TP3			
Sample ID:		TP3-1	TP3-4
Sample Date:		10-Jan-22	
Sample Depth (mbgs):		0-0.7	2.2-2.7
SAR	NV	0.4	-
EC	mS/cm	0.25	-
pH	NV	7.61	7.76
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS	-

BH23-12		
Sample ID:		SS2
Sample Date:		20-Jun-23
Sample Depth (mbgs):		0.8-1.4
SAR	NV	2.3
EC	mS/cm	0.23
pH	NV	7.82
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

BH23-21		
Sample ID:		SS1
Sample Date:		16-Jun-23
Sample Depth (mbgs):		0.2-0.6
SAR	NV	0.3
EC	mS/cm	0.18
pH	NV	7.48
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

BH23-10		
Sample ID:		SS2
Sample Date:		20-Jun-23
Sample Depth (mbgs):		0.8-1.4
SAR	NV	0.2
EC	mS/cm	0.13
pH	NV	7.82
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

TP2			
Sample ID:		TP2-1	TP2-3
Sample Date:		10-Jan-22	
Sample Depth (mbgs):		0-0.7	1.5-2.5
SAR	NV	0.4	-
EC	mS/cm	0.27	-
pH	NV	7.63	7.8
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS	-

BH23-15		
Sample ID:		SS1
Sample Date:		16-Jun-23
Sample Depth (mbgs):		0.2-0.6
SAR	NV	0.3
EC	mS/cm	0.11
pH	NV	7.26
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

BH23-11		
Sample ID:		SS2
Sample Date:		20-Jun-23
Sample Depth (mbgs):		0.8-1.4
SAR	NV	0.2
EC	mS/cm	0.13
pH	NV	7.79
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

BH23-20		
Sample ID:		SS1
Sample Date:		16-Jun-23
Sample Depth (mbgs):		0.2-0.6
SAR	NV	<0.2
EC	mS/cm	0.31
pH	NV	7.3
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

BH23-16		
Sample ID:		SS1
Sample Date:		16-Jun-23
Sample Depth (mbgs):		0.2-0.6
SAR	NV	<0.2
EC	mS/cm	0.22
pH	NV	7.48
B-HWS, CN-, Cr(VI), Hg	-	Met T2 SCS

BH-23-9, BH-23-7, BH-23-5, BH-23-17, BH-23-18, BH-23-19, BH-23-21, BH-23-8, BH-23-14, BH-23-13, BH-23-12, BH-23-6, BH-23-10, BH-23-4, BH-23-16, BH-23-15, BH-23-11, BH-23-20, BH-23-3, BH-23-2, BH-23-1, TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, BH1, BH2, BH3, BH4, BH5

Dundas Street West

16 Mile Drive

Lane 135

Robert Brown Bc

Neyagawa

Lane 1

Gladestu

Valley Park Road

0 50 100 m

Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Sample met applicable standards

Parameter	Table 2 SCS
Sodium Adsorption Ratio (SAR)	5
Electrical Conductivity (EC)	0.7
Parameter	**O. Reg. 153/04 Section 41**
pH (Surface Soil)	5 to 9
pH (Sub-surface Soil)	5 to 11

*Parameter deemed not exceeded under Section 49.1 (1) of O. Reg. 153/04

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3065 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **SOIL CHARACTERIZATION - ORPs**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By: R.F	Drawn By: P.P	Date: May 2024
11x17	Scale: As Shown	Project No.: 22-012-101	Figure No.: **7B**
Rev. 0	Image/Map Source: *Google Satellite Image*		

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 7B - Soil Characterization - ORPs.qgs May-15 08:46

BH23-9	
Sample ID:	SS3
Sample Date:	19-Jun-23
Sample Depth (mbgs):	1.5-2.1
PHCs (incl. BTEX)	Met T2 SCS

TP5	
Sample ID:	TP5-4
Sample Date:	10-Jan-22
Sample Depth (mbgs):	2.2-2.5
PHCs (incl. BTEX)	Met T2 SCS

TP1	
Sample ID:	TP1-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.7
PHCs (incl. BTEX)	Met T2 SCS

BH23-17		
Sample ID:	SS3	DUP-1
Sample Date:	16-Jun-23	
Sample Depth (mbgs):	1.5-2.1	
PHCs (incl. BTEX)	Met T2 SCS	

TP7	
Sample ID:	TP7-4
Sample Date:	10-Jan-22
Sample Depth (mbgs):	2.3-3.1
PHCs (incl. BTEX)	Met T2 SCS

BH23-21	
Sample ID:	SS4
Sample Date:	16-Jun-23
Sample Depth (mbgs):	2.3-2.8
PHCs (incl. BTEX)	Met T2 SCS

BH23-10	
Sample ID:	SS3
Sample Date:	20-Jun-23
Sample Depth (mbgs):	1.5-1.8
PHCs (incl. BTEX)	Met T2 SCS

BH23-15	
Sample ID:	SS2
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.8-1.4
PHCs (incl. BTEX)	Met T2 SCS

BH23-20	
Sample ID:	SS3
Sample Date:	16-Jun-23
Sample Depth (mbgs):	1.5-2.1
PHCs (incl. BTEX)	Met T2 SCS

BH23-16	
Sample ID:	SS2
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.8-1.4
PHCs (incl. BTEX)	Met T2 SCS

Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Sample met applicable standards

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Vaughan, Ontario L4H 0K8
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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3065 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **SOIL CHARACTERIZATION - PHCs INCLUDING BTEX**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By: R.F	Drawn By: P.P	Date: April 2024
11x17	Scale: As Shown	Project No.: 22-012-101	Figure No.: **7C**
Rev. 0	Image/Map Source: *Google Satellite Image*		

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 7C - Soil Characterization - PHCs including BTEX.qgs Apr-22 14:51

BH23-9	
Sample ID:	SS3
Sample Date:	19-Jun-23
Sample Depth (mbgs):	1.5-2.1
VOCs	Met T2 SCS

TP5	
Sample ID:	TP5-4
Sample Date:	10-Jan-22
Sample Depth (mbgs):	2.2-2.5
VOCs	Met T2 SCS

TP1	
Sample ID:	TP1-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.7
VOCs	Met T2 SCS

BH23-17		
Sample ID:	SS3	DUP-1
Sample Date:	16-Jun-23	
Sample Depth (mbgs):	1.5-2.1	
VOCs	Met T2 SCS	

TP7	
Sample ID:	TP7-4
Sample Date:	10-Jan-22
Sample Depth (mbgs):	2.3-3.1
VOCs	Met T2 SCS

BH23-21	
Sample ID:	SS4
Sample Date:	16-Jun-23
Sample Depth (mbgs):	2.3-2.8
VOCs	Met T2 SCS

BH23-10	
Sample ID:	SS3
Sample Date:	20-Jun-23
Sample Depth (mbgs):	1.5-1.8
VOCs	Met T2 SCS

BH23-20	
Sample ID:	SS3
Sample Date:	16-Jun-23
Sample Depth (mbgs):	1.5-2.1
VOCs	Met T2 SCS

BH23-15	
Sample ID:	SS2
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.8-1.4
VOCs	Met T2 SCS

BH23-16	
Sample ID:	SS2
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.8-1.4
VOCs	Met T2 SCS

BH-23-9 BH-23-7 BH-23-5 BH-23-17 BH-23-14 BH-23-13 BH-23-18 BH-23-8 BH-23-12 BH-23-19 BH-23-6 BH-23-10 BH-23-21 BH-23-20 BH-23-16 BH-23-15 BH-23-11 BH-23-4 BH-23-3 BH-23-2 BH-23-1 TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 BH1 BH2 BH3 BH4 BH5

Neyagawa Boulevard
Robert Brown Bc
Lane 135
Lane 1
16 Mile Drive
Dundas Street West
Dundas Street West
ons Valley Park Road
0 50 100 m

Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Sample met applicable standards

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

Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3065 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **SOIL CHARACTERIZATION - VOCs**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By: R.F	Drawn By: P.P	Date: December 2023
11x17	Scale: As Shown	Project No.: 22-012-101	Figure No.: **7D**
Rev. 0	Image/Map Source: *Google Satellite Image*		

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 7D - Soil Characterization - VOCs.qgs Dec-18 13:34

BH23-9		
Sample ID:	SS2	DUP3
Sample Date:	19-Jun-23	
Sample Depth (mbgs):	0.8-1.4	
PAHs	Met T2 SCS	

TP6	
Sample ID:	TP6-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.7
PAHs	Met T2 SCS

TP5	
Sample ID:	TP5-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.7
PAHs	Met T2 SCS

TP8	
Sample ID:	TP8-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.5
PAHs	Met T2 SCS

TP4		
Sample ID:	TP4-1	DUP 3 (TP4-1)
Sample Date:	10-Jan-22	
Sample Depth (mbgs):	0-0.7	
PAHs	Met T2 SCS	

TP1	
Sample ID:	TP1-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.7
PAHs	Met T2 SCS

BH23-17	
Sample ID:	SS2
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.8-1.4
PAHs	Met T2 SCS

TP7	
Sample ID:	TP7-2
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0.7-1.5
PAHs	Met T2 SCS

BH23-19	
Sample ID:	SS2
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.8-1.4
PAHs	Met T2 SCS

TP3		
Sample ID:	TP3-1	DUP 2 (TP3-1)
Sample Date:	10-Jan-22	
Sample Depth (mbgs):	0-0.7	
PAHs	Met T2 SCS	

BH23-21	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
PAHs	Met T2 SCS

BH23-10	
Sample ID:	SS2
Sample Date:	20-Jun-23
Sample Depth (mbgs):	0.8-1.4
PAHs	Met T2 SCS

BH23-15	
Sample ID:	SS2
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.8-1.4
PAHs	Met T2 SCS

TP2	
Sample ID:	TP2-1
Sample Date:	10-Jan-22
Sample Depth (mbgs):	0-0.8
PAHs	Met T2 SCS

BH23-16	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
PAHs	Met T2 SCS

BH-23-9 TP6 TP5 TP8 TP1 BH2 BH-23-2 BH1 BH-23-7 BH-23-5 BH-23-3 TP4 BH3 BH-23-1 TP7 BH4 BH-23-17 BH-23-14 BH-23-13 BH-23-4 BH-23-18 BH-23-8 BH-23-12 TP3 BH-23-19 BH-23-6 BH-23-10 BH-23-21 BH-23-16 BH-23-15 TP2 BH5 BH-23-20 BH-23-11

Neyagawa Boulevard Robert Brown Bc Lane 135 Lane 1 16 Mile Drive Gladestu Street West Dundas Street West Zamuner Court Upper Valley Crescent Valley Heights Crescent ns Valley Park Road

0 50 100 m

Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Sample met applicable standards

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3065 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **SOIL CHARACTERIZATION - PAHs**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By: R.F	Drawn By: P.P	Date: December 2023
11x17	Scale: As Shown	Project No.: 22-012-101	Figure No.: **7E**
Rev. 0	Image/Map Source: *Google Satellite Image*		

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 7E - Soil Characterization - PAHs.qgs Dec-18 13:41

BH23-9	
Sample ID:	SS1
Sample Date:	19-Jun-23
Sample Depth (mbgs):	0.1-0.7
OCPs	Met T2 SCS

BH23-17	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.3-0.6
OCPs	Met T2 SCS

BH23-18	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0-0.6
OCPs	Met T2 SCS

BH23-19	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
OCPs	Met T2 SCS

BH23-21	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
OCPs	Met T2 SCS

BH23-20	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
OCPs	Met T2 SCS

BH23-15	
Sample ID:	SS1
Sample Date:	16-Jun-23
Sample Depth (mbgs):	0.2-0.6
OCPs	Met T2 SCS

BH23-13	
Sample ID:	SS1
Sample Date:	20-Jun-23
Sample Depth (mbgs):	0.2-0.6
OCPs	Met T2 SCS

BH23-14		
Sample ID:	SS1	DUP-4
Sample Date:	20-Jun-23	
Sample Depth (mbgs):	0.2-0.6	
OCPs	Met T2 SCS	

BH23-10	
Sample ID:	SS1
Sample Date:	20-Jun-23
Sample Depth (mbgs):	0.3-0.6
OCPs	Met T2 SCS

BH-23-9, BH-23-7, BH-23-5, BH-23-17, BH-23-18, BH-23-19, BH-23-21, BH-23-20, BH-23-8, BH-23-14, BH-23-13, BH-23-12, BH-23-6, BH-23-16, BH-23-15, BH-23-11, BH-23-4, BH-23-3, BH-23-2, BH-23-1, BH-23-10, TP6, TP5, TP8, TP1, TP4, TP7, TP3, TP2, BH1, BH2, BH3, BH4, BH5

Neyagawa Boulevard, Robert Brown Bc, Lane 135, Lane 1, 16 Mile Drive, Dundas Street West, Upper Valley Crescent, Street West, ights Crescent, ns Valley Park Road

0 50 100 m

Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Sample met applicable standards

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3065 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **SOIL CHARACTERIZATION - OCPs**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By:	Drawn By:	Date:
11x17	R.F	P.P	December 2023
Rev. 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: **7F**

Image/Map Source: *Google Satellite Image*

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 7F - Soil Characterization - OCPs.qgs Dec-18 13:46

BH23-9	
Sample ID:	**MW22-9**
Sample Date:	**30-Jun-23**
Screen Depth (mbgs):	3.1-6.1
Metals, As, Sb, Se	Met T2 SCS

BH1		
Sample ID:	**BH1**	**DUP 2 (BH1)**
Sample Date:	10-Jan-22	
Screen Depth (mbgs):	2.5-5.5	
Metals, As, Sb, Se	Met T2 SCS	

BH2	
Sample ID:	**BH2**
Sample Date:	**10-Jan-22**
Screen Depth (mbgs):	4.1-7.1
Metals, As, Sb, Se	Met T2 SCS

BH23-17		
Sample ID:	**MW22-17**	**DUP1**
Sample Date:	30-Jun-23	
Screen Depth (mbgs):	3.1-6.1	
Metals, As, Sb, Se	Met T2 SCS	

BH4		
Sample ID:	**BH4**	**DUP 1 (BH4)**
Sample Date:	10-Jan-22	
Screen Depth (mbgs):	3.1-6.1	
Metals, As, Sb, Se	Met T2 SCS	

BH-23-9, BH-23-17, BH-23-14, BH-23-13, BH-23-4, BH-23-18, BH-23-8, BH-23-12, TP3, BH-23-19, BH-23-6, BH-23-10, BH-23-21, BH-23-20, BH-23-16, BH-23-15, TP2, BH5, BH-23-11, TP6, TP8, TP1, BH2, TP5, BH1, BH-23-2, BH-23-7, BH-23-5, BH-23-3, TP4, BH3, BH-23-1, TP7, BH4

Neyagawa Boulevard, Robert Brown Bc, Lane 135, Lane 1, 16 Mile Drive, Gladestu, Dundas Street West, Zamuner Court, Upper Valley Crescent, Valley Heights Crescent, ons Valley Park Road

0 50 100 m

Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Sample met applicable standards

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3065 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **GROUNDWATER CHARACTERIZATION - METALS & HYDRIDE FORMING METALS**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By:	Drawn By:	Date:
11x17	R.F	P.P	April 2024
Rev. 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: **8A**

Image/Map Source: *Google Satellite Image*

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 8A - Groundwater Characterization - Metals & Hydride Forming Metals.qgs Apr-22 14:54

BH23-9		
Sample ID:		**MW22-9**
Sample Date:		**30-Jun-23**
Screen Depth (mbgs):		3.1-6.1
Chloride	ug/L	**810000***
Sodium	ug/L	440000
CN-, Cr(VI), Hg	-	Met T2 SCS

BH1			
Sample ID:		**BH1**	**DUP 2 (BH1)**
Sample Date:		10-Jan-22	
Screen Depth (mbgs):		2.5-5.5	
Chloride	ug/L	**900000***	**900000***
Sodium	ug/L	420000	430000
CN-, Cr(VI), Hg	-	Met T2 SCS	

BH2		
Sample ID:		**BH2**
Sample Date:		**10-Jan-22**
Screen Depth (mbgs):		4.1-7.1
Chloride	ug/L	520000
Sodium	ug/L	190000
CN-, Cr(VI), Hg	-	Met T2 SCS

BH23-17			
Sample ID:		**MW22-17**	**DUP1**
Sample Date:		30-Jun-23	
Screen Depth (mbgs):		3.1-6.1	
Chloride	ug/L	620000	650000
Sodium	ug/L	310000	300000
CN-, Cr(VI), Hg	-	Met T2 SCS	

BH4			
Sample ID:		**BH4**	**DUP 1 (BH4)**
Sample Date:		10-Jan-22	
Screen Depth (mbgs):		3.1-6.1	
Chloride	ug/L	30000	29000
Sodium	ug/L	23000	23000
CN-, Cr(VI), Hg	-	Met T2 SCS	

BH-23-9, BH-23-7, BH-23-5, BH-23-17, BH-23-18, BH-23-19, BH-23-21, BH-23-14, BH-23-13, BH-23-8, BH-23-20, BH-23-16, BH-23-6, BH-23-15, BH-23-12, BH-23-11, BH-23-10, BH-23-4, BH-23-3, BH-23-2, BH-23-1, BH1, BH2, BH3, BH4, BH5, TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8

Neyagawa Boulevard, Robert Brown Bc, Lane 135, Lane 1, 16 Mile Drive, Gladestu, Dundas Street West, Zamuner Court, Upper Valley Crescent, Valley Heights Crescent, ns Valley Park Road

0 50 100 m

Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Sample met applicable standards

Parameter	Table 2 SCS
Chloride	790000
Sodium	490000

***Parameter deemed not exceeded under Section 49.1 (1) of O. Reg. 153/04**

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3065 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **GROUNDWATER CHARACTERIZATION - ORPs**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By:	Drawn By:	Date:
11x17	R.F	P.P	May 2024
Rev. 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: **8B**

Image/Map Source: *Google Satellite Image*

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 8B - Groundwater Characterization - ORPs.qgs May-15 08:47

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 8C - Groundwater Characterization - PHCs Including BTEX.qgs Apr-22 14:57

BH23-9	
Sample ID:	MW22-9
Sample Date:	30-Jun-23
Screen Depth (mbgs):	3.1-6.1
PHCs (incl. BTEX)	Met T2 SCS

BH1		
Sample ID:	BH1	DUP 2 (BH1)
Sample Date:	10-Jan-22	
Screen Depth (mbgs):	2.5-5.5	
PHCs (incl. BTEX)	Met T2 SCS	

BH2	
Sample ID:	BH2
Sample Date:	10-Jan-22
Screen Depth (mbgs):	4.1-7.1
PHCs (incl. BTEX)	Met T2 SCS

BH23-17		
Sample ID:	MW22-17	DUP1
Sample Date:	30-Jun-23	
Screen Depth (mbgs):	3.1-6.1	
PHCs (incl. BTEX)	Met T2 SCS	

BH4		
Sample ID:	BH1	DUP 1 (BH4)
Sample Date:	10-Jan-22	
Screen Depth (mbgs):	3.1-6.1	
PHCs (incl. BTEX)	Met T2 SCS	

BH-23-9, BH-23-7, BH-23-5, BH-23-3, BH-23-2, BH-23-1, BH-23-17, BH-23-14, BH-23-13, BH-23-4, BH-23-18, BH-23-8, BH-23-12, BH-23-19, BH-23-6, BH-23-10, BH-23-21, BH-23-20, BH-23-16, BH-23-15, BH-23-11, TP6, TP8, TP1, TP5, TP4, TP7, TP3, TP2, BH1, BH2, BH3, BH4, BH5

Neyagawa Boulevard, Robert Brown Bc, Lane 135, Lane 1, 16 Mile Drive, Gladestu, Dundas Street West, Zamuner Court, Upper Valley Crescent, Valley Heights Crescent, ns Valley Park Road

0 50 100 m

Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Sample met applicable standards

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3065 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **GROUNDWATER CHARACTERIZATION - PHCs Including BTEX**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By:	Drawn By:	Date:
11x17	R.F	P.P	April 2024
Rev. 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: **8C**

Image/Map Source: *Google Satellite Image*

BH23-9	
Sample ID:	MW22-9
Sample Date:	30-Jun-23
Screen Depth (mbgs):	3.1-6.1
VOCs	Met T2 SCS

BH1		
Sample ID:	BH1	DUP 2 (BH1)
Sample Date:	10-Jan-22	
Screen Depth (mbgs):	2.5-5.5	
VOCs	Met T2 SCS	

BH2	
Sample ID:	BH2
Sample Date:	10-Jan-22
Screen Depth (mbgs):	4.1-7.1
VOCs	Met T2 SCS

BH23-17		
Sample ID:	MW22-17	DUP1
Sample Date:	30-Jun-23	
Screen Depth (mbgs):	3.1-6.1	
VOCs	Met T2 SCS	

BH4		
Sample ID:	BH1	DUP 1 (BH4)
Sample Date:	10-Jan-22	
Screen Depth (mbgs):	3.1-6.1	
VOCs	Met T2 SCS	

BH-23-9, TP6, TP8, TP1, BH2, TP5, BH1, BH-23-2, BH-23-7, BH-23-5, BH-23-3, TP4, BH3, BH-23-1, TP7, BH4, BH-23-17, BH-23-14, BH-23-13, BH-23-4, BH-23-18, BH-23-8, BH-23-12, TP3, BH-23-19, BH-23-6, BH-23-10, BH-23-21, BH-23-20, BH-23-16, BH-23-15, TP2, BH5, BH-23-11

Neyagawa Boulevard, Robert Brown Bc, Lane 135, Lane 1, 16 Mile Drive, Gladestu, Dundas Street West, Zamuner Court, Upper Valley Crescent, Valley Heights Crescent, ns Valley Park Road

0 50 100 m

Legend

- Property Boundary
- Borehole - DS 2023
- Monitoring Well - DS 2023
- Monitoring Well - SHAD 2022
- Test Pit - DS 2022
- Sample met applicable standards

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Vaughan, Ontario L4H 0K8
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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3065 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **GROUNDWATER CHARACTERIZATION - VOCs**

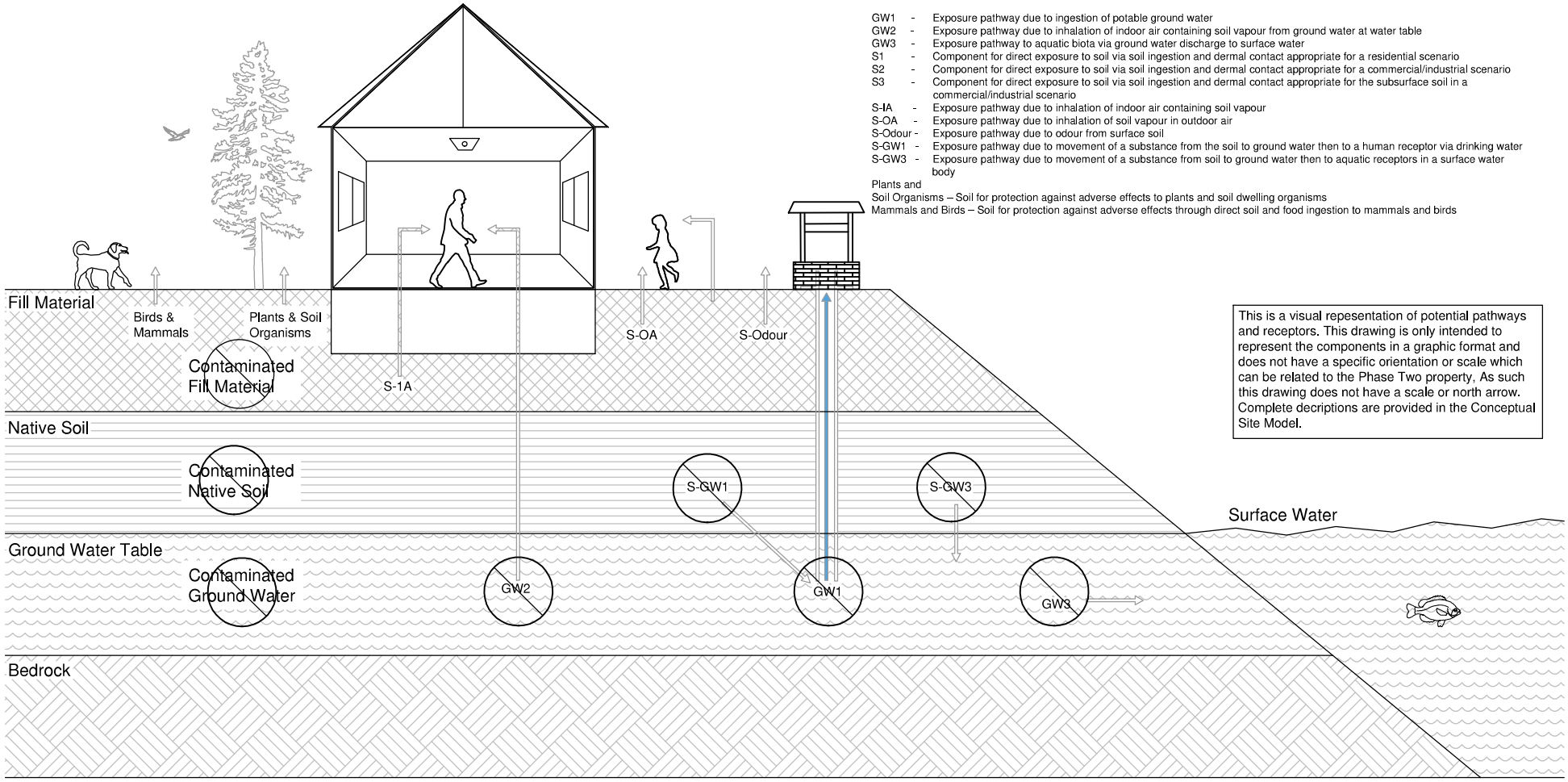
Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By:	Drawn By:	Date:
11x17	R.F	P.P	April 2024
Rev. 0	Scale: As Shown	Project No.: 22-012-101	Figure No.: **8D**

Image/Map Source: *Google Satellite Image*

J:\-GIS\2022 PROJECTS\22-012-100 3056 Neyagawa Blvd., Oakville\1-QGIS\101\Phase Two\Figure 8D - Groundwater Characterization - VOCs.qgs Apr-22 14:58

Path:c:\0sharon\20-307-100 forestside phase 7\7-misc\cad\figure 11 – contaminant transport diagram.dwg



Not Identified

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, ON

Title: **CONTAMINANT TRANSPORT DIAGRAM**

Client: NEATT SIXTEEN MILE CREEK INC.

Size:	Approved By:	Drawn By:	Date:
8.5 x 11	K.O	S.Y	May 2024
Rev.	Scale: N.T.S	Project No: 22-012-101	Figure No. 9

Appendix A

22-012-101 January 2, 2022

NEATT Sixteen Mile Creek Inc.
5926 Chercover Court
Burlington, Ontario
L7L 6T1

Re: Sampling and Analysis Plan – Phase Two Environmental Site Assessment
3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, Ontario

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 3056 Neyagawa Boulevard & 1039 Dundas Street West, 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 it is DS's understanding that the Site is a 8.12 hectare (20.0 acres) parcel of land which is currently used for mixed residential and institutional purposes. The first developed use of the Site is interpreted to be Residential based on the findings of the Phase One ESA. A total of twenty (20) 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-1A	Northeastern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1B	Central portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1C	Entire Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-5	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1D	Vicinity of former Site Building F, located in the southwestern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-11	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1E	Vicinity of former Site Building G, located in the southern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-12	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1F	Vicinity of former Shed 2, located in the southern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-14	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-2	Northern portion of the Site	#58: Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners.	Off-Site PCA-6	PHCs, VOCs, BTEX, Metals, As, Sb, Se, CN-, Cr (VI), Hg, PAHs	Groundwater
APEC-3	Southwestern portion of the Site in the vicinity of former orchard	#40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site PCA-8	OCPs	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)
APEC-4A	Northern portion of the Property in the vicinity of Shed 1.	#N/S: Storage of miscellaneous debris, refuse and boats	On-Site PCA-13	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-4B	Eastern portion of the Site	#N/S: Storage of miscellaneous debris and refuse	On-Site PCA-15	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-4C	Central portion of the Site immediately north of agricultural field	#N/S: Storage of miscellaneous debris and refuse	On-Site PCA-16	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-4D	Southern portion of the Site immediately south of agricultural field	#N/S: Storage of miscellaneous debris and refuse	On-Site PCA-17	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-5A	Eastern portion of the Site	#N/S: Inferred application of de-icing agents	On-Site PCA-18	EC, SAR	Soil
				Sodium, Chloride	Groundwater
APEC-5B	Western portion of the Site	#N/S: Inferred application of de-icing agents	On-Site PCA-19	EC, SAR	Soil
				Sodium, Chloride	Groundwater
APEC-6	Within the Vicinity of Site Building B	#27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	On-Site PCA-20	PHCs, VOCs, BTEX, Metals, As, Sb, Se, Cr (VI), Hg, PAHs	Soil and Groundwater

Notes:
N/S - not specified in Table 2, Schedule D, of O.Reg. 153/04
BTEX = Benzene, Toluene, Ethylbenzene, Xylene
OCPs = Organochlorine Pesticides
PAHs = Polycyclic Aromatic Hydrocarbons
PHCs = Petroleum Hydrocarbons
VOCs = Volatile Organic Compounds

3. Site Investigation Program

The proposed field investigation will involve the advancement of eight (8) test pits (TP1 to TP8) on the eastern portion of the Phase Two Property using a backhoe under the supervision of DS

personnel, to depths ranging between 2.3 to 3.5 metres below ground surface (mbgs). As well as the advancement of twenty-one (21) additional boreholes (BH23-1 to BH23-21), to depths ranging from 1.4 to 18.8 mbgs on the western portion of the Phase Two Property. Ten (10) of the boreholes were instrumented with groundwater monitoring wells (BH23-1 to BH23-9 and BH23-17) upon completion.

Prior to mobilizing a drilling rig, we will lay out the proposed borehole and clear the buried utilities and services by using Ontario One Call System in addition to private utility locates.

The borings will be advanced to the indicated depths using a combination of a truck/track mounted continuous flight auger machine and portable drilling equipment (for MW20-20S and MW20-24S). Samples will be retrieved by means of a 50 mm O.D. split-spoon barrel sampler at 0.75 metre intervals in the upper 3 metres and at 1.5 metres intervals below this level. The monitoring wells will be constructed using 50 mm I.D. PVC pipe, equipped with 3.1 m slotted screens and finished at the ground surface with flush mount well casings. A geodetic benchmark will be used to establish the elevation of each borehole. Drilling and sampling will conform to standard practice.

The Phase Two ESA involves the following principal tasks:

- Retain the services of public and private utility locaters to identify the locations of buried and overhead utility services prior to any excavation or demolition activities;
    - Certain underground utilities (such as those constructed or encased in plastic, fibreglass, clay, concrete pipe, untraceable cast iron, steel, and/or repaired services) cannot be traced by standard locating practices. DS will review all available Site Plans and/or “As Built” figures in an attempt to identify the locations of potential untraceable services. DS will not be held responsible for any damages to utility services that are not on the figures provided or cannot be located by standard utility locating practices;
- Advancement of boreholes as described above. The proposed boreholes will be used to facilitate the collection of representative soil and groundwater samples, and to provide information regarding the Site-specific geological and hydrogeological conditions;
- All soil samples recovered during the proposed drilling activities will be field screened for visual and olfactory evidence of deleterious impacts and for the presence of petroleum hydrocarbon (PHC) and volatile organic compound (VOC) derived vapours using either a combustible gas detector (CGD) calibrated to hexane or a photo-ionization detector (PID) calibrated to isobutylene or equivalent;

- Measure the depth to groundwater levels in the monitoring wells installed, and monitor the wells for the presence/absence of non-aqueous phase liquid using an interface probe;
- Survey each of the monitoring wells to a geodetic datum;
- Develop and purge all of the monitoring wells installed;
- Submit soil samples from the newly advanced boreholes as follows:

Table 3-1: Summary of proposed soil chemical analyses

Borehole ID	Sample No.	Sample Depth (mbgs)	Soil Description	Parameter Analyzed	APEC Investigated
TP1	TP1-1	0.0-0.6	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs, PHCs, BTEX, VOCs	APEC-1C, APEC-1F
	Dup 1 (TP1-1)			Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	
TP2	TP2-1	0.0-0.6	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1C, APEC-4D
	TP2-3	1.5-2.5	Sand	pH	
TP3	TP3-1	0.0-0.6	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1C, APEC-4C, APEC-5A
	Dup 2 (TP3-1)			PAHs	
	TP3-4	2.2-2.7	Silty sand	pH	
TP4	TP4-1	0.0-0.6	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1B, APEC-1C, APEC-2
	Dup 3 (TP4-1)			PAHs	
	TP4-3	1.5-2.2	Silty sand	pH	
TP5	TP5-1	0.0-0.7	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1C, APEC-2, APEC-4A
	TP5-4	2.2-2.5	Silty sand	PHCs, BTEX, VOCs	
TP6	TP6-1	0.0-0.7	Sandy silt	PAHs	APEC-1C, APEC-4B, APEC-5A
	TP6-2	0.7-1.5	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	
	TP6-3	1.5-2.2	Silty sand	pH	
TP7	TP7-1	0.0-0.7	Silty sand	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	APEC-1C, APEC-5A, APEC-6
	TP7-2	0.7-1.5	Silty sand	PAHs	
	TP7-4	2.3-3.1	Silty sand	PHCs, BTEX, VOCs	
TP8	TP8-1	0.0-0.6	Sandy silt	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1A, APEC-1C, APEC-5A
BH23-9	SS1	0.1-0.7	Fill - Sand	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-2
	SS2	0.8-1.4	Silty clay till	PAHs	
	DUP-3				
	SS3	1.5-2.1	Silty clay till	PHCs, BTEX, VOCs	
BH23-10	SS1	0.3-0.6	Fill - Clayey silt	OCPs	APEC-1C, APEC-3
	DUP-4				
	SS2	0.8-1.4	Silty clay till	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	
	SS3	1.5-1.8	Silty clay till	PHCs, BTEX, VOCs	

BH23-11	SS2	0.8-1.4	Silty clay till	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	APEC-1C
BH23-12	SS2	0.8-1.4	Silty clay till	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	APEC-1C, APEC-1E
BH23-13	SS1	0.2-0.6	Fill - Silty clay	OCPs	APEC-1C, APEC-3
	SS2	0.8-1.4	Silty clay till	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	
BH23-14	SS1	0.2-0.6	Fill - Silty clay	OCPs	APEC-1C, APEC-3
BH23-15	SS1	0.2-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-3
	SS2	0.8-1.4	Silty clay till	PAHs, PHCs, BTEX, VOCs	
BH23-16	SS1	0.2-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, PAHs	APEC-1C, APEC-5B
	SS2	0.8-1.4	Fill - Silty clay	PHCs, BTEX, VOCs	
BH23-17	SS1	0.3-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-5B
	SS2	0.8-1.4	Silty clay till	PAHs	
	SS3	1.5-2.1	Silty clay till	PHCs, BTEX, VOCs	
	DUP-1				
BH23-18	SS1	0-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-5B
	DUP-2			Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	
BH23-19	SS1	0.2-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-1D
	SS2	0.8-1.4	Silty clay till	PAHs	
BH23-20	SS1	0.2-0.6	Fill - Silty clay	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR, OCPs	APEC-1C, APEC-5B
	SS3	1.5-2.1	Silty clay till	PHCs, BTEX, VOCs	
BH23-21	SS1	0.2-0.6	Fill - Silty clay	PAHs, OCPs	APEC-1C, APEC-5B
	SS2	0.8-1.4	Silty clay till	Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR	
	SS4	2.3-2.8	Silty clay till	PHCs, BTEX, VOCs	

- Submit groundwater samples from the monitoring wells as follows:

Table 3-2: Summary of proposed groundwater analyses

Well ID	Well Screen Interval masl			Sample Date	Parameter Analyzed	APEC Investigated
BH1	152.94	-	155.94	22-Jan-22	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs	APEC-2, APEC-5A
DUP2						
BH2	152.66	-	155.66	22-Jan-22	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs	APEC-5A, APEC-6
BH4	152.25	-	155.25	22-Jan-22	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs	APEC-5A
DUP1						
MW23-9	152.10	-	155.10	30-Jun-23	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs	APEC-2
MW23-17	148.40	-	151.40	30-Jun-23	Metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, BTEX, VOCs, PAHs	APEC-5B
DUP1						

A summary of the proposed soil and groundwater analytical program is presented in the following table:

Table 3-3: Summary of Soil and Groundwater Analytical Program

Soil	Groundwater
• 22 Samples for analysis of metals and inorganics • 11 Samples for analysis of PHCs • 11 Samples for analysis of VOCs • 18 Samples for analysis of PAHs • 11 Samples for analysis of SVOCs	• 5 Samples for analysis of metals and inorganics • 5 Samples for analysis of PHCs • 5 Samples for analysis of VOCs • 5 Samples for analysis of PAHs • 1 VOC Trip Blank

- 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);
- A Phase Two ESA Report will be prepared upon receipt of all analytical results and groundwater monitoring data. The Phase Two ESA Report will be completed in general accordance with O.Reg. 153/04 (as amended).

It should be noted that drilling activities may result in some disturbance to the ground surface at the site. Precautions will be taken by the drilling contractor to minimize any damage. The Client will be notified should there be cause to extend the borehole termination depth based on field observations. It is assumed that the site can be accessed at our convenience, during regular business hours. Prior notice will be sent to the client and site representative

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.

4. Closure

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.

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Appendix B

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Geotechnical ◆ Environmental ◆ Materials ◆ Hydrogeology

LOG OF BOREHOLE BH23-1

PROJECT: Phase Two ESA

CLIENT: NEATT Sixteen Mile Creek Inc.

PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON

DATUM: Geodetic

BH LOCATION: See Figure 5 N 4813210.47 E 601359.2

DRILLING DATA

Method: Hollow Stem Auger/Mud Rotary

Diameter: 200mm

Date: Jun/06/2023

REF. NO.: 22-012-101

ENCL NO.: 1

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS 0.3 m "N"	ELEVATION
158.1					
0.0 / 157.3	**FILL:** clayey silt to silty clay, trace rootlets, trace gravel, trace sand, reddish brown, moist, stiff	1	SS	9	158
0.8	**SILTY CLAY TILL:** sandy, trace gravel, reddish brown, moist, very stiff to hard	2	SS	18	
155.8	weathered shale pieces at 1.5m	3	SS	37	157
155.6	**SILTY CLAY TILL/SHALE**	4	SS	50/ 130mm	
2.5	**COMPLEX:** trace sand, reddish brown, moist, hard	5	SS	50/ 25mm	156
	SHALE BEDROCK: Queenston Formation, reddish brown, weathered				155
153.4					
4.7 / 153.0	TCR=94%, SCR=77%, RQD=55%	6	SS	50/ 30mm	154
5.1	Hard layers=11%, Maximum hard layer thickness=50mm	R1	RC		
	TCR=96%, SCR=83%, RQD=46%	R2	RC		153
151.5	Hard layers=25%, Maximum hard layer thickness=75mm				
6.6	TCR=96%, SCR=81%, RQD=72%	R3	RC		152
150.1	Hard layers=14%, Maximum hard layer thickness=50mm				
8.0	TCR=95%, SCR=63%, RQD=51%	R4	RC		151
148.5	Hard layers=10%, Maximum hard layer thickness=60mm				
9.6	TCR=100%, SCR=88%, RQD=86%	R5	RC		150
147.0	Hard layers=25%, Maximum hard layer thickness=75mm				
11.1	TCR=92%, SCR=75%, RQD=64%	R6	RC		149
145.4	Hard layers=11%, Maximum hard layer thickness=75mm				
12.7	TCR=100%, SCR=93%, RQD=55%	R7	RC		148
144.0	Hard layers=20%, Maximum hard layer thickness=60mm				
14.1	TCR=91%, SCR=91%, RQD=88%	R8	RC		147
142.5	Hard layers=18%, Maximum hard layer thickness=75mm				
15.6	TCR=98%, SCR=95%, RQD=95%	R9	RC		146
141.0	Hard layers=16%, Maximum hard layer thickness=150mm				
17.1	TCR=95%, SCR=90%, RQD=77%	R10	RC		145
139.5	Hard layers=10%, Maximum hard layer thickness=130mm				144
18.6	**END OF BOREOLE:**				143
	Notes:				142
	1) 50mm dia. monitoring well installed upon completion.				141
	2) Water Level Readings:				140
	Date: Water Level(mbgl):				
	June 26, 2023 4.3				
	July 19, 2023 4.4				

W. L. 153.7 masl
Jul 19, 2023

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)

REMARKS AND GRAIN SIZE DISTRIBUTION (%)

GR	SA	SI	CL
4	21	49	26

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

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

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LOG OF BOREHOLE BH23-2

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813293.29 E 601330.07

DRILLING DATA
Method: Hollow Stem Auger/Mud Rotary
Diameter: 200mm
Date: Jun/05/2023

REF. NO.: 22-012-101
ENCL NO.: 2

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm)	Soil Head Space Vapors 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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
159.6													
159.6 / 0.0	**GRANULAR FILL:** sand and gravel, 50mm		1	SS	13		159						
158.8 / 0.8	**FILL:** clayey silt to silty clay, trace gravel, reddish brown, moist, stiff		2	SS	27		158						
	SILTY CLAY TILL: some sand, trace gravel, brown to reddish brown, moist, very stiff to hard		3	SS	29								
157.0 / 2.6	trace shale fragments at 2.3m **SHALE BEDROCK:** Queenston Formation, reddish brown, weathered		4	SS	62	▽	157						
			5	SS	50/ 130mm		156						
154.9 / 4.7			6	SS	50/ 00mm		155						
154.5 / 5.1	TCR=94%, SCR=64%, RQD=23% Hard layers=11%, Maximum hard layer thickness=50mm		R1	SS									
153.0 / 6.6	TCR=90%, SCR=81%, RQD=68% Hard layers=11%, Maximum hard layer thickness=50mm		R2	RC			154						
151.5 / 8.1	TCR=91%, SCR=85%, RQD=66% Hard layers=16%, Maximum hard layer thickness=75mm		R3	RC			153						
149.9 / 9.7	TCR=100%, SCR=93%, RQD=75% Hard layers=19%, Maximum hard layer thickness=78mm		R4	RC			152						
148.4 / 11.2	TCR=95%, SCR=91%, RQD=91% Hard layers=15%, Maximum hard layer thickness=50mm		R5	RC			151						
146.9 / 12.7	TCR=93%, SCR=93%, RQD=90% Hard layers=25%, Maximum hard layer thickness=78mm		R6	RC			150						
145.3 / 14.3	TCR=100%, SCR=93%, RQD=82% Hard layers=14%, Maximum hard layer thickness=55mm		R7	RC			149						
143.8 / 15.8	TCR=98%, SCR=93%, RQD=88% Hard layers=23%, Maximum hard layer thickness=78mm		R8	RC			148						
142.4 / 17.2	TCR=96%, SCR=96%, RQD=93% Hard layers=27%, Maximum hard layer thickness=78mm		R9	RC			147						
140.8 / 18.8	TCR=100%, SCR=100%, RQD=94% Hard layers=22%, Maximum hard layer thickness=127mm		R10	RC			146						
	END OF BOREHOLE: Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water Level Readings: Date: Water Level(mbgl): June 26, 2023 2.5 July 19, 2023 2.8						145						
							144						
							143						
							142						
							141						

W. L. 156.8 masl
Jul 19, 2023

DS ENVIRO 0~50 PPM-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

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 BH23-3

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813192.51 E 601273.15

DRILLING DATA
Method: Hollow Stem Auger/Mud Rotary
Diameter: 200mm
Date: Jun/06/2023

REF. NO.: 22-012-101
ENCL NO.: 3

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm)	Soil Head Space Vapors 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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
158.2								10 20 30 40	10 20 30 40	10 20 30			
0.0	**FILL:** clayey silt to silty clay, some sand, trace cobble fragments, trace weathered shale, reddish brown, moist, stiff to very stiff		1	SS	26		158						
157.2 1.0	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, stiff		2	SS	8		157						
2			3	SS	13								1 12 58 29
155.8 2.4	weathered shale inclusions at 2.3m		4	SS	50/ 130mm		156						
3	**SHALE BEDROCK:** Queenston Formation, reddish brown, weathered		5	SS	50/ 130mm	▽							
4								W. L. 155.2 masl Jun 26, 2023					
153.5							154						
4.7 153.1	TCR=78%, SCR=57%, RQD=28%		6	SS	50/ 30mm								
5 5.1	Hard layers=5%, Maximum hard layer thickness=25mm		R1	RC			153						
6	TCR=94%, SCR=89%, RQD=54% Hard layers=10%, Maximum hard layer thickness=50mm		R2	RC			152						
151.7 6.5	TCR=98%, SCR=95%, RQD=95% Hard layers=24%, Maximum hard layer thickness=100mm		R3	RC			151						
7 150.1 8.1	TCR=98%, SCR=98%, RQD=95% Hard layers=18%, Maximum hard layer thickness=50mm		R4	RC			150						
9 148.6 9.6	TCR=100%, SCR=100%, RQD=95% Hard layers=20%, Maximum hard layer thickness=75mm		R5	RC			149						
10 11 147.1 11.1	TCR=96%, SCR=96%, RQD=88% Hard layers=20%, Maximum hard layer thickness=50mm		R6	RC			148						
12 145.6 12.6	TCR=94%, SCR=93%, RQD=74% Hard layers=24%, Maximum hard layer thickness=130mm		R7	RC			147						
13 14 144.2 14.0	TCR=96%, SCR=94%, RQD=88% Hard layers=28%, Maximum hard layer thickness=100mm		R8	RC			146						
15 142.6 15.6	TCR=100%, SCR=100%, RQD=88% Hard layers=16%, Maximum hard layer thickness=100mm		R9	RC			145						
16 17 141.0 17.2	TCR=100%, SCR=100%, RQD=76% Hard layers=12%, Maximum hard layer thickness=50mm		R10	RC			144						
18 139.5							143						
18.7	**END OF BOREHOLE:** Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water Level Readings: Date: Water Level(mbgl): June 26, 2023 3.0						142						
							141						
							140						

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-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

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LOG OF BOREHOLE BH23-4

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813123.32 E 601363.01

DRILLING DATA
Method: Hollow Stem Auger/Mud Rotary
Diameter: 200mm
Date: Jun/07/2023

REF. NO.: 22-012-101
ENCL NO.: 4

ELEV / DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS "N" 0.3 m	GROUND WATER CONDITIONS	ELEVATION
156.9							
0.0 / 156.1	**FILL:** clayey silt to silty clay, trace sand, trace rootlets, reddish brown, moist, stiff		1	SS	11		
0.8 / 155.3	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, very stiff		2	SS	18		
1.6 / 154.5	**SILTY CLAY TILL/SHALE COMPLEX:** trace sand, trace gravel, reddish brown, moist, hard		3	SS	50/ 100mm		
2.4 / 152.2	**SHALE BEDROCK:** Queenston Formation, reddish brown, weathered		4	SS	50/ 75mm		
			5	SS	50/ 75mm		
4.8 / 151.8	TCR=98%, SCR=77%, RQD=66%		6	SS	50/ 75mm		
5.1	Hard layers=19%, Maximum hard layer thickness=50mm		R1	RC			
150.3	TCR=98%, SCR=93%, RQD=73% Hard layers=20%, Maximum hard layer thickness=50mm		R2	RC			
6.6 / 148.8	TCR=100%, SCR=98%, RQD=93% Hard layers=20%, Maximum hard layer thickness=60mm		R3	RC			
8.1 / 147.3	TCR=100%, SCR=100%, RQD=98% Hard layers=11%, Maximum hard layer thickness=50mm		R4	RC			
9.6 / 145.8	TCR=100%, SCR=98%, RQD=89% Hard layers=22%, Maximum hard layer thickness=130mm		R5	RC		▽	
11.1 / 144.3	TCR=98%, SCR=98%, RQD=84% Hard layers=11%, Maximum hard layer thickness=50mm		R6	RC			
12.6 / 142.9	TCR=94%, SCR=94%, RQD=89% Hard layers=25%, Maximum hard layer thickness=100mm		R7	RC			
14.0 / 141.3	TCR=96%, SCR=96%, RQD=93% Hard layers=12%, Maximum hard layer thickness=50mm		R8	RC			
15.6 / 139.7	TCR=100%, SCR=91%, RQD=67% Hard layers=19%, Maximum hard layer thickness=150mm		R9	RC			
17.2 / 138.2	TCR=100%, SCR=100%, RQD=91% Hard layers=25%, Maximum hard layer thickness=100mm		R10	RC			
18.7	**END OF BOREHOLE:**						

Notes:
1) 50mm dia. monitoring well installed upon completion.
2) Water Level Readings:

Date:	Water Level(mbgl):
June 26, 2023	9.4
July 19, 2023	10.5

W. L. 146.4 masl
Jul 19, 2023

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)

REMARKS AND GRAIN SIZE DISTRIBUTION (%)
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 BH23-5

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813099.92 E 601201.33

DRILLING DATA
Method: Hollow Stem Auger/Mud Rotary
Diameter: 200mm
Date: Jun/13/2023

REF. NO.: 22-012-101
ENCL NO.: 5

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	PID (ppm)	CGD (ppm)	PLASTIC LIMIT w_P	NATURAL MOISTURE CONTENT w	LIQUID LIMIT w_L	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
157.6															
157.3 / 0.3	**TOPSOIL:** 250mm		1	SS	8		157								
156.5 / 1.1	**FILL:** clayey silt to silty clay, trace gravel, trace organic staining, trace sand, trace rootlets, brown to reddish brown, moist, firm to stiff		2	SS	7										
2	**SILTY CLAY TILL:** some sand to sandy, trace gravel, reddish brown, moist, firm to hard		3	SS	38		156								4 18 52 26
	weathered shale inclusions at 2.3m		4	SS	50/ 25mm		155								
154.5 / 3															
154.3 / 3.3	**SILTY CLAY TILL/SHALE COMPLEX:** trace sand, trace gravel, reddish brown, moist, hard		5	SS	50/ 150mm		154								
4	**SHALE BEDROCK:** Queenston Formation, reddish brown, weathered					▽									
152.9 / 4.7			6	SS	50/ 150mm		W. L. 153.5 masl Jul 19, 2023								
152.4 / 5	TCR=98%, SCR=83%, RQD=22% Hard layers=33%, Maximum hard layer thickness=50mm		R1	RC											
5.2 / 6	TCR=84%, SCR=52%, RQD=29% Hard layers=15%, Maximum hard layer thickness=100mm		R2	RC			152								
151.0 / 6.6 / 7	TCR=98%, SCR=98%, RQD=90% Hard layers=20%, Maximum hard layer thickness=60mm		R3	RC			151								
149.5 / 8							150								
8.1 / 9	TCR=100%, SCR=100%, RQD=95% Hard layers=18%, Maximum hard layer thickness=50mm		R4	RC			149								
148.0															
9.6 / 10	TCR=100%, SCR=100%, RQD=94% Hard layers=25%, Maximum hard layer thickness=50mm		R5	RC			148								
146.5 / 11							147								
11.1 / 12	TCR=98%, SCR=93%, RQD=90% Hard layers=16%, Maximum hard layer thickness=50mm		R6	RC			146								
144.9															
12.7 / 13	TCR=95%, SCR=95%, RQD=95% Hard layers=20%, Maximum hard layer thickness=150mm		R7	RC			145								
143.4 / 14							144								
14.2 / 15	TCR=100%, SCR=100%, RQD=100% Hard layers=33%, Maximum hard layer thickness=100mm		R8	RC			143								
141.9															
15.7 / 16	TCR=100%, SCR=100%, RQD=100% Hard layers=20%, Maximum hard layer thickness=100mm		R9	RC			142								
140.4 / 17							141								
17.2 / 18	TCR=100%, SCR=100%, RQD=100% Hard layers=13%, Maximum hard layer thickness=100mm		R10	RC			140								
138.9							139								
18.7	**END OF BOREHOLE:** Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water Level Readings: Date: Water Level(mbgl): June 26, 2023 4.2 July 19, 2023 4.1														

Soil Head Space Vapors

WATER CONTENT (%)

GROUNDWATER ELEVATIONS
Measurement 1st ▽ 2nd ▼ 3rd ▼ 4th ▼

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

DS ENVIRO 0-50 PPM-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

DS CONSULTANTS LTD.
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LOG OF BOREHOLE BH23-6

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813009.03 E 601286.1

DRILLING DATA
Method: Hollow Stem Auger/Mud Rotary
Diameter: 200mm
Date: Jun/09/2023

REF. NO.: 22-012-101
ENCL NO.: 6

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors 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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
155.4													
155.2 0.2	**TOPSOIL:** 180mm		1	SS	12		155						
154.6 1 0.8	**FILL:** clayey silt to silty clay, trace sand, trace rootlets, trace asphalt fragment, brown, moist, stiff		2	SS	54		154						3 14 61 22
2 153.1 2.3	**SILTY CLAY TILL:** some sand, trace gravel, weathered shale inclusions, reddish brown, moist, hard		3	SS	50/ 130mm		153						
3 152.2 3.2	**SILTY CLAY TILL/SHALE COMPLEX:** trace sand, reddish brown, moist, hard		4	SS	50/ 130mm		152						
4 150.7	**SHALE BEDROCK:** Queenston Formation, reddish brown, weathered		5	SS	50/ 75mm								
5 4.7 150.2 5.2	TCR=89%, SCR=89%, RQD=68% Hard layers=10%, Maximum hard layer thickness=50mm		6 R1	SS RC	50/ 75mm	W. L. 151.2 masl Jul 19, 2023	151						
6 148.7	TCR=100%, SCR=96%, RQD=96% Hard layers=21%, Maximum hard layer thickness=100mm		R2	RC			150						
7 6.7 147.3	TCR=100%, SCR=98%, RQD=90% Hard layers=11%, Maximum hard layer thickness=50mm		R3	RC			149						
8 8.1 145.8	TCR=90%, SCR=90%, RQD=83% Hard layers=20%, Maximum hard layer thickness=50mm		R4	RC			148						
9 9.6 144.3	TCR=98%, SCR=95%, RQD=95% Hard layers=16%, Maximum hard layer thickness=60mm		R5	RC			147						
10 11.1 142.8	TCR=96%, SCR=96%, RQD=90% Hard layers=25%, Maximum hard layer thickness=200mm		R6	RC			146						
11 12.6 141.2	TCR=100%, SCR=100%, RQD=83% Hard layers=24%, Maximum hard layer thickness=50mm		R7	RC			145						
12 14.2 139.7	TCR=100%, SCR=100%, RQD=100% Hard layers=16%, Maximum hard layer thickness=50mm		R8	RC			144						
13 15.7 138.2	TCR=98%, SCR=98%, RQD=98% Hard layers=21%, Maximum hard layer thickness=100mm		R9	RC			143						
14 17.2 136.7	TCR=100%, SCR=100%, RQD=85% Hard layers=10%, Maximum hard layer thickness=50mm		R10	RC			142						
141							141						
140							140						
139							139						
138							138						
137							137						
18.7	**END OF BOREHOLE:** Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water Level Readings: Date: Water Level(mbgl): June 26, 2023 4.1 July 19, 2023 4.2												

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: $+^3$, $\times^3$: Numbers refer to Sensitivity; $\circ^6$ 6=3% Strain at Failure

DS ENVIRO 0~50 PPM-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

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LOG OF BOREHOLE BH23-7

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813034.31 E 601133.46

DRILLING DATA
Method: Hollow Stem Auger/Mud Rotary
Diameter: 200mm
Date: Jun/14/2023

REF. NO.: 22-012-101
ENCL NO.: 7

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors 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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
157.6													
157.4 0.2	**TOPSOIL:** 150mm		1	SS	10		157						
156.1 1.5	**FILL:** silty clay, trace to some organics, trace rootlets, reddish brown, moist, firm to stiff		2	SS	7		156						
	SILTY CLAY TILL: sandy, trace clay, trace weathered shale fragments, brown to reddish brown, moist, very stiff to hard		3	SS	19								
			4	SS	32		155						3 20 53 24
154.3 3.3			5	SS	50/ 130mm								
	SHALE BEDROCK: Queenston Formation, reddish brown, weathered						154						
152.9 4.7			6	SS	50/ 25mm								
152.5 5.1	TCR=100%, SCR=75%, RQD=0% Hard layers=25%, Maximum hard layer thickness=100mm		R1	RC		W. L. 152.6 masl Jul 19, 2023	153						
151.0 6.6	TCR=100%, SCR=82%, RQD=61% Hard layers=31%, Maximum hard layer thickness=100mm		R2	RC			152						
149.5 8.1	TCR=100%, SCR=100%, RQD=80% Hard layers=34%, Maximum hard layer thickness=75mm		R3	RC			151						
148.0 9.6	TCR=95%, SCR=95%, RQD=90% Hard layers=13%, Maximum hard layer thickness=50mm		R4	RC			150						
146.5 11.1	TCR=100%, SCR=97%, RQD=52% Hard layers=21%, Maximum hard layer thickness=50mm		R5	RC			149						
144.9 12.7	TCR=100%, SCR=100%, RQD=98% Hard layers=16%, Maximum hard layer thickness=100mm		R6	RC			148						
143.4 14.2	TCR=98%, SCR=95%, RQD=93% Hard layers=15%, Maximum hard layer thickness=60mm		R7	RC			147						
141.9 15.7	TCR=100%, SCR=98%, RQD=97% Hard layers=31%, Maximum hard layer thickness=100mm		R8	RC			146						
140.4 17.2	TCR=100%, SCR=98%, RQD=93% Hard layers=20%, Maximum hard layer thickness=100mm		R9	RC			145						
138.8 18.8	TCR=100%, SCR=100%, RQD=100% Hard layers=10%, Maximum hard layer thickness=50mm		R10	RC			144						
	END OF BOREHOLE: Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water Level Readings: Date: Water Level(mbgl): June 26, 2023 5.0 July 19, 2023 5.0						143						
							142						
							141						
							140						
							139						

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GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: $+^{3}$, $\times^{3}$: Numbers refer to Sensitivity; ○ 6=3% Strain at Failure

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LOG OF BOREHOLE BH23-8

PROJECT: Phase Two ESA

CLIENT: NEATT Sixteen Mile Creek Inc.

PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON

DATUM: Geodetic

BH LOCATION: See Figure 5 N 4812943.74 E 601237.76

DRILLING DATA

Method: Hollow Stem Auger/Mud Rotary

Diameter: 200mm

Date: Jun/15/2023

REF. NO.: 22-012-101

ENCL NO.: 8

ELEV / DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS "N" 0.3 m	GROUND WATER CONDITIONS	ELEVATION	PID (ppm)	CGD (ppm)	PLASTIC LIMIT w_P	NATURAL MOISTURE CONTENT w	LIQUID LIMIT w_L	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
154.9															
154.7 0.2	**ASPHALT:** 150mm		1	SS	13										
154.1 0.8	**FILL:** silty clay, trace rootlets, trace gravel, brown, moist, stiff						154								
153.2 1.7	**SILTY CLAY TILL:** sandy, trace gravel, reddish brown, moist, very stiff		2	SS	23										9 20 48 23
152.5 2.4	**SILTY CLAY TILL/SHALE COMPLEX:** trace sand, reddish brown, moist, hard		3	SS	50/ 130mm		153								
	SHALE BEDROCK: Queenston Formation, reddish brown, weathered		4	SS	50/ 75mm		152								
150.2			5	SS	50/ 100mm		151								
149.8 4.7	TCR=98%, SCR=75%, RQD=35% Hard layers=9%, Maximum hard layer thickness=25mm		6 R1	SS RC	50/ 50mm		150								
148.3 5.1	TCR=93%, SCR=93%, RQD=85% Hard layers=10%, Maximum hard layer thickness=30mm		R2	RC			149								
146.8 6.6	TCR=100%, SCR=97%, RQD=66% Hard layers=18%, Maximum hard layer thickness=50mm		R3	RC			148								
145.3 8.1	TCR=100%, SCR=100%, RQD=90% Hard layers=19%, Maximum hard layer thickness=50mm		R4	RC			147								
143.9 9.6	TCR=89%, SCR=63%, RQD=54% Hard layers=10%, Maximum hard layer thickness=50mm		R5	RC			146								
142.3 11.0	TCR=100%, SCR=100%, RQD=84% Hard layers=13%, Maximum hard layer thickness=50mm		R6	RC			145								
140.7 12.6	TCR=100%, SCR=94%, RQD=94% Hard layers=16%, Maximum hard layer thickness=50mm		R7	RC		▽	144								
139.2 14.2	TCR=100%, SCR=100%, RQD=93% Hard layers=20%, Maximum hard layer thickness=50mm		R8	RC			143								
137.7 15.7	TCR=99%, SCR=99%, RQD=91% Hard layers=15%, Maximum hard layer thickness=50mm		R9	RC			142								
136.1 17.2	TCR=100%, SCR=100%, RQD=100% Hard layers=16%, Maximum hard layer thickness=150mm		R10	RC			141								
18.8	**END OF BOREHOLE:** Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water Level Readings: Date: Water Level (mbgl): June 26, 2023 12.9 July 19, 2023 13.1						140								
							139								
							138								
							137								

W. L. 141.8 masl
Jul 19, 2023

SOIL PROFILE | SAMPLES | Soil Head Space Vapors | WATER CONTENT (%) | REMARKS AND GRAIN SIZE DISTRIBUTION (%)

GROUNDWATER ELEVATIONS
Measurement 1st ▽ 2nd ▼ 3rd ▼ 4th ▼

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

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LOG OF BOREHOLE BH23-9

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813148.75 E 601183.14

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/19/2023

REF. NO.: 22-012-101
ENCL NO.: 9

(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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
158.2							10 20 30 40	10 20 30 40	10 20 30			
158.0	**TOPSOIL:** 100mm											
0.1	**FILL:** limestone screening, sand and gravel, surface vegetation, brown, moist, compact	1	SS	22		158						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, OCPs PAHs and DUP-3 (PAHs)
157.4												
0.8	**SILTY CLAY TILL:** some sand, trace gravel, weathered shale inclusions, reddish brown, moist, hard	2	SS	31		157						
1		3	SS	46								PHCs, BTEX, VOCs
2						156						
155.8												
2.4	**SILTY CLAY TILL/SHALE COMPLEX:** some sand, reddish brown, moist, hard	4	SS	50/ 130mm								
3												
155.0		5	SS	50/ 130mm		155						
3.2	**SHALE BEDROCK:** Queenston Formation, reddish brown, weathered											
4					▽							
						W. L. 154.1 masl Jul 19, 2023						
		6	SS	50/ 50mm								
5						153						
6												
152.0		7	SS	50/ 50mm								
6.2	**END OF BOREHOLE:**											

Notes:
1) 50mm dia. monitoring well installed upon completion.
2) Water Level Readings:

Date:	Water Level(mbgl):
June 26, 2023	4.1
July 19, 2023	4.1

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-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

DS CONSULTANTS LTD.
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LOG OF BOREHOLE BH23-10

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813033.64 E 601324.81

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/20/2023

REF. NO.: 22-012-101
ENCL NO.: 10

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS / 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors 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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
156.0							156						
0.0 / 155.8	**TOSPOIL:** 250mm												
0.3 / 155.2	**FILL:** clayey silt, trace sand, trace gravel, reddish brown, moist, stiff		1	SS	7								OCPs and DUP-4 (OCPs)
0.8 / 155.0	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, hard												
1.0	**SILTY CLAY TILL/SHALE COMPLEX:** trace sand, reddish brown, moist, hard		2	SS	40		155						Metals, As, Sb, Se, B-HWS, CN-, Cr(VI), Hg, pH and SAR, PAHs
			3	SS	50/ 130mm								PHCs, BTEX and VOCs
2							154						
153.6													
2.4 / 153.4	**SHALE BEDROCK:** Queenston Formation, reddish brown, weathered		4	SS	50/ 130mm								
2.6	**END OF BOREHOLE:** Notes: 1) Borehole dry at the bottom upon completion.												

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES
+ 3, × 3: Numbers refer to Sensitivity
○ 6 =3% Strain at Failure

DS ENVIRO 0-50 PPM-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

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LOG OF BOREHOLE BH23-11

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813005.79 E 601316.57

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/20/2023

REF. NO.: 22-012-101
ENCL NO.: 11

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES "N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors CGD (ppm) 10 20 30 40	PLASTIC LIMIT / NATURAL MOISTURE CONTENT / LIQUID LIMIT W_P W W_L WATER CONTENT (%) 10 20 30	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
155.4													
0.0 155.3	**TOPSOIL:** 150mm												
0.2	**FILL:** silty clay, trace rootlets, dark brown to brown, moist, stiff		1	SS	8		155						
154.6													
0.8 154.4	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, hard												
1.0 154.0	**SILTY CLAY TILL/SHALE COMPLEX:** some sand, trace gravel, reddish brown, moist, hard		2	SS	39								Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR
1.4	**END OF BOREHOLE:** Notes: 1) Borehole dry at the bottom upon completion.						154						

DS ENVIRO 0-50 PPM-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES
+ 3, × 3: Numbers refer to Sensitivity
○ 6 =3% Strain at Failure

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LOG OF BOREHOLE BH23-12

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813026.93 E 601300.44

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/20/2023

REF. NO.: 22-012-101
ENCL NO.: 12

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES "N" BLOWS/0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors 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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
155.9													
0.0	**FILL:** silty sand, some clay, some gravel, trace asphalt pieces, trace rootlets, brown, moist, loose		1	SS	9								
155.1													
0.8	**SILTY CLAY TILL:** some sand, trace gravel, trace shale fragments, brown to reddish brown, moist, very stiff		2	SS	26		155						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR
154.5													
1.4	**END OF BOREHOLE:** Notes: 1) Borehole is dry at the bottom 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 BH23-13

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813019.33 E 601271.99

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/20/2023

REF. NO.: 22-012-101
ENCL NO.: 13

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES "N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm)	Soil Head Space Vapors CGD (ppm)	PLASTIC LIMIT / NATURAL MOISTURE CONTENT / LIQUID LIMIT (W_P w W_L) WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
155.9								10 20 30 40	10 20 30 40	10 20 30			
0.0 155.8	**TOPSOIL:** 180mm												
0.2 155.1	**FILL:** silty clay, trace rootlets, dark brown to reddish brown, moist, firm		1	SS	5								OCPs
0.8 154.5	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, stiff		2	SS	13		155						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR
1.4	**END OF BOREHOLE:** Notes: 1) Borehole dry at the bottom 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 BH23-14

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4812993.67 E 601258.7

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/20/2023

REF. NO.: 22-012-101
ENCL NO.: 14

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES "N" BLOWS/0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm)	Soil Head Space Vapors CGD (ppm)	PLASTIC LIMIT / NATURAL MOISTURE CONTENT / LIQUID LIMIT; WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
155.0								10 20 30 40	10 20 30 40	10 20 30			
0.0 154.7	**TOPSOIL:** 230mm												
0.2 154.2	**FILL:** silty clay, trace rootlets, reddish brown, moist, firm		1	SS	6								OCPs
0.8 153.6	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, hard		2	SS	32		154						
1.4	**END OF BOREHOLE:** Notes: 1) Borehole dry at the bottom 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 BH23-15

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4812993.73 E 601303.98

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/16/2023

REF. NO.: 22-012-101
ENCL NO.: 15

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: "N" BLOWS/0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors: PID (ppm)	Soil Head Space Vapors: CGD (ppm)	PLASTIC LIMIT / NATURAL MOISTURE CONTENT / LIQUID LIMIT; WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
155.0								10 20 30 40	10 20 30 40	10 20 30			
0.0 / 154.8	**TOPSOIL:** 150mm												
0.2 / 154.2	**FILL:** silty clay, trace rootlets, reddish brown, moist, stiff		1	SS	9								Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, OCPs
0.8 / 153.6	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, very stiff		2	SS	27		154						PAHs, PHCs, BTEX, VOCs
1.4	**END OF BOREHOLE:** Notes: 1) Borehole dry at the bottom 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-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

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LOG OF BOREHOLE BH23-16

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4812963.39 E 601278.32

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/16/2023

REF. NO.: 22-012-101
ENCL NO.: 16

SOIL PROFILE (m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	TYPE	"N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
154.7													
0.0 154.5	**TOPSOIL:** 230mm												
0.2	**FILL:** silty clay, trace rootlets, reddish brown, moist, firm to stiff		1	SS	7		154						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, PAHs
1	trace organics, trace concrete pieces at 0.8m		2	SS	11								PHCs, BTEX, VOCs
153.3													
1.4	**END OF BOREHOLE:** Notes: 1) Borehole was dry at the bottom 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 BH23-17

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4812938.88 E 601207.53

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/16/2023

REF. NO.: 22-012-101
ENCL NO.: 17

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
154.5													
0.0 / 154.2	**TOPSOIL:** 280mm												
0.3 / 153.7	**FILL:** silty clay, trace rootlets, trace asphalt, trace organics, black to brown, moist, stiff		1	SS	11		154						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, OCPs PAHs
0.8	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, very stiff to hard		2	SS	26		153						
			3	SS	21								PHCs, BTEX, VOCs and DUP-1 (PHCs, VOCs)
151.4			4	SS	50/ 100mm		152						
3.1	**SHALE BEDROCK:** Queentson Formation, reddish brown, weathered		5	SS	50/ 75mm	W. L. 150.8 masl Jul 19, 2023	151						
			6	SS	50/ 130mm		150						
148.3			7	SS	50/ 50mm		149						
6.2	**END OF BOREHOLE:** Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water Level Readings: Date: Water Level(mbgl): June 26, 2023 3.7 July 19, 2023 3.7												

Soil Head Space Vapors

DS ENVIRO 0-50 PPM-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES
+ 3, × 3: Numbers refer to Sensitivity
○ 8=3% Strain at Failure

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LOG OF BOREHOLE BH23-18

PROJECT: Phase Two ESA

CLIENT: NEATT Sixteen Mile Creek Inc.

PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON

DATUM: Geodetic

BH LOCATION: See Figure 5 N 4812922.1 E 601208.51

DRILLING DATA

Method: Solid Stem Auger

Diameter: 150mm

Date: Jun/16/2023

REF. NO.: 22-012-101

ENCL NO.: 18

SOIL PROFILE (m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	TYPE	"N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
154.3													
0.0	**FILL:** silty clay, trace organics, sand and gravel, brown, moist, firm		1	SS	7		154						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, OCPs and DUP-2 (Metals and ORPs)
153.5													
0.8	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, very stiff		2	SS	28		153						
152.9													
1.4	**END OF BOREHOLE:** Notes: 1) Borehole dry at the bottom 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 BH23-19

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4812921.54 E 601228.89

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/16/2023

REF. NO.: 22-012-101
ENCL NO.: 19

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES "N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm)	Soil Head Space Vapors CGD (ppm)	PLASTIC LIMIT / NATURAL MOISTURE CONTENT / LIQUID LIMIT; WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
154.4								10 20 30 40	10 20 30 40	10 20 30			
0.0 154.2	**GRANULAR FILL:** sand and gravel, 150mm												
0.2	**FILL:** silty clay, organic staining, black, moist, stiff to very stiff		1	SS	26		154						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, OCPs
153.4													
1.0 153.0	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, stiff		2	SS	12		153						PAHs
1.4	**END OF BOREHOLE:** Notes: 1) Borehole dry at the bottom 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 BH23-20

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4812934.48 E 601243.05

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/16/2023

REF. NO.: 22-012-101
ENCL NO.: 20

ELEV / DEPTH (m)	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS/0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors 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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
154.6													
0.0 / 154.4	**GRANULAR FILL:** sand and gravel,180mm												
0.2 / 153.8	**FILL:** silty clay, trace sand, trace gravel, brown, moist, very stiff		1	SS	16		154						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, OCPs
0.8 / 152.3	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, very stiff to hard		2	SS	22								
			3	SS	38		153						PHCs, BTEX, VOCs
2.3 / 152.2	**SHALE BEDROCK:** reddish brown, weathered		4	SS	50/ 30mm								
2.4	**END OF BOREHOLE:** Notes: 1) Borehole is dry at the bottom 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 BH23-21

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4812905.65 E 601227.53

DRILLING DATA
Method: Solid Stem Auger
Diameter: 150mm
Date: Jun/16/2023

REF. NO.: 22-012-101
ENCL NO.: 21

SOIL PROFILE (m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	TYPE	"N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
154.2													
0.0 / 154.0	**GRANULAR FILL:** sand and gravel, 200mm												
0.2 / 153.4	**FILL:** silty clay, trace organics, trace sand, dark brown, moist, very stiff		1	SS	15		154						PAHs, OCPs
0.8 / 151.9	**SILTY CLAY TILL:** some sand, trace gravel, reddish brown, moist, very stiff to hard		2	SS	20		153						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR
			3	SS	38		152						
2.3 / 151.4	**SILTY CLAY TILL/SHALE COMPLEX:** trace sand, trace gravel, reddish brown, moist, hard		4	SS	50/ 75mm								PHCs, BTEX, VOCs
2.8	**END OF BOREHOLE:** Notes: 1) Borehole is dry 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 TP1

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813061.378 E 601351.21

DRILLING DATA
Method: Excavator
Diameter:
Date: Jan/10/2022

REF. NO.: 22-012-101
ENCL NO.: 22

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) 10 20 30 40	CGD (ppm) 10 20 30 40	PLASTIC LIMIT / NATURAL MOISTURE CONTENT / LIQUID LIMIT w_P w w_L WATER CONTENT (%) 10 20 30	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
156.1													
156.0 0.0	**TOPSOIL:**180mm												
0.2	**SANDY SILT:**reddish brown, moist, trace shale fragments		1	TP			156						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, PAHs, PHCs, BTEX, VOCs and DUP 1 (Metals and ORPs)
1			2	TP			155						
			3	TP									
2			4	TP			154						
153.8 2.3	END OF BOREHOLE												

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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 TP2

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813078.718 E 601340.954

DRILLING DATA
Method: Excavator
Diameter:
Date: Jan/10/2022

REF. NO.: 22-012-101
ENCL NO.: 23

ELEV / DEPTH (m)	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES BLOWS "N" 0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm)	Soil Head Space Vapors CGD (ppm)	PLASTIC LIMIT / NATURAL MOISTURE CONTENT / LIQUID LIMIT; WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
155.9													
155.7 0.0	**TOPSOIL:**180mm												
0.2	**SANDY SILT:**reddish grey, moist, gravel		1	TP									Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH, and SAR, PAHs
1			2	TP			155						
154.4													
1.5	**SAND:**reddish grey, dry to moist, trace shale fragments		3	TP			154						pH
2													
153.4													
2.5	END OF BOREHOLE												

PID (ppm) scale: 10 20 30 40
CGD (ppm) scale: 10 20 30 40
WATER CONTENT (%) scale: 10 20 30

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 TP3

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813158.915 E 601265.277

DRILLING DATA
Method: Excavator
Diameter:
Date: Jan/10/2022

REF. NO.: 22-012-101
ENCL NO.: 24

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES "N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors CGD (ppm) 10 20 30 40	PLASTIC LIMIT / NATURAL MOISTURE CONTENT / LIQUID LIMIT W_P W W_L WATER CONTENT (%) 10 20 30	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
158.3													
158.1 0.0	**TOPSOIL:**180mm												
0.2	**SANDY SILT:**reddish brown, moist, gravel		1	TP			158						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, PAHs and DUP 2 (PAHs)
1			2	TP			157						
156.8													
1.5	**SAND:**brown, moist		3	TP									
2 156.1													
2.2	**SILTY SAND:** reddish brown, moist, gravel		4	TP			156						pH
			5	TP									
3 155.3													
3.0	END OF BOREHOLE												

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 TP4

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813186.229 E 601237.412

DRILLING DATA
Method: Excavator
Diameter:
Date: Jan/10/2022

REF. NO.: 22-012-101
ENCL NO.: 25

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) 10 20 30 40	CGD (ppm) 10 20 30 40	PLASTIC LIMIT / NATURAL MOISTURE CONTENT / LIQUID LIMIT w_P w w_L WATER CONTENT (%) 10 20 30	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
158.8													
0.0	**TOPSOIL:**170mm												
158.6													
0.2	**SANDY SILT:**reddish brown, moist		1	TP									Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, PAHs and DUP 3 (PAHs)
			2	TP			158						
1													
157.3													
1.5	**SILTY SAND:**brown, moist		3	TP			157						pH
2													
156.6													
2.2	**SANDY SILT:**reddish brown, trace shale fragments, moist		4	TP			156						
3													
155.8													
3.0	END OF BOREHOLE												

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-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

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LOG OF BOREHOLE TP5

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813219.431 E 601247.816

DRILLING DATA
Method: Excavator
Diameter:
Date: Jan/10/2022

REF. NO.: 22-012-101
ENCL NO.: 26

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES "N" BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors 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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
158.4													
158.2 0.0	**TOPSOIL:**170mm												
0.2	**SANDY SILT:**reddish brown, moist		1	TP			158						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, PAHs
157.7													
0.7	**SILTY SAND:** reddish brown, moist, gravel, shale fragments		2	TP			157						
1			3	TP									
2													
155.9			4	TP			156						PHCs, BTEX, VOCs
2.5	END OF BOREHOLE												

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 TP6

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813234.249 E 601368.947

DRILLING DATA
Method: Excavator
Diameter:
Date: Jan/10/2022

REF. NO.: 22-012-101
ENCL NO.: 27

(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors 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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
158.8													
158.6 0.0	**TOPSOIL:**180mm												
0.2	**SANDY SILT:**reddish brown, gravel, moist		1	TP									PAHs
			2	TP			158						Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, PAHs pH
157.3 1.5	**SILTY SAND:**reddish grey, moist, trace shale fragments		3	TP			157						
			4	TP									
156.0 2.8	END OF BOREHOLE												

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 TP7

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813305.64 E 601327.268

DRILLING DATA
Method: Excavator
Diameter:
Date: Jan/10/2022

REF. NO.: 22-012-101
ENCL NO.: 28

ELEV / DEPTH (m)	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS "N" 0.3 m	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm) 10 20 30 40	Soil Head Space Vapors 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)	REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
159.9													
0.0	**TOPSOIL:**170mm												
159.7													
0.2	**SILTY SAND:**reddish brown, moist, gravel, trace shale fragments		1	TP									Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, PAHs
1			2	TP			159						PAHs
2			3	TP			158						
			4	TP			157						PHCs, BTEX, VOCs
3 156.8													
3.1	END OF BOREHOLE												

DS ENVIRO 0-50 PPM-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

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

DS CONSULTANTS LTD.
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LOG OF BOREHOLE TP8

PROJECT: Phase Two ESA
CLIENT: NEATT Sixteen Mile Creek Inc.
PROJECT LOCATION: 3056 Neyagawa Blvd. & 1039 Dundas St. W., Oakville, ON
DATUM: Geodetic
BH LOCATION: See Figure 5 N 4813312.07 E 601335.055

DRILLING DATA
Method: Excavator
Diameter:
Date: Jan/10/2022

REF. NO.: 22-012-101
ENCL NO.: 29

SOIL PROFILE			SAMPLES			GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors				POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	REMARKS AND GRAIN SIZE DISTRIBUTION (%)
(m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	TYPE	BLOWS 0.3 m "N"			PID (ppm)	CGD (ppm)	PLASTIC LIMIT w_P / NATURAL MOISTURE CONTENT w / LIQUID LIMIT w_L — WATER CONTENT (%)				GR SA SI CL
159.6								10 20 30 40	10 20 30 40	10 20 30				
159.6 0.0	**TOPSOIL:**180mm													
0.2	**SANDY SILT:**reddish grey, moist, trace shale fragments		1	TP										Metals, As, Sb, Se, B-HWS, CN-, EC, Cr(VI), Hg, pH and SAR, PAHs
1			2	TP			159							
			3	TP			158							
2			4	TP			157							
3														
156.1														
3.5	END OF BOREHOLE													

DS ENVIRO 0-50 PPM-2021 22-012-101 ENV.GPJ DS.GDT 4/25/24

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

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

Appendix C

FINAL REPORT

CA40062-FEB22 R

22-012-100, 3056 Neyagawa Blvd

Prepared for

DS Consultants

FINAL REPORT

CA40062-FEB22 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	CA40062-FEB22
Project	22-012-100, 3056 Neyagawa Blvd	Received	02/03/2022
Order Number		Approved	02/09/2022
Samples	Soil (3)	Report Number	CA40062-FEB22 R
		Date Reported	02/09/2022

COMMENTS

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

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

CN spike made with wrong std (1000mg/l) accepting on before and after working spike

SIGNATORIES

Jill Campbell, B.Sc.,GISAS

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Client: DS Consultants
Project: 22-012-100, 3056 Neyagawa Blvd
Project Manager: Kirstin Olsen
Samplers: Ryan Zhang

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

Sample Number				9	10	11
Sample Name				DUP 1	DUP 2	DUP 3
Sample Matrix				Soil	Soil	Soil
Sample Date				03/02/2022	03/02/2022	03/02/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
Hydrides						
Antimony	µg/g	0.8	7.5	< 0.8	---	---
Arsenic	µg/g	0.5	18	4.1	---	---
Selenium	µg/g	0.7	2.4	< 0.7	---	---
Metals and Inorganics						
Moisture Content	%	no		13.6	15.4	13.4
Barium	µg/g	0.1	390	76	---	---
Beryllium	µg/g	0.02	4	0.76	---	---
Boron	µg/g	1	120	9	---	---
Cadmium	µg/g	0.05	1.2	0.12	---	---
Chromium	µg/g	0.5	160	25	---	---
Cobalt	µg/g	0.01	22	15	---	---
Copper	µg/g	0.1	140	12	---	---
Lead	µg/g	0.1	120	14	---	---
Molybdenum	µg/g	0.1	6.9	0.7	---	---
Nickel	µg/g	0.5	100	33	---	---
Silver	µg/g	0.05	20	< 0.05	---	---
Thallium	µg/g	0.02	1	0.09	---	---
Uranium	µg/g	0.002	23	0.50	---	---
Vanadium	µg/g	3	86	30	---	---
Zinc	µg/g	0.7	340	66	---	---
Water Soluble Boron	µg/g	0.5	1.5	< 0.5	---	---

Client: DS Consultants
Project: 22-012-100, 3056 Neyagawa Blvd
Project Manager: Kirstin Olsen
Samplers: Ryan Zhang

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

			Sample Number	9	10	11
			Sample Name	DUP 1	DUP 2	DUP 3
			Sample Matrix	Soil	Soil	Soil
			Sample Date	03/02/2022	03/02/2022	03/02/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
Other (ORP)						
Mercury	ug/g	0.05	0.27	< 0.05	---	---
Sodium Adsorption Ratio	No unit	0.2	5	0.2	---	---
SAR Calcium	mg/L	0.2		38.3	---	---
SAR Magnesium	mg/L	0.3		3.0	---	---
SAR Sodium	mg/L	0.1		5.7	---	---
Conductivity	mS/cm	0.002	0.7	0.24	---	---
pH	pH Units	0.05		7.68	---	---
Chromium VI	µg/g	0.2	8	< 0.2	---	---
Free Cyanide	µg/g	0.05	0.051	< 0.05	---	---
PAHs						
Acenaphthene	µg/g	0.05	7.9	---	< 0.05	< 0.05
Acenaphthylene	µg/g	0.05	0.15	---	< 0.05	< 0.05
Anthracene	µg/g	0.05	0.67	---	< 0.05	< 0.05
Benzo(a)anthracene	µg/g	0.05	0.5	---	< 0.05	< 0.05
Benzo(a)pyrene	µg/g	0.05	0.3	---	< 0.05	< 0.05
Benzo(b+j)fluoranthene	µg/g	0.05	0.78	---	< 0.05	< 0.05
Benzo(ghi)perylene	µg/g	0.1	6.6	---	< 0.1	< 0.1
Benzo(k)fluoranthene	µg/g	0.05	0.78	---	< 0.05	< 0.05
Chrysene	µg/g	0.05	7	---	< 0.05	< 0.05
Dibenzo(a,h)anthracene	µg/g	0.06	0.1	---	< 0.06	< 0.06
Fluoranthene	µg/g	0.05	0.69	---	< 0.05	< 0.05
Fluorene	µg/g	0.05	62	---	< 0.05	< 0.05

Client: DS Consultants
Project: 22-012-100, 3056 Neyagawa Blvd
Project Manager: Kirstin Olsen
Samplers: Ryan Zhang

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

			Sample Number	9	10	11
			Sample Name	DUP 1	DUP 2	DUP 3
			Sample Matrix	Soil	Soil	Soil
			Sample Date	03/02/2022	03/02/2022	03/02/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
PAHs (continued)						
Indeno(1,2,3-cd)pyrene	µg/g	0.1	0.38	---	< 0.1	< 0.1
1-Methylnaphthalene	µg/g	0.05		---	< 0.05	< 0.05
2-Methylnaphthalene	µg/g	0.05		---	< 0.05	< 0.05
Methylnaphthalene, 2-(1-)	µg/g	0.05	0.99	---	< 0.05	< 0.05
Naphthalene	µg/g	0.05	0.6	---	< 0.05	< 0.05
Phenanthrene	µg/g	0.05	6.2	---	< 0.05	< 0.05
Pyrene	µg/g	0.05	78	---	< 0.05	< 0.05
SVOC Surrogates						
Surr Nitrobenzene-d5	Surr Rec %	no		---	98	101
Surr 2-Fluorobiphenyl	Surr Rec %	no		---	97	99
Surr 4-Terphenyl-d14	Surr Rec %	no		---	104	120
Surr 2-Fluorophenol	Surr Rec %	no		---	99	98
Surr Phenol-d6	Surr Rec %	no		---	101	103
Surr 2,4,6-Tribromophenol	Surr Rec %	no		---	98	107

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
Conductivity								
Method: EPA 6010/SM 2510 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-006								
DUP 1	EWL0092-FEB22	9	02/03/2022	02/03/2022	02/04/2022	02/04/2022	03/03/2022	02/07/2022
DUP 2		10	02/03/2022	02/03/2022	02/04/2022	02/04/2022	03/03/2022	02/07/2022
DUP 3		11	02/03/2022	02/03/2022	02/04/2022	02/04/2022	03/03/2022	02/07/2022
Cyanide by SFA								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-005								
DUP 1	SKA5026-FEB22	9	02/03/2022	02/03/2022			02/17/2022	02/08/2022
DUP 2		10	02/03/2022	02/03/2022			02/17/2022	02/08/2022
DUP 3		11	02/03/2022	02/03/2022			02/17/2022	02/08/2022
Hexavalent Chromium by SFA								
Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012								
DUP 1	SKA5027-FEB22	9	02/03/2022	02/03/2022	02/08/2022	02/08/2022	03/05/2022	02/09/2022
DUP 2		10	02/03/2022	02/03/2022	02/08/2022	02/08/2022	03/05/2022	02/09/2022
DUP 3		11	02/03/2022	02/03/2022	02/08/2022	02/08/2022	03/05/2022	02/09/2022
Mercury by CVAAS								
Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004								
DUP 1	EMS0031-FEB22	9	02/03/2022	02/03/2022	02/04/2022	02/04/2022	03/03/2022	02/08/2022
DUP 2		10	02/03/2022	02/03/2022	02/04/2022	02/04/2022	03/03/2022	02/08/2022
DUP 3		11	02/03/2022	02/03/2022	02/04/2022	02/04/2022	03/03/2022	02/08/2022
Metals in aqueous samples - ICP-OES								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-003								
DUP 1	ESG0015-FEB22	9	02/03/2022	02/03/2022	02/04/2022	02/07/2022	08/02/2022	02/07/2022
DUP 2		10	02/03/2022	02/03/2022	02/04/2022	02/07/2022	08/02/2022	02/07/2022
DUP 3		11	02/03/2022	02/03/2022	02/04/2022	02/07/2022	08/02/2022	02/07/2022
Metals in Soil - Aqua-regia/ICP-MS								
Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-005								
DUP 1	EMS0031-FEB22	9	02/03/2022	02/03/2022	02/04/2022	02/04/2022	08/02/2022	02/08/2022
DUP 2		10	02/03/2022	02/03/2022	02/04/2022	02/04/2022	08/02/2022	02/08/2022
DUP 3		11	02/03/2022	02/03/2022	02/04/2022	02/04/2022	08/02/2022	02/08/2022
Moisture								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
DUP 1	GCM0069-FEB22	9	02/03/2022	02/03/2022	02/04/2022	02/05/2022	04/04/2022	02/05/2022
DUP 2	GCM0069-FEB22	10	02/03/2022	02/03/2022	02/04/2022	02/05/2022	04/04/2022	02/05/2022
DUP 3	GCM0069-FEB22	11	02/03/2022	02/03/2022	02/04/2022	02/05/2022	04/04/2022	02/05/2022

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
pH								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-001								
DUP 1	ARD0023-FEB22	9	02/03/2022	02/03/2022	02/04/2022	02/04/2022	03/05/2022	02/04/2022
DUP 2		10	02/03/2022	02/03/2022	02/04/2022	02/04/2022	03/05/2022	02/04/2022
DUP 3		11	02/03/2022	02/03/2022	02/04/2022	02/04/2022	03/05/2022	02/04/2022
Semi-Volatile Organics								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-005								
DUP 1		9	02/03/2022	02/03/2022	02/05/2022	02/07/2022	02/17/2022	02/08/2022
DUP 2	GCM0073-FEB22	10	02/03/2022	02/03/2022	02/05/2022	02/07/2022	04/04/2022	02/08/2022
DUP 3	GCM0073-FEB22	11	02/03/2022	02/03/2022	02/05/2022	02/07/2022	02/17/2022	02/08/2022
Sodium adsorption ratio (SAR)								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]ARD-LAK-AN-021								
DUP 1		9	02/03/2022	02/03/2022	02/04/2022	02/07/2022	08/02/2022	02/07/2022
DUP 2		10	02/03/2022	02/03/2022	02/04/2022	02/07/2022	08/02/2022	02/07/2022
DUP 3		11	02/03/2022	02/03/2022	02/04/2022	02/07/2022	08/02/2022	02/07/2022
Water Soluble Boron								
Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-[ENV] SPE-LAK-AN-003								
DUP 1	ESG0010-FEB22	9	02/03/2022	02/03/2022	02/04/2022	02/04/2022	08/02/2022	02/04/2022
DUP 2		10	02/03/2022	02/03/2022	02/04/2022	02/04/2022	08/02/2022	02/04/2022
DUP 3		11	02/03/2022	02/03/2022	02/04/2022	02/04/2022	08/02/2022	02/04/2022

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	EWL0092-FEB22	mS/cm	0.002	<0.002	0	10	101	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	SKA5026-FEB22	µg/g	0.05	<0.05	ND	20	11	80	120	101	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	SKA5027-FEB22	ug/g	0.2	<0.2	ND	20	95	80	120	100	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	EMS0031-FEB22	ug/g	0.05	<0.05	ND	20	96	80	120	98	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	ESG0015-FEB22	mg/L	0.2	<0.09	2	20	109	80	120	89	70	130
SAR Magnesium	ESG0015-FEB22	mg/L	0.3	<0.02	3	20	106	80	120	89	70	130
SAR Sodium	ESG0015-FEB22	mg/L	0.1	<0.15	2	20	108	80	120	115	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	EMS0031-FEB22	ug/g	0.05	<0.05	7	20	90	70	130	99	70	130
Arsenic	EMS0031-FEB22	µg/g	0.5	<0.5	2	20	100	70	130	107	70	130
Barium	EMS0031-FEB22	ug/g	0.1	<0.1	0	20	103	70	130	107	70	130
Beryllium	EMS0031-FEB22	µg/g	0.02	<0.02	8	20	98	70	130	95	70	130
Boron	EMS0031-FEB22	µg/g	1	<1	8	20	98	70	130	84	70	130
Cadmium	EMS0031-FEB22	ug/g	0.05	<0.05	12	20	103	70	130	115	70	130
Cobalt	EMS0031-FEB22	µg/g	0.01	<0.01	8	20	107	70	130	116	70	130
Chromium	EMS0031-FEB22	µg/g	0.5	<0.5	1	20	108	70	130	118	70	130
Copper	EMS0031-FEB22	µg/g	0.1	<0.1	4	20	108	70	130	118	70	130
Molybdenum	EMS0031-FEB22	µg/g	0.1	<0.1	11	20	106	70	130	113	70	130
Nickel	EMS0031-FEB22	ug/g	0.5	<0.5	5	20	107	70	130	118	70	130
Lead	EMS0031-FEB22	ug/g	0.1	<0.1	0	20	99	70	130	104	70	130
Antimony	EMS0031-FEB22	µg/g	0.8	<0.8	ND	20	97	70	130	117	70	130
Selenium	EMS0031-FEB22	µg/g	0.7	<0.7	ND	20	101	70	130	113	70	130
Thallium	EMS0031-FEB22	µg/g	0.02	<0.02	11	20	100	70	130	112	70	130
Uranium	EMS0031-FEB22	µg/g	0.002	<0.002	3	20	93	70	130	106	70	130
Vanadium	EMS0031-FEB22	µg/g	3	<3	6	20	108	70	130	119	70	130
Zinc	EMS0031-FEB22	µg/g	0.7	<0.7	2	20	106	70	130	115	70	130

QC SUMMARY

pH

Method: SM 4500 I 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	ARD0023-FEB22	pH Units	0.05		1	20	100	80	120			

QC SUMMARY

Semi-Volatile Organics

Method: EPA 3541/8270D | 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
1-Methylnaphthalene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	101	50	140	104	50	140
2-Methylnaphthalene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	101	50	140	103	50	140
Acenaphthene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	108	50	140	109	50	140
Acenaphthylene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	97	50	140	102	50	140
Anthracene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	107	50	140	107	50	140
Benzo(a)anthracene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	102	50	140	105	50	140
Benzo(a)pyrene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	98	50	140	102	50	140
Benzo(b+j)fluoranthene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	99	50	140	106	50	140
Benzo(ghi)perylene	GCM0073-FEB22	µg/g	0.1	< 0.1	ND	40	109	50	140	107	50	140
Benzo(k)fluoranthene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	108	50	140	108	50	140
Chrysene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	107	50	140	108	50	140
Dibenzo(a,h)anthracene	GCM0073-FEB22	µg/g	0.06	< 0.06	ND	40	109	50	140	109	50	140
Fluoranthene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	108	50	140	108	50	140
Fluorene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	113	50	140	114	50	140
Indeno(1,2,3-cd)pyrene	GCM0073-FEB22	µg/g	0.1	< 0.1	ND	40	113	50	140	114	50	140
Naphthalene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	103	50	140	103	50	140
Phenanthrene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	107	50	140	107	50	140
Pyrene	GCM0073-FEB22	µg/g	0.05	< 0.05	ND	40	106	50	140	106	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	ESG0010-FEB22	µg/g	0.5	<0.5	ND	20	107	80	120	94	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 --

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:

Page 1 of 1

Laboratory Information Section - Lab use only

Received By: [signature] Received By (signature): [signature]
Received Date: 02/03/2022 (mm/dd/yy) Custody Seal Present: Yes ☑ No ☐ Cooling Agent Present: Yes ☑ No ☐ Type: Ice
Received Time: 17:00 (hr : min) Custody Seal Intact: Yes ☑ No ☐ Temperature Upon Receipt (°C): 4°C & 3 LAB LIMS #: CA40062FEB22

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☐ (same as Report Information)
Contact: Kirstin Olsen	Company: DS
Address: 6221 Hwy 7, Unit 16, Vaughan, Ontario	Contact:
Phone:	Address:
Fax:	Phone:
Email: kirstin.olsen@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #: P.O. #:
Project #: 22-012-100 Site Location/ID: 3050 Meyaguwa Blvd

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)	Other (please specify)	Other (please specify)	Other (please specify)	Other (please specify)	Other (please specify)	Sewer Use: Specify pkg:	Water Characterization Pkg ☐ Extended ☐ General	TCLP: Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	~~TP1-1~~ ~~DUP~~ DUP 1	Feb 3 2022	-	1	Soil		✔																			
2	~~TP3-1~~ DUP 2	Feb 3 2022	-	1	Soil					✔																
3	~~TP4-1~~ DUP 3	Feb 3 2022	-	1	Soil					✔																
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Observations/Comments/Special Instructions

Sampled By (NAME): Ryan Zhang **Signature:** [signature] Date: ____/____/____ (mm/dd/yy) Pink Copy - Client

Relinquished by (NAME): Ryan Zhang **Signature:** [signature] Date: ____/____/____ (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

CA40064-JAN22 R

22-012-100, 3056 Neyagawa Blvd.

Prepared for

DS Consultants

FINAL REPORT

First Page

CLIENT DETAILS

Client	DS Consultants
Address	6221 Highway 7 Unit 16 Vaughan, Ontario L4H 0K8. Canada
Contact	Kirstin Olsen
Telephone	905-264-9393
Facsimile	905-264-2685
Email	kirstin.olsen@dsconsultants.ca
Project	22-012-100, 3056 Neyagawa Blvd.
Order Number	
Samples	Soil (16)

LABORATORY DETAILS

Project Specialist	Brad Moore Hon. B.Sc
Laboratory	SGS Canada Inc.
Address	185 Concession St., Lakefield ON, K0L 2H0
Telephone	705-652-2143
Facsimile	705-652-6365
Email	brad.moore@sgs.com
SGS Reference	CA40064-JAN22
Received	01/11/2022
Approved	01/19/2022
Report Number	CA40064-JAN22 R
Date Reported	01/19/2022

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:Yes

Chain of Custody Number:024176

Dichlorodifluoromethane Matrix Spike; Recovery is outside control limits; the overall quality control for this analysis has been assessed and and was determined to be acceptable.

SIGNATORIES

Brad Moore Hon. B.Sc

PHC F4 (C34-C50) Duplicate: RPD for this parameter is outside control limits. The average of the two duplicates is less than five times the RL, therefore a greater uncertainty is expected.

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Client: DS Consultants
Project: 22-012-100, 3056 Neyagawa Blvd.
Project Manager: Kirstin Olsen
Samplers: Ryan Zhang

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	TP1-1	TP2-1	TP2-3	TP3-1	TP3-4	TP4-1	TP4-3	TP5-1
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
BTEX											
Benzene	µg/g	0.02	0.21	< 0.02	---	---	---	---	---	---	---
Ethylbenzene	µg/g	0.05	1.1	< 0.05	---	---	---	---	---	---	---
Toluene	µg/g	0.05	2.3	< 0.05	---	---	---	---	---	---	---
Xylene (total)	µg/g	0.05	3.1	< 0.05	---	---	---	---	---	---	---
m/p-xylene	µg/g	0.05		< 0.05	---	---	---	---	---	---	---
o-xylene	µg/g	0.05		< 0.05	---	---	---	---	---	---	---
Hydrides											
Antimony	µg/g	0.8	7.5	< 0.8	< 0.8	---	< 0.8	---	< 0.8	---	< 0.8
Arsenic	µg/g	0.5	18	4.4	4.2	---	6.1	---	4.6	---	5.9
Selenium	µg/g	0.7	2.4	< 0.7	< 0.7	---	< 0.7	---	< 0.7	---	< 0.7
Metals and Inorganics											
Moisture Content	%	no		15.2	13.9	9.4	16.5	10.2	15.3	13.5	15.1
Barium	µg/g	0.1	390	95	130	---	120	---	130	---	94
Beryllium	µg/g	0.02	4	0.88	0.77	---	0.87	---	0.76	---	0.80
Boron	µg/g	1	120	12	9	---	7	---	8	---	6
Cadmium	µg/g	0.05	1.2	0.10	0.10	---	0.15	---	0.28	---	0.15
Chromium	µg/g	0.5	160	24	23	---	26	---	22	---	23
Cobalt	µg/g	0.01	22	14	13	---	15	---	13	---	13
Copper	µg/g	0.1	140	14	10	---	34	---	16	---	35
Lead	µg/g	0.1	120	15	13	---	19	---	18	---	18
Molybdenum	µg/g	0.1	6.9	0.6	0.4	---	0.4	---	0.7	---	0.3

Client: DS Consultants
Project: 22-012-100, 3056 Neyagawa Blvd.
Project Manager: Kirstin Olsen
Samplers: Ryan Zhang

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	TP1-1	TP2-1	TP2-3	TP3-1	TP3-4	TP4-1	TP4-3	TP5-1
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics (continued)											
Nickel	µg/g	0.5	100	32	29	---	36	---	26	---	32
Silver	µg/g	0.05	20	< 0.05	< 0.05	---	< 0.05	---	0.09	---	< 0.05
Thallium	µg/g	0.02	1	0.11	0.10	---	0.16	---	0.13	---	0.17
Uranium	µg/g	0.002	23	0.59	0.53	---	0.56	---	0.75	---	0.55
Vanadium	µg/g	3	86	30	27	---	32	---	27	---	29
Zinc	µg/g	0.7	340	67	65	---	77	---	75	---	78
Water Soluble Boron	µg/g	0.5	1.5	< 0.5	< 0.5	---	< 0.5	---	< 0.5	---	< 0.5
Other (ORP)											
Mercury	ug/g	0.05	0.27	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Sodium Adsorption Ratio	No unit	0.2	5	0.4	0.3	---	0.4	---	0.4	---	0.2
SAR Calcium	mg/L	0.2		48.3	38.5	---	45.7	---	38.1	---	36.5
SAR Magnesium	mg/L	0.3		4.1	2.8	---	2.0	---	5.5	---	1.3
SAR Sodium	mg/L	0.1		10.7	6.0	---	10.4	---	9.4	---	5.6
Conductivity	mS/cm	0.002	0.7	0.27	0.21	---	0.25	---	0.19	---	0.17
pH	pH Units	0.05		7.63	7.65	7.80	7.61	7.76	7.52	7.59	7.71
Chromium VI	µg/g	0.2	8	< 0.2	< 0.2	---	< 0.2	---	< 0.2	---	< 0.2
Free Cyanide	µg/g	0.05	0.051	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05

Client: DS Consultants
Project: 22-012-100, 3056 Neyagawa Blvd.
Project Manager: Kirstin Olsen
Samplers: Ryan Zhang

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	TP1-1	TP2-1	TP2-3	TP3-1	TP3-4	TP4-1	TP4-3	TP5-1
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
PAHs											
Acenaphthene	µg/g	0.05	7.9	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Acenaphthylene	µg/g	0.05	0.15	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Anthracene	µg/g	0.05	0.67	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Benzo(a)anthracene	µg/g	0.05	0.5	< 0.05	< 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	---	< 0.05
Benzo(b+j)fluoranthene	µg/g	0.05	0.78	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Benzo(ghi)perylene	µg/g	0.1	6.6	< 0.1	< 0.1	---	< 0.1	---	< 0.1	---	< 0.1
Benzo(k)fluoranthene	µg/g	0.05	0.78	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Chrysene	µg/g	0.05	7	< 0.05	< 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	---	< 0.06
Fluoranthene	µg/g	0.05	0.69	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Fluorene	µg/g	0.05	62	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.1	0.38	< 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	0.99	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Naphthalene	µg/g	0.05	0.6	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Phenanthrene	µg/g	0.05	6.2	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05
Pyrene	µg/g	0.05	78	< 0.05	< 0.05	---	< 0.05	---	< 0.05	---	< 0.05

Client: DS Consultants
Project: 22-012-100, 3056 Neyagawa Blvd.
Project Manager: Kirstin Olsen
Samplers: Ryan Zhang

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number			9	10	11	12	13	14	15	16
	Sample Name			TP1-1	TP2-1	TP2-3	TP3-1	TP3-4	TP4-1	TP4-3	TP5-1
	Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date			10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
PHCs											
F1 (C6-C10)	µg/g	10	55	< 10	---	---	---	---	---	---	---
F1-BTEX (C6-C10)	µg/g	10	55	< 10	---	---	---	---	---	---	---
F2 (C10-C16)	µg/g	10	98	< 10	---	---	---	---	---	---	---
F3 (C16-C34)	µg/g	50	300	< 50	---	---	---	---	---	---	---
F4 (C34-C50)	µg/g	50	2800	< 50	---	---	---	---	---	---	---
Chromatogram returned to baseline at nC50	Yes / No	no		YES	---	---	---	---	---	---	---
SVOC Surrogates											
Surr Nitrobenzene-d5	Surr Rec %	no		91	90	---	84	---	93	---	90
Surr 2-Fluorobiphenyl	Surr Rec %	no		85	85	---	86	---	90	---	84
Surr 4-Terphenyl-d14	Surr Rec %	no		95	95	---	92	---	109	---	98
Surr 2-Fluorophenol	Surr Rec %	no		86	85	---	80	---	90	---	84
Surr Phenol-d6	Surr Rec %	no		90	88	---	84	---	92	---	88
Surr 2,4,6-Tribromophenol	Surr Rec %	no		85	88	---	86	---	95	---	85

Client: DS Consultants
Project: 22-012-100, 3056 Neyagawa Blvd.
Project Manager: Kirstin Olsen
Samplers: Ryan Zhang

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	TP1-1	TP2-1	TP2-3	TP3-1	TP3-4	TP4-1	TP4-3	TP5-1
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
THMs (VOC)											
Bromodichloromethane	µg/g	0.05	1.5	< 0.05	---	---	---	---	---	---	---
Bromoform	µg/g	0.05	0.27	< 0.05	---	---	---	---	---	---	---
Dibromochloromethane	µg/g	0.05	2.3	< 0.05	---	---	---	---	---	---	---
VOC Surrogates											
Surr 1,2-Dichloroethane-d4	Surr Rec %	no		100	---	---	---	---	---	---	---
Surr 4-Bromofluorobenzene	Surr Rec %	no		91	---	---	---	---	---	---	---
Surr 2-Bromo-1-Chloropropane	Surr Rec %	no		87	---	---	---	---	---	---	---
VOCs											
Acetone	µg/g	0.5	16	< 0.5	---	---	---	---	---	---	---
Bromomethane	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	---	---
Carbon tetrachloride	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	---	---
Chlorobenzene	µg/g	0.05	2.4	< 0.05	---	---	---	---	---	---	---
Chloroform	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	---	---
1,2-Dichlorobenzene	µg/g	0.05	1.2	< 0.05	---	---	---	---	---	---	---
1,3-Dichlorobenzene	µg/g	0.05	4.8	< 0.05	---	---	---	---	---	---	---
1,4-Dichlorobenzene	µg/g	0.05	0.083	< 0.05	---	---	---	---	---	---	---
Dichlorodifluoromethane	µg/g	0.05	16	< 0.05	---	---	---	---	---	---	---
1,1-Dichloroethane	µg/g	0.05	0.47	< 0.05	---	---	---	---	---	---	---
1,2-Dichloroethane	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	---	---
1,1-Dichloroethylene	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	---	---
trans-1,2-Dichloroethylene	µg/g	0.05	0.084	< 0.05	---	---	---	---	---	---	---

Client: DS Consultants
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Samplers: Ryan Zhang

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	TP1-1	TP2-1	TP2-3	TP3-1	TP3-4	TP4-1	TP4-3	TP5-1
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOCs (continued)											
cis-1,2-Dichloroethylene	µg/g	0.05	1.9	< 0.05	---	---	---	---	---	---	---
1,2-Dichloropropane	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	---	---
cis-1,3-dichloropropene	µg/g	0.03		< 0.03	---	---	---	---	---	---	---
trans-1,3-dichloropropene	µg/g	0.03		< 0.03	---	---	---	---	---	---	---
1,3-dichloropropene (total)	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	---	---
Ethylenedibromide	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	---	---
n-Hexane	µg/g	0.05	2.8	< 0.05	---	---	---	---	---	---	---
Methyl ethyl ketone	µg/g	0.5	16	< 0.5	---	---	---	---	---	---	---
Methyl isobutyl ketone	µg/g	0.5	1.7	< 0.5	---	---	---	---	---	---	---
Methyl-t-butyl Ether	µg/g	0.05	0.75	< 0.05	---	---	---	---	---	---	---
Methylene Chloride	µg/g	0.05	0.1	< 0.05	---	---	---	---	---	---	---
Styrene	µg/g	0.05	0.7	< 0.05	---	---	---	---	---	---	---
Tetrachloroethylene	µg/g	0.05	0.28	< 0.05	---	---	---	---	---	---	---
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.058	< 0.05	---	---	---	---	---	---	---
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	---	---
1,1,1-Trichloroethane	µg/g	0.05	0.38	< 0.05	---	---	---	---	---	---	---
1,1,2-Trichloroethane	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	---	---
Trichloroethylene	µg/g	0.05	0.061	< 0.05	---	---	---	---	---	---	---
Trichlorofluoromethane	µg/g	0.05	4	< 0.05	---	---	---	---	---	---	---
Vinyl Chloride	µg/g	0.02	0.02	< 0.02	---	---	---	---	---	---	---

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Samplers: Ryan Zhang

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number	17	18	19	20	21	22	23	24
	Sample Name	TP5-4	TP6-1	TP6-2	TP6-3	TP7-1	TP7-2	TP7-4	TP8-1
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
BTEX											
Benzene	µg/g	0.02	0.21	< 0.02	---	---	---	---	---	< 0.02	---
Ethylbenzene	µg/g	0.05	1.1	< 0.05	---	---	---	---	---	< 0.05	---
Toluene	µg/g	0.05	2.3	< 0.05	---	---	---	---	---	< 0.05	---
Xylene (total)	µg/g	0.05	3.1	< 0.05	---	---	---	---	---	< 0.05	---
m/p-xylene	µg/g	0.05		< 0.05	---	---	---	---	---	< 0.05	---
o-xylene	µg/g	0.05		< 0.05	---	---	---	---	---	< 0.05	---
Hydrides											
Antimony	µg/g	0.8	7.5	---	---	< 0.8	---	< 0.8	---	---	< 0.8
Arsenic	µg/g	0.5	18	---	---	4.9	---	4.9	---	---	6.8
Selenium	µg/g	0.7	2.4	---	---	< 0.7	---	< 0.7	---	---	< 0.7
Metals and Inorganics											
Moisture Content	%	no		8.4	12.1	10.4	10.5	12.5	11.8	8.7	19.1
Barium	µg/g	0.1	390	---	---	110	---	94	---	---	140
Beryllium	µg/g	0.02	4	---	---	0.60	---	0.65	---	---	1.1
Boron	µg/g	1	120	---	---	8	---	7	---	---	6
Cadmium	µg/g	0.05	1.2	---	---	0.11	---	0.12	---	---	0.20
Chromium	µg/g	0.5	160	---	---	19	---	20	---	---	28
Cobalt	µg/g	0.01	22	---	---	12	---	12	---	---	17
Copper	µg/g	0.1	140	---	---	27	---	26	---	---	35
Lead	µg/g	0.1	120	---	---	11	---	11	---	---	17
Molybdenum	µg/g	0.1	6.9	---	---	0.4	---	0.3	---	---	0.5

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number	17	18	19	20	21	22	23	24
	Sample Name	TP5-4	TP6-1	TP6-2	TP6-3	TP7-1	TP7-2	TP7-4	TP8-1
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics (continued)											
Nickel	µg/g	0.5	100	---	---	27	---	26	---	---	37
Silver	µg/g	0.05	20	---	---	< 0.05	---	< 0.05	---	---	< 0.05
Thallium	µg/g	0.02	1	---	---	0.15	---	0.15	---	---	0.17
Uranium	µg/g	0.002	23	---	---	0.62	---	0.54	---	---	0.67
Vanadium	µg/g	3	86	---	---	25	---	25	---	---	35
Zinc	µg/g	0.7	340	---	---	63	---	68	---	---	82
Water Soluble Boron	µg/g	0.5	1.5	---	---	< 0.5	---	< 0.5	---	---	< 0.5
Other (ORP)											
Mercury	ug/g	0.05	0.27	---	---	< 0.05	---	< 0.05	---	---	< 0.05
Sodium Adsorption Ratio	No unit	0.2	5	---	---	0.3	---	0.4	---	---	0.5
SAR Calcium	mg/L	0.2		---	---	25.1	---	48.0	---	---	31.4
SAR Magnesium	mg/L	0.3		---	---	2.9	---	5.9	---	---	4.0
SAR Sodium	mg/L	0.1		---	---	6.6	---	11.8	---	---	11.3
Conductivity	mS/cm	0.002	0.7	---	---	0.14	---	0.14	---	---	0.20
pH	pH Units	0.05		---	---	7.79	---	7.77	---	---	7.27
Chromium VI	µg/g	0.2	8	---	---	< 0.2	---	< 0.2	---	---	< 0.2
Free Cyanide	µg/g	0.05	0.051	---	---	< 0.05	---	< 0.05	---	---	< 0.05

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

Sample Number				17	18	19	20	21	22	23	24
Sample Name				TP5-4	TP6-1	TP6-2	TP6-3	TP7-1	TP7-2	TP7-4	TP8-1
Sample Matrix				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Date				10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
PAHs											
Acenaphthene	µg/g	0.05	7.9	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Acenaphthylene	µg/g	0.05	0.15	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Anthracene	µg/g	0.05	0.67	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Benzo(a)anthracene	µg/g	0.05	0.5	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Benzo(a)pyrene	µg/g	0.05	0.3	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Benzo(b+j)fluoranthene	µg/g	0.05	0.78	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Benzo(ghi)perylene	µg/g	0.1	6.6	---	< 0.1	---	---	---	< 0.1	---	< 0.1
Benzo(k)fluoranthene	µg/g	0.05	0.78	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Chrysene	µg/g	0.05	7	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Dibenzo(a,h)anthracene	µg/g	0.06	0.1	---	< 0.06	---	---	---	< 0.06	---	< 0.06
Fluoranthene	µg/g	0.05	0.69	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Fluorene	µg/g	0.05	62	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.1	0.38	---	< 0.1	---	---	---	< 0.1	---	< 0.1
1-Methylnaphthalene	µg/g	0.05		---	< 0.05	---	---	---	< 0.05	---	< 0.05
2-Methylnaphthalene	µg/g	0.05		---	< 0.05	---	---	---	< 0.05	---	< 0.05
Methylnaphthalene, 2-(1-)	µg/g	0.05	0.99	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Naphthalene	µg/g	0.05	0.6	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Phenanthrene	µg/g	0.05	6.2	---	< 0.05	---	---	---	< 0.05	---	< 0.05
Pyrene	µg/g	0.05	78	---	< 0.05	---	---	---	< 0.05	---	< 0.05

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MATRIX: SOIL

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			Sample Number	17	18	19	20	21	22	23	24
			Sample Name	TP5-4	TP6-1	TP6-2	TP6-3	TP7-1	TP7-2	TP7-4	TP8-1
			Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
			Sample Date	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
PHCs											
F1 (C6-C10)	µg/g	10	55	< 10	---	---	---	---	---	< 10	---
F1-BTEX (C6-C10)	µg/g	10	55	< 10	---	---	---	---	---	< 10	---
F2 (C10-C16)	µg/g	10	98	< 10	---	---	---	---	---	< 10	---
F3 (C16-C34)	µg/g	50	300	< 50	---	---	---	---	---	< 50	---
F4 (C34-C50)	µg/g	50	2800	< 50	---	---	---	---	---	< 50	---
Chromatogram returned to baseline at nC50	Yes / No	no		YES	---	---	---	---	---	YES	---
SVOC Surrogates											
Surr Nitrobenzene-d5	Surr Rec %	no		---	92	---	---	---	91	---	90
Surr 2-Fluorobiphenyl	Surr Rec %	no		---	90	---	---	---	90	---	90
Surr 4-Terphenyl-d14	Surr Rec %	no		---	99	---	---	---	101	---	99
Surr 2-Fluorophenol	Surr Rec %	no		---	87	---	---	---	86	---	88
Surr Phenol-d6	Surr Rec %	no		---	90	---	---	---	90	---	92
Surr 2,4,6-Tribromophenol	Surr Rec %	no		---	92	---	---	---	89	---	91

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MATRIX: SOIL

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	Sample Number	17	18	19	20	21	22	23	24
	Sample Name	TP5-4	TP6-1	TP6-2	TP6-3	TP7-1	TP7-2	TP7-4	TP8-1
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
THMs (VOC)											
Bromodichloromethane	µg/g	0.05	1.5	< 0.05	---	---	---	---	---	< 0.05	---
Bromoform	µg/g	0.05	0.27	< 0.05	---	---	---	---	---	< 0.05	---
Dibromochloromethane	µg/g	0.05	2.3	< 0.05	---	---	---	---	---	< 0.05	---
VOC Surrogates											
Surr 1,2-Dichloroethane-d4	Surr Rec %	no		100	---	---	---	---	---	100	---
Surr 4-Bromofluorobenzene	Surr Rec %	no		90	---	---	---	---	---	90	---
Surr 2-Bromo-1-Chloropropane	Surr Rec %	no		86	---	---	---	---	---	86	---
VOCs											
Acetone	µg/g	0.5	16	< 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	2.4	< 0.05	---	---	---	---	---	< 0.05	---
Chloroform	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	< 0.05	---
1,2-Dichlorobenzene	µg/g	0.05	1.2	< 0.05	---	---	---	---	---	< 0.05	---
1,3-Dichlorobenzene	µg/g	0.05	4.8	< 0.05	---	---	---	---	---	< 0.05	---
1,4-Dichlorobenzene	µg/g	0.05	0.083	< 0.05	---	---	---	---	---	< 0.05	---
Dichlorodifluoromethane	µg/g	0.05	16	< 0.05	---	---	---	---	---	< 0.05	---
1,1-Dichloroethane	µg/g	0.05	0.47	< 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	0.084	< 0.05	---	---	---	---	---	< 0.05	---

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

Sample Number				17	18	19	20	21	22	23	24
Sample Name				TP5-4	TP6-1	TP6-2	TP6-3	TP7-1	TP7-2	TP7-4	TP8-1
Sample Matrix				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Sample Date				10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022	10/01/2022
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOCs (continued)											
cis-1,2-Dichloroethylene	µg/g	0.05	1.9	< 0.05	---	---	---	---	---	< 0.05	---
1,2-Dichloropropane	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	< 0.05	---
cis-1,3-dichloropropene	µg/g	0.03		< 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	2.8	< 0.05	---	---	---	---	---	< 0.05	---
Methyl ethyl ketone	µg/g	0.5	16	< 0.5	---	---	---	---	---	< 0.5	---
Methyl isobutyl ketone	µg/g	0.5	1.7	< 0.5	---	---	---	---	---	< 0.5	---
Methyl-t-butyl Ether	µg/g	0.05	0.75	< 0.05	---	---	---	---	---	< 0.05	---
Methylene Chloride	µg/g	0.05	0.1	< 0.05	---	---	---	---	---	< 0.05	---
Styrene	µg/g	0.05	0.7	< 0.05	---	---	---	---	---	< 0.05	---
Tetrachloroethylene	µg/g	0.05	0.28	< 0.05	---	---	---	---	---	< 0.05	---
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.058	< 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	0.38	< 0.05	---	---	---	---	---	< 0.05	---
1,1,2-Trichloroethane	µg/g	0.05	0.05	< 0.05	---	---	---	---	---	< 0.05	---
Trichloroethylene	µg/g	0.05	0.061	< 0.05	---	---	---	---	---	< 0.05	---
Trichlorofluoromethane	µg/g	0.05	4	< 0.05	---	---	---	---	---	< 0.05	---
Vinyl Chloride	µg/g	0.02	0.02	< 0.02	---	---	---	---	---	< 0.02	---

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
Conductivity								
Method: EPA 6010/SM 2510 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-006								
TP1-1	EWL0167-JAN22	9	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP2-1	EWL0167-JAN22	10	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP2-3		11	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP3-1	EWL0167-JAN22	12	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP3-4		13	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP4-1	EWL0167-JAN22	14	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP4-3		15	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP5-1	EWL0167-JAN22	16	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP5-4		17	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP6-1		18	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP6-2	EWL0167-JAN22	19	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP6-3		20	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP7-1	EWL0167-JAN22	21	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP7-2		22	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP7-4		23	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
TP8-1	EWL0167-JAN22	24	01/10/2022	01/11/2022	01/12/2022	01/13/2022	02/07/2022	01/13/2022
Cyanide by SFA								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-005								
TP1-1	SKA5029-JAN22	9	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP2-1	SKA5029-JAN22	10	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP2-3		11	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP3-1	SKA5029-JAN22	12	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP3-4		13	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP4-1	SKA5029-JAN22	14	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP4-3		15	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP5-1	SKA5029-JAN22	16	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP5-4		17	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP6-1		18	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP6-2	SKA5029-JAN22	19	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP6-3		20	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP7-1	SKA5029-JAN22	21	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP7-2		22	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP7-4		23	01/10/2022	01/11/2022			01/24/2022	01/14/2022
TP8-1	SKA5029-JAN22	24	01/10/2022	01/11/2022			01/24/2022	01/14/2022
Hexavalent Chromium by SFA								
Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012								
TP1-1	SKA5044-JAN22	9	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Hexavalent Chromium by SFA (continued)								
Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012								
TP2-1	SKA5044-JAN22	10	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP2-3		11	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP3-1	SKA5044-JAN22	12	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP3-4		13	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP4-1	SKA5044-JAN22	14	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP4-3		15	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP5-1	SKA5044-JAN22	16	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP5-4		17	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP6-1		18	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP6-2	SKA5044-JAN22	19	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP6-3		20	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP7-1	SKA5044-JAN22	21	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP7-2		22	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP7-4		23	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
TP8-1	SKA5044-JAN22	24	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/09/2022	01/18/2022
Mercury by CVAAS								
Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004								
TP1-1	EMS0108-JAN22	9	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP2-1	EMS0108-JAN22	10	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP2-3		11	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP3-1	EMS0108-JAN22	12	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP3-4		13	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP4-1	EMS0108-JAN22	14	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP4-3		15	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP5-1	EMS0108-JAN22	16	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP5-4		17	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP6-1		18	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP6-2	EMS0108-JAN22	19	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP6-3		20	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP7-1	EMS0108-JAN22	21	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP7-2		22	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP7-4		23	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
TP8-1	EMS0108-JAN22	24	01/10/2022	01/11/2022	01/18/2022	01/18/2022	02/07/2022	01/18/2022
Metals in aqueous samples - ICP-OES								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-003								
TP1-1	ESG0026-JAN22	9	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP2-1	ESG0026-JAN22	10	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Metals in aqueous samples - ICP-OES (continued)								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-003								
TP2-3		11	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP3-1	ESG0026-JAN22	12	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP3-4		13	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP4-1	ESG0026-JAN22	14	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP4-3		15	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP5-1	ESG0026-JAN22	16	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP5-4		17	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP6-1		18	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP6-2	ESG0026-JAN22	19	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP6-3		20	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP7-1	ESG0026-JAN22	21	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP7-2		22	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP7-4		23	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP8-1	ESG0026-JAN22	24	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
Metals in Soil - Aqua-regia/ICP-MS								
Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-005								
TP1-1	EMS0108-JAN22	9	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP2-1	EMS0108-JAN22	10	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP2-3		11	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP3-1	EMS0108-JAN22	12	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP3-4		13	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP4-1	EMS0108-JAN22	14	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP4-3		15	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP5-1	EMS0108-JAN22	16	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP5-4		17	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP6-1		18	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP6-2	EMS0108-JAN22	19	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP6-3		20	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP7-1	EMS0108-JAN22	21	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP7-2		22	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP7-4		23	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
TP8-1	EMS0108-JAN22	24	01/10/2022	01/11/2022	01/18/2022	01/18/2022	07/09/2022	01/18/2022
Moisture								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
TP1-1	GCM0113-JAN22	9	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP2-1	GCM0113-JAN22	10	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP2-3	GCM0113-JAN22	11	01/10/2022	01/11/2022			03/11/2022	01/13/2022

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								
TP3-1	GCM0113-JAN22	12	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP3-4	GCM0113-JAN22	13	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP4-1	GCM0113-JAN22	14	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP4-3	GCM0113-JAN22	15	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP5-1	GCM0113-JAN22	16	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP5-4	GCM0113-JAN22	17	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP6-1	GCM0113-JAN22	18	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP6-2	GCM0113-JAN22	19	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP6-3	GCM0113-JAN22	20	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP7-1	GCM0113-JAN22	21	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP7-2	GCM0113-JAN22	22	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP7-4	GCM0113-JAN22	23	01/10/2022	01/11/2022			03/11/2022	01/13/2022
TP8-1	GCM0113-JAN22	24	01/10/2022	01/11/2022			03/11/2022	01/13/2022
Petroleum Hydrocarbons (F1)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
TP1-1	GCM0115-JAN22	9	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP2-1		10	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP2-3		11	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP3-1		12	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP3-4		13	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP4-1		14	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP4-3		15	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP5-1		16	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP5-4	GCM0115-JAN22	17	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP6-1		18	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP6-2		19	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP6-3		20	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP7-1		21	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP7-2		22	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP7-4	GCM0115-JAN22	23	01/10/2022	01/11/2022			01/24/2022	01/13/2022
TP8-1		24	01/10/2022	01/11/2022			01/24/2022	01/13/2022
Petroleum Hydrocarbons (F2-F4)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
TP1-1	GCM0145-JAN22	9	01/10/2022	01/11/2022			01/24/2022	01/19/2022
TP2-1		10	01/10/2022	01/11/2022			02/19/2022	01/19/2022
TP2-3		11	01/10/2022	01/11/2022			01/24/2022	01/19/2022
TP3-1		12	01/10/2022	01/11/2022			01/24/2022	01/19/2022

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Petroleum Hydrocarbons (F2-F4) (continued)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
TP3-4		13	01/10/2022	01/11/2022			01/24/2022	01/19/2022
TP4-1		14	01/10/2022	01/11/2022			01/24/2022	01/19/2022
TP4-3		15	01/10/2022	01/11/2022			02/19/2022	01/19/2022
TP5-1		16	01/10/2022	01/11/2022			01/24/2022	01/19/2022
TP5-4	GCM0145-JAN22	17	01/10/2022	01/11/2022			01/24/2022	01/19/2022
TP6-1		18	01/10/2022	01/11/2022			01/24/2022	01/19/2022
TP6-2		19	01/10/2022	01/11/2022			02/19/2022	01/19/2022
TP6-3		20	01/10/2022	01/11/2022			02/19/2022	01/19/2022
TP7-1		21	01/10/2022	01/11/2022			01/24/2022	01/19/2022
TP7-2		22	01/10/2022	01/11/2022			01/24/2022	01/19/2022
TP7-4	GCM0145-JAN22	23	01/10/2022	01/11/2022			02/19/2022	01/19/2022
TP8-1		24	01/10/2022	01/11/2022			02/19/2022	01/19/2022
pH								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-001								
TP1-1	ARD0059-JAN22	9	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP2-1	ARD0059-JAN22	10	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP2-3	ARD0059-JAN22	11	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP3-1	ARD0059-JAN22	12	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP3-4	ARD0059-JAN22	13	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP4-1	ARD0059-JAN22	14	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP4-3	ARD0059-JAN22	15	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP5-1	ARD0059-JAN22	16	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP5-4		17	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP6-1		18	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP6-2	ARD0059-JAN22	19	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP6-3		20	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP7-1	ARD0059-JAN22	21	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP7-2		22	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP7-4		23	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
TP8-1	ARD0059-JAN22	24	01/10/2022	01/11/2022	01/12/2022	01/12/2022	02/09/2022	01/12/2022
Semi-Volatile Organics								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-005								
TP1-1	GCM0103-JAN22	9	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP2-1	GCM0103-JAN22	10	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP2-3		11	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP3-1	GCM0103-JAN22	12	01/10/2022	01/11/2022	01/12/2022	01/12/2022	03/11/2022	01/14/2022
TP3-4		13	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022

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								
TP4-1	GCM0103-JAN22	14	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP4-3		15	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP5-1	GCM0103-JAN22	16	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP5-4		17	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP6-1	GCM0103-JAN22	18	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP6-2		19	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP6-3		20	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP7-1		21	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP7-2	GCM0103-JAN22	22	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/14/2022
TP7-4		23	01/10/2022	01/11/2022	01/12/2022	01/12/2022	03/11/2022	01/14/2022
TP8-1	GCM0103-JAN22	24	01/10/2022	01/11/2022	01/12/2022	01/12/2022	03/11/2022	01/14/2022
Sodium adsorption ratio (SAR)								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]ARD-LAK-AN-021								
TP1-1		9	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP2-1		10	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP2-3		11	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP3-1		12	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP3-4		13	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP4-1		14	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP4-3		15	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP5-1		16	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP5-4		17	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP6-1		18	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP6-2		19	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP6-3		20	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP7-1		21	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP7-2		22	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP7-4		23	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
TP8-1		24	01/10/2022	01/11/2022	01/13/2022	01/13/2022	07/09/2022	01/13/2022
Volatile Organics								
Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-[ENV]GC-LAK-AN-004								
TP1-1	GCM0114-JAN22	9	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP2-1		10	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP2-3		11	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP3-1		12	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP3-4		13	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP4-1		14	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Volatile Organics (continued)								
Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-[ENV]GC-LAK-AN-004								
TP4-3		15	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP5-1		16	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP5-4	GCM0114-JAN22	17	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP6-1		18	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP6-2		19	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP6-3		20	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP7-1		21	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP7-2		22	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP7-4	GCM0114-JAN22	23	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
TP8-1		24	01/10/2022	01/11/2022	01/12/2022	01/12/2022	01/24/2022	01/13/2022
Water Soluble Boron								
Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-[ENV] SPE-LAK-AN-003								
TP1-1	ESG0032-JAN22	9	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP2-1	ESG0032-JAN22	10	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP2-3		11	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP3-1	ESG0032-JAN22	12	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP3-4		13	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP4-1	ESG0032-JAN22	14	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP4-3		15	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP5-1	ESG0032-JAN22	16	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP5-4		17	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP6-1		18	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP6-2	ESG0032-JAN22	19	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP6-3		20	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP7-1	ESG0032-JAN22	21	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP7-2		22	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP7-4		23	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022
TP8-1	ESG0032-JAN22	24	01/10/2022	01/11/2022	01/17/2022	01/17/2022	07/09/2022	01/17/2022

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	EWL0167-JAN22	mS/cm	0.002	<0.002	0	10	99	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	SKA5029-JAN22	µg/g	0.05	<0.05	ND	20	105	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	SKA5044-JAN22	ug/g	0.2	<0.2	ND	20	103	80	120	98	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	EMS0108-JAN22	ug/g	0.05	<0.05	ND	20	94	80	120	96	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	ESG0026-JAN22	mg/L	0.2	<0.09	1	20	104	80	120	NV	70	130
SAR Magnesium	ESG0026-JAN22	mg/L	0.3	<0.02	9	20	103	80	120	NV	70	130
SAR Sodium	ESG0026-JAN22	mg/L	0.1	<0.15	4	20	98	80	120	NV	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	EMS0108-JAN22	ug/g	0.05	<0.05	ND	20	97	70	130	106	70	130
Arsenic	EMS0108-JAN22	µg/g	0.5	<0.5	2	20	92	70	130	106	70	130
Barium	EMS0108-JAN22	ug/g	0.1	<0.1	0	20	102	70	130	93	70	130
Beryllium	EMS0108-JAN22	µg/g	0.02	<0.02	1	20	95	70	130	101	70	130
Boron	EMS0108-JAN22	µg/g	1	<1	2	20	100	70	130	98	70	130
Cadmium	EMS0108-JAN22	ug/g	0.05	<0.05	9	20	95	70	130	105	70	130
Cobalt	EMS0108-JAN22	µg/g	0.01	<0.01	3	20	94	70	130	112	70	130
Chromium	EMS0108-JAN22	µg/g	0.5	<0.5	1	20	93	70	130	110	70	130
Copper	EMS0108-JAN22	µg/g	0.1	<0.1	1	20	97	70	130	108	70	130
Molybdenum	EMS0108-JAN22	µg/g	0.1	<0.1	3	20	94	70	130	95	70	130
Nickel	EMS0108-JAN22	ug/g	0.5	<0.5	1	20	99	70	130	110	70	130
Lead	EMS0108-JAN22	ug/g	0.1	<0.1	2	20	100	70	130	101	70	130
Antimony	EMS0108-JAN22	µg/g	0.8	<0.8	ND	20	106	70	130	121	70	130
Selenium	EMS0108-JAN22	µg/g	0.7	<0.7	ND	20	92	70	130	100	70	130
Thallium	EMS0108-JAN22	µg/g	0.02	<0.02	7	20	99	70	130	105	70	130
Uranium	EMS0108-JAN22	µg/g	0.002	<0.002	1	20	94	70	130	126	70	130
Vanadium	EMS0108-JAN22	µg/g	3	<3	0	20	94	70	130	109	70	130
Zinc	EMS0108-JAN22	µg/g	0.7	<0.7	1	20	96	70	130	109	70	130

QC SUMMARY

Petroleum Hydrocarbons (F1)

Method: CCME Tier 1 I Internal ref.: ME-CA-[ENVIGC-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)	GCM0115-JAN22	µg/g	10	<10	ND	30	107	80	120	92	60	140

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 I Internal ref.: ME-CA-[ENVIGC-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)	GCM0145-JAN22	µg/g	10	<10	ND	30	110	80	120	91	60	140
F3 (C16-C34)	GCM0145-JAN22	µg/g	50	<50	11	30	110	80	120	91	60	140
F4 (C34-C50)	GCM0145-JAN22	µg/g	50	<50	68	30	110	80	120	91	60	140

QC SUMMARY

pH

Method: SM 4500 I 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	ARD0059-JAN22	pH Units	0.05		1	20	100	80	120			

QC SUMMARY

Semi-Volatile Organics

Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENVIGC-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	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	91	50	140	89	50	140
2-Methylnaphthalene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	87	50	140	85	50	140
Acenaphthene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	96	50	140	93	50	140
Acenaphthylene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	89	50	140	87	50	140
Anthracene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	92	50	140	88	50	140
Benzo(a)anthracene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	91	50	140	88	50	140
Benzo(a)pyrene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	83	50	140	80	50	140
Benzo(b+j)fluoranthene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	87	50	140	84	50	140
Benzo(ghi)perylene	GCM0103-JAN22	µg/g	0.1	< 0.1	ND	40	89	50	140	84	50	140
Benzo(k)fluoranthene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	89	50	140	86	50	140
Chrysene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	94	50	140	90	50	140
Dibenzo(a,h)anthracene	GCM0103-JAN22	µg/g	0.06	< 0.06	ND	40	87	50	140	83	50	140
Fluoranthene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	92	50	140	89	50	140
Fluorene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	94	50	140	91	50	140
Indeno(1,2,3-cd)pyrene	GCM0103-JAN22	µg/g	0.1	< 0.1	ND	40	90	50	140	85	50	140
Naphthalene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	92	50	140	90	50	140
Phenanthrene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	92	50	140	89	50	140
Pyrene	GCM0103-JAN22	µg/g	0.05	< 0.05	ND	40	94	50	140	90	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	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	93	60	130	93	50	140
1,1,1-Trichloroethane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	91	60	130	91	50	140
1,1,2,2-Tetrachloroethane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	93	60	130	97	50	140
1,1,2-Trichloroethane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	95	60	130	97	50	140
1,1-Dichloroethane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	85	60	130	97	50	140
1,1-Dichloroethylene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	88	60	130	92	50	140
1,2-Dichlorobenzene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	93	60	130	94	50	140
1,2-Dichloroethane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	90	60	130	92	50	140
1,2-Dichloropropane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	90	60	130	94	50	140
1,3-Dichlorobenzene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	93	60	130	93	50	140
1,4-Dichlorobenzene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	92	60	130	92	50	140
Acetone	GCM0114-JAN22	µg/g	0.5	< 0.5	18	50	94	50	140	103	50	140
Benzene	GCM0114-JAN22	µg/g	0.02	< 0.02	ND	50	91	60	130	92	50	140
Bromodichloromethane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	90	60	130	89	50	140
Bromoform	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	91	60	130	87	50	140
Bromomethane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	85	50	140	79	50	140
Carbon tetrachloride	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	90	60	130	88	50	140
Chlorobenzene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	91	60	130	93	50	140
Chloroform	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	92	60	130	93	50	140
cis-1,2-Dichloroethylene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	91	60	130	92	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	GCM0114-JAN22	µg/g	0.03	< 0.03	ND	50	90	60	130	86	50	140
Dibromochloromethane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	91	60	130	89	50	140
Dichlorodifluoromethane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	63	50	140	49	50	140
Ethylbenzene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	91	60	130	92	50	140
Ethylenedibromide	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	92	60	130	92	50	140
n-Hexane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	88	60	130	74	50	140
m/p-xylene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	89	60	130	90	50	140
Methyl ethyl ketone	GCM0114-JAN22	µg/g	0.5	< 0.5	ND	50	93	50	140	101	50	140
Methyl isobutyl ketone	GCM0114-JAN22	µg/g	0.5	< 0.5	ND	50	92	50	140	99	50	140
Methyl-t-butyl Ether	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	96	60	130	102	50	140
Methylene Chloride	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	89	60	130	95	50	140
o-xylene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	93	60	130	94	50	140
Styrene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	91	60	130	93	50	140
Tetrachloroethylene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	90	60	130	87	50	140
Toluene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	90	60	130	90	50	140
trans-1,2-Dichloroethylene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	89	60	130	93	50	140
trans-1,3-dichloropropene	GCM0114-JAN22	µg/g	0.03	< 0.03	ND	50	91	60	130	85	50	140
Trichloroethylene	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	89	60	130	87	50	140
Trichlorofluoromethane	GCM0114-JAN22	µg/g	0.05	< 0.05	ND	50	87	50	140	98	50	140
Vinyl Chloride	GCM0114-JAN22	µg/g	0.02	< 0.02	ND	50	80	50	140	78	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	ESG0032-JAN22	µg/g	0.5	<0.5	ND	20	110	80	120	103	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 --

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: 024176 Page 1 of 2

Laboratory Information Section - Lab use only

Received By: EO Weymaker
Received Date: 1 / VL / 22 (mm/dd/yy)
Received Time: VI : 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) 5.X 3
LAB LIMS #: CA 40064-JAN22

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☐ (same as Report Information)
Contact: Kirstin Olsen	Company: DS Accountant
Address: 6221 Hwy 7 Unit 16	Contact:
	Address:
Phone: 905 264 9393	Phone:
Fax:	Email:
Email: kirstin.olsen@dsconsultants.ca	

Quotation #: P.O. #:
Project #: 22-012-1a Site Location/ID: 3056 Navigation Blvd

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: ☐ Table 2 ☐ Ind/Com ☑ Coarse ☐ Table 3 ☐ Agri/Other ☐ Medium/Fine ☐ Table ____ Appx. ____
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
1	TP1-1	Jan 10 2022	AM	4	Soil
2	TP2-1				
3	TP2-3				
4	TP3-1				
5	TP3-4				
6	TP4-1				
7	TP4-3				
8	TP5-1				
9	TP5-4				
10	TP6-1				
11	TP6-2				
12	TP6-3				

	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 mo BTEX	VOC: VOCs all incl BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other (please specify)	Other	Other	Other	Sewer Use: Specify pkg:	Water Characterization Pkg General ☐ Extended ☐	SPLP Specify tests	TCLP Specify tests	COMMENTS:
	N												ORP	PHT						
1		X			X				X	X			X							
2		X			X								X							
3														X						
4		X			X								X							
5														X						
6		X			X								X							
7														X						
8		X			X								X							
9									X	X										
10					X															
11		X											X							
12														X						

Observations/Comments/Special Instructions

Sampled By (NAME): Ryan Zhang	Signature:	Date: Jan 10, 2022 (mm/dd/yy)	Pink Copy - Client
Relinquished by (NAME): Ryan Zhang	Signature:	Date: Jan 10, 2022 (mm/dd/yy)	Yellow & White Copy - SGS

Revision #: 1.5
Date of Issue: 11 June 2021

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:

Page 1 of 2

Laboratory Information Section - Lab use only

Received By: ED WEYMARK
Received By (signature):
Received Date: 1 / 11 / 22 (mm/dd/yy)
Received Time: 12 : 46 (hr : min)
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ICE
Temperature Upon Receipt (°C) 6 . X . 3
LAB LIMS #:

REPORT INFORMATION

Company: DS Consultants
Contact: ~~efuange khumbah~~ Kirstin Olsen
Address: 6221 Hwy 7, Unit 16, Vaughan, Ontario
Phone: 905 264 9393
Fax: Kirstin.olsen@dsconsultants.ca
Email: ~~efuange.khumbah~~@dsconsultants.ca

INVOICE INFORMATION

☐ (same as Report Information)
Company: DS accountant.
Contact:
Address:
Phone:
Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 22-012-100
Site Location/ID: 7056 Heyingawa Blvd

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 ☐ Soil Texture: ☑ Table 2 ☐ Ind/Com ☑ Coarse ☐ Table 3 ☐ Agri/Other ☐ Medium/Fine ☐ Table ____

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	M&I: 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): 1,2,4-TCB	Other: Sewer Use: Specify pkg:	Other: Water Characterization Pkg General ☐ Extended ☐	TCLP: Specify TCLP tests ☐M&I ☐VOC ☐PCB ☐B(a)P ☐ABN ☐gnlt.	COMMENTS:
1	TP 7 -1	Jan 10 2022	am		Soil Sample		X											X				
2	TP 7 -2									X												
3	TP 7 -4													X	X							
4	TP 8 -1						X			X								X				
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Observations/Comments/Special Instructions

Sampled By (NAME): Ryan Lyons Signature: Date: Jan 10, 2022 (mm/dd/yy)
Relinquished by (NAME): Ryan Lyons Signature: Date: Jan 12, 2022 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.3
Date of Issue: 13 Oct, 2019

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FINAL REPORT

CA40197-JUN23 R

22-012-101, 3056 Neyagawa Blvd, Oakville

Prepared for

DS Consultants

FINAL REPORT

CA40197-JUN23 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 6 Vaughan, Ontario L4H 0K8. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Fahmida Anwar	Telephone	2165
Telephone	647-879-3866	Facsimile	705-652-6365
Facsimile		Email	jill.campbell@sgs.com
Email	fanwar@dsconsultants.ca	SGS Reference	CA40197-JUN23
Project	22-012-101, 3056 Neyagawa Blvd, Oakville	Received	06/20/2023
Order Number		Approved	06/29/2023
Samples	Soil (17)	Report Number	CA40197-JUN23 R
		Date Reported	06/29/2023

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.

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:yes

Chain of Custody Number:NA

BH23-17 SS1: TCMX surrogate was slightly low for pesticide analysis, which is likely due to sample matrix. Decachlorobiphenyl surrogate was fine.

SIGNATORIES

Jill Campbell, B.Sc.,GISAS

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Client: DS Consultants

Project: 22-012-101, 3056 Neyagawa Blvd, Oakville

Project Manager: Fahmida Anwar

Samplers: Fahmida Anwar

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

				Sample Number	9	10	11	12	13	14	15	16
				Sample Name	BH23-15 SS1	BH23-15 SS2	BH23-16 SS1	BH23-16 SS2	BH23-17 SS1	BH23-17 SS2	BH23-17 SS3	BH23-18 SS1
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
BTEX												
Benzene	µg/g	0.02	0.32	0.21	---	< 0.02	---	< 0.02	---	---	< 0.02	---
Ethylbenzene	µg/g	0.05	1.1	1.1	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Toluene	µg/g	0.05	6.4	2.3	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Xylene (total)	µg/g	0.05	26	3.1	---	< 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	---
Hydrides												
Antimony	µg/g	0.8	40	7.5	< 0.8	---	< 0.8	---	< 0.8	---	---	< 0.8
Arsenic	µg/g	0.5	18	18	5.9	---	7.0	---	4.4	---	---	5.8
Selenium	µg/g	0.1	5.5	2.4	0.2	---	0.3	---	0.4	---	---	0.2
Metals and Inorganics												
Moisture Content	%	no			13.2	15.4	16.9	12.5	15.3	10.0	10.1	10.9
Barium	µg/g	0.1	670	390	120	---	89	---	94	---	---	100
Beryllium	µg/g	0.02	8	4	0.95	---	0.77	---	0.76	---	---	0.89
Boron	µg/g	1	120	120	8	---	11	---	4	---	---	8
Cadmium	µg/g	0.05	1.9	1.2	0.19	---	0.24	---	0.17	---	---	0.13
Chromium	µg/g	0.5	160	160	23	---	19	---	21	---	---	23
Cobalt	µg/g	0.01	80	22	13	---	10	---	12	---	---	13
Copper	µg/g	0.1	230	140	27	---	96	---	19	---	---	29
Lead	µg/g	0.1	120	120	19	---	51	---	18	---	---	15
Molybdenum	µg/g	0.1	40	6.9	0.6	---	1.1	---	0.7	---	---	0.6

Client: DS Consultants
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Project Manager: Fahmida Anwar
Samplers: Fahmida Anwar

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

					Sample Number	9	10	11	12	13	14	15	16
					Sample Name	BH23-15 SS1	BH23-15 SS2	BH23-16 SS1	BH23-16 SS2	BH23-17 SS1	BH23-17 SS2	BH23-17 SS3	BH23-18 SS1
					Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
					Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics (continued)													
Nickel	µg/g	0.5	270	100	31	---	23	---	20	---	---	29
Silver	µg/g	0.05	40	20	< 0.05	---	0.07	---	< 0.05	---	---	< 0.05
Thallium	µg/g	0.02	3.3	1	0.18	---	0.13	---	0.16	---	---	0.19
Uranium	µg/g	0.002	33	23	0.56	---	0.77	---	0.59	---	---	0.58
Vanadium	µg/g	3	86	86	31	---	29	---	32	---	---	30
Zinc	µg/g	0.7	340	340	62	---	79	---	55	---	---	61
Water Soluble Boron	µg/g	0.5	2	1.5	< 0.5	---	< 0.5	---	< 0.5	---	---	< 0.5
Organochlorine Pests (OCs)													
Aldrin	µg/g	0.05	0.088	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	4.6	3.3	< 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	0.52	0.26	< 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	0.088	0.05	< 0.05	---	---	---	< 0.05	---	---	< 0.05

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

					Sample Number	9	10	11	12	13	14	15	16
					Sample Name	BH23-15 SS1	BH23-15 SS2	BH23-16 SS1	BH23-16 SS2	BH23-17 SS1	BH23-17 SS2	BH23-17 SS3	BH23-18 SS1
					Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
					Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)													
gamma-BHC	µg/g	0.01	0.056	0.056	< 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	0.3	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	0.19	0.15	< 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	0.66	0.52	< 0.01	---	---	---	< 0.01	---	---	< 0.01
Hexachlorobutadiene	µg/g	0.01	0.031	0.012	< 0.01	---	---	---	< 0.01	---	---	< 0.01
Hexachloroethane	µg/g	0.01	0.21	0.089	< 0.01	---	---	---	< 0.01	---	---	< 0.01
Methoxychlor	µg/g	0.05	1.6	0.13	< 0.05	---	---	---	< 0.05	---	---	< 0.05
Other (ORP)													
Mercury	ug/g	0.05	3.9	0.27	< 0.05	---	< 0.05	---	< 0.05	---	---	< 0.05
Sodium Adsorption Ratio	No unit	0.2	12	5	0.3	---	< 0.2	---	< 0.2	---	---	< 0.2
SAR Calcium	mg/L	0.2			15.4	---	37.4	---	30.2	---	---	35.9
SAR Magnesium	mg/L	0.3			1.7	---	3.6	---	3.1	---	---	3.0
SAR Sodium	mg/L	0.1			3.9	---	2.4	---	3.0	---	---	3.2
Conductivity	mS/cm	0.002	1.4	0.7	0.11	---	0.22	---	0.19	---	---	0.21
pH	pH Units	0.05			7.26	---	7.48	---	6.87	---	---	7.12
Chromium VI	µg/g	0.2	8	8	0.3	---	< 0.2	---	0.9	---	---	< 0.2
Free Cyanide	µg/g	0.05	0.051	0.051	< 0.05	---	< 0.05	---	< 0.05	---	---	< 0.05

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

				Sample Number	9	10	11	12	13	14	15	16
				Sample Name	BH23-15 SS1	BH23-15 SS2	BH23-16 SS1	BH23-16 SS2	BH23-17 SS1	BH23-17 SS2	BH23-17 SS3	BH23-18 SS1
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
PAHs												
Acenaphthene	µg/g	0.05	21	7.9	---	< 0.05	< 0.05	---	---	< 0.05	---	---
Acenaphthylene	µg/g	0.05	0.15	0.15	---	< 0.05	< 0.05	---	---	< 0.05	---	---
Anthracene	µg/g	0.05	0.67	0.67	---	< 0.05	< 0.05	---	---	< 0.05	---	---
Benzo(a)anthracene	µg/g	0.05	0.96	0.5	---	< 0.05	0.12	---	---	< 0.05	---	---
Benzo(a)pyrene	µg/g	0.05	0.3	0.3	---	< 0.05	0.14	---	---	< 0.05	---	---
Benzo(b+j)fluoranthene	µg/g	0.05	0.96	0.78	---	< 0.05	0.16	---	---	< 0.05	---	---
Benzo(ghi)perylene	µg/g	0.1	9.6	6.6	---	< 0.1	< 0.1	---	---	< 0.1	---	---
Benzo(k)fluoranthene	µg/g	0.05	0.96	0.78	---	< 0.05	0.06	---	---	< 0.05	---	---
Chrysene	µg/g	0.05	9.6	7	---	< 0.05	0.12	---	---	< 0.05	---	---
Dibenzo(a,h)anthracene	µg/g	0.06	0.1	0.1	---	< 0.06	< 0.06	---	---	< 0.06	---	---
Fluoranthene	µg/g	0.05	9.6	0.69	---	< 0.05	0.25	---	---	< 0.05	---	---
Fluorene	µg/g	0.05	62	62	---	< 0.05	< 0.05	---	---	< 0.05	---	---
Indeno(1,2,3-cd)pyrene	µg/g	0.1	0.76	0.38	---	< 0.1	< 0.1	---	---	< 0.1	---	---
1-Methylnaphthalene	µg/g	0.05			---	< 0.05	< 0.05	---	---	< 0.05	---	---
2-Methylnaphthalene	µg/g	0.05			---	< 0.05	< 0.05	---	---	< 0.05	---	---
Methylnaphthalene, 2-(1-)	µg/g	0.05	30	0.99	---	< 0.05	< 0.05	---	---	< 0.05	---	---
Naphthalene	µg/g	0.05	9.6	0.6	---	< 0.05	< 0.05	---	---	< 0.05	---	---
Phenanthrene	µg/g	0.05	12	6.2	---	< 0.05	0.12	---	---	< 0.05	---	---
Pyrene	µg/g	0.05	96	78	---	< 0.05	0.22	---	---	< 0.05	---	---

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

				Sample Number	9	10	11	12	13	14	15	16
				Sample Name	BH23-15 SS1	BH23-15 SS2	BH23-16 SS1	BH23-16 SS2	BH23-17 SS1	BH23-17 SS2	BH23-17 SS3	BH23-18 SS1
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate												
Surr Decachlorobiphenyl	Surr Rec %				96	---	---	---	73	---	---	100
PHCs												
F1 (C6-C10)	µg/g	10	55	55	---	< 10	---	< 10	---	---	< 10	---
F1-BTEX (C6-C10)	µg/g	10	55	55	---	< 10	---	< 10	---	---	< 10	---
F2 (C10-C16)	µg/g	10	230	98	---	< 10	---	< 10	---	---	< 10	---
F3 (C16-C34)	µg/g	50	1700	300	---	< 50	---	< 50	---	---	54	---
F4 (C34-C50)	µg/g	50	3300	2800	---	< 50	---	< 50	---	---	128	---
Chromatogram returned to baseline at nC50	Yes / No	no			---	YES	---	YES	---	---	YES	---
SVOC Surrogates												
Surr 2-Fluorobiphenyl	Surr Rec %	no			---	108	100	---	---	105	---	---
Surr 4-Terphenyl-d14	Surr Rec %	no			---	104	90	---	---	94	---	---
Surr 2-Methylnaphthalene-D10	Surr Rec %	no			---	104	93	---	---	97	---	---
Surr Fluoranthene-D10	Surr Rec %	no			---	98	86	---	---	90	---	---

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

				Sample Number	9	10	11	12	13	14	15	16
				Sample Name	BH23-15 SS1	BH23-15 SS2	BH23-16 SS1	BH23-16 SS2	BH23-17 SS1	BH23-17 SS2	BH23-17 SS3	BH23-18 SS1
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter		**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
THMs (VOC)												
Bromodichloromethane		µg/g	0.05	1.5	1.5	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Bromoform		µg/g	0.05	0.61	0.27	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Dibromochloromethane		µg/g	0.05	2.3	2.3	---	< 0.05	---	< 0.05	---	---	< 0.05	---
VOC Surrogates												
Surr 1,2-Dichloroethane-d4		Surr Rec %	no			---	100	---	102	---	---	102	---
Surr 4-Bromofluorobenzene		Surr Rec %	no			---	97	---	96	---	---	96	---
Surr 2-Bromo-1-Chloropropane		Surr Rec %	no			---	95	---	95	---	---	95	---
Surr TCMX		Surr Rec %	no			81	---	---	---	22	---	---	79
VOCs												
Acetone		µg/g	0.5	16	16	---	< 0.5	---	< 0.5	---	---	< 0.5	---
Bromomethane		µg/g	0.05	0.05	0.05	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Carbon tetrachloride		µg/g	0.05	0.21	0.05	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Chlorobenzene		µg/g	0.05	2.4	2.4	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Chloroform		µg/g	0.05	0.47	0.05	---	< 0.05	---	< 0.05	---	---	< 0.05	---
1,2-Dichlorobenzene		µg/g	0.05	1.2	1.2	---	< 0.05	---	< 0.05	---	---	< 0.05	---
1,3-Dichlorobenzene		µg/g	0.05	9.6	4.8	---	< 0.05	---	< 0.05	---	---	< 0.05	---
1,4-Dichlorobenzene		µg/g	0.05	0.2	0.083	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Dichlorodifluoromethane		µg/g	0.05	16	16	---	< 0.05	---	< 0.05	---	---	< 0.05	---
1,1-Dichloroethane		µg/g	0.05	0.47	0.47	---	< 0.05	---	< 0.05	---	---	< 0.05	---
1,2-Dichloroethane		µg/g	0.05	0.05	0.05	---	< 0.05	---	< 0.05	---	---	< 0.05	---
1,1-Dichloroethylene		µg/g	0.05	0.064	0.05	---	< 0.05	---	< 0.05	---	---	< 0.05	---

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

				Sample Number	9	10	11	12	13	14	15	16
				Sample Name	BH23-15 SS1	BH23-15 SS2	BH23-16 SS1	BH23-16 SS2	BH23-17 SS1	BH23-17 SS2	BH23-17 SS3	BH23-18 SS1
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOCs (continued)												
trans-1,2-Dichloroethylene	µg/g	0.05	1.3	0.084	---	< 0.05	---	< 0.05	---	---	< 0.05	---
cis-1,2-Dichloroethylene	µg/g	0.05	1.9	1.9	---	< 0.05	---	< 0.05	---	---	< 0.05	---
1,2-Dichloropropane	µg/g	0.05	0.16	0.05	---	< 0.05	---	< 0.05	---	---	< 0.05	---
cis-1,3-dichloropropene	µg/g	0.03			---	< 0.03	---	< 0.03	---	---	< 0.03	---
trans-1,3-dichloropropene	µg/g	0.03			---	< 0.03	---	< 0.03	---	---	< 0.03	---
1,3-dichloropropene (total)	µg/g	0.05	0.059	0.05	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Ethylenedibromide	µg/g	0.05	0.05	0.05	---	< 0.05	---	< 0.05	---	---	< 0.05	---
n-Hexane	µg/g	0.05	46	2.8	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Methyl ethyl ketone	µg/g	0.5	70	16	---	< 0.5	---	< 0.5	---	---	< 0.5	---
Methyl isobutyl ketone	µg/g	0.5	31	1.7	---	< 0.5	---	< 0.5	---	---	< 0.5	---
Methyl-t-butyl Ether	µg/g	0.05	1.6	0.75	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Methylene Chloride	µg/g	0.05	1.6	0.1	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Styrene	µg/g	0.05	34	0.7	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Tetrachloroethylene	µg/g	0.05	1.9	0.28	---	< 0.05	---	< 0.05	---	---	< 0.05	---
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.087	0.058	---	< 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	---
1,1,1-Trichloroethane	µg/g	0.05	6.1	0.38	---	< 0.05	---	< 0.05	---	---	< 0.05	---
1,1,2-Trichloroethane	µg/g	0.05	0.05	0.05	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Trichloroethylene	µg/g	0.05	0.55	0.061	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Trichlorofluoromethane	µg/g	0.05	4	4	---	< 0.05	---	< 0.05	---	---	< 0.05	---
Vinyl Chloride	µg/g	0.02	0.032	0.02	---	< 0.02	---	< 0.02	---	---	< 0.02	---

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

				Sample Number	17	18	19	20	21	22	23	24
				Sample Name	BH23-19 SS1	BH23-19 SS2	BH23-20 SS1	BH23-20 SS3	BH23-21 SS1	BH23-21 SS2	BH23-21 SS4	Dup-1
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
BTEX												
Benzene	µg/g	0.02	0.32	0.21	---	---	---	< 0.02	---	---	< 0.02	< 0.02
Ethylbenzene	µg/g	0.05	1.1	1.1	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Toluene	µg/g	0.05	6.4	2.3	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Xylene (total)	µg/g	0.05	26	3.1	---	---	---	< 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
Hydrides												
Antimony	µg/g	0.8	40	7.5	< 0.8	---	< 0.8	---	---	< 0.8	---	---
Arsenic	µg/g	0.5	18	18	7.4	---	3.5	---	---	5.2	---	---
Selenium	µg/g	0.1	5.5	2.4	0.2	---	0.2	---	---	< 0.1	---	---
Metals and Inorganics												
Moisture Content	%	no			8.7	15.1	16.0	9.9	14.3	14.7	7.5	8.2
Barium	µg/g	0.1	670	390	49	---	88	---	---	66	---	---
Beryllium	µg/g	0.02	8	4	0.39	---	0.58	---	---	0.63	---	---
Boron	µg/g	1	120	120	10	---	6	---	---	10	---	---
Cadmium	µg/g	0.05	1.9	1.2	0.33	---	0.14	---	---	0.10	---	---
Chromium	µg/g	0.5	160	160	14	---	18	---	---	19	---	---
Cobalt	µg/g	0.01	80	22	6.9	---	11	---	---	12	---	---
Copper	µg/g	0.1	230	140	38	---	18	---	---	25	---	---
Lead	µg/g	0.1	120	120	46	---	18	---	---	11	---	---
Molybdenum	µg/g	0.1	40	6.9	1.4	---	0.6	---	---	0.5	---	---

Client: DS Consultants
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Samplers: Fahmida Anwar

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

					Sample Number	17	18	19	20	21	22	23	24
					Sample Name	BH23-19 SS1	BH23-19 SS2	BH23-20 SS1	BH23-20 SS3	BH23-21 SS1	BH23-21 SS2	BH23-21 SS4	Dup-1
					Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
					Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics (continued)													
Nickel	µg/g	0.5	270	100	18	---	20	---	---	25	---	---
Silver	µg/g	0.05	40	20	0.07	---	< 0.05	---	---	< 0.05	---	---
Thallium	µg/g	0.02	3.3	1	0.13	---	0.13	---	---	0.14	---	---
Uranium	µg/g	0.002	33	23	0.48	---	0.46	---	---	0.55	---	---
Vanadium	µg/g	3	86	86	25	---	26	---	---	23	---	---
Zinc	µg/g	0.7	340	340	100	---	58	---	---	50	---	---
Water Soluble Boron	µg/g	0.5	2	1.5	< 0.5	---	< 0.5	---	---	< 0.5	---	---
Organochlorine Pests (OCs)													
Aldrin	µg/g	0.05	0.088	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	4.6	3.3	< 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	0.52	0.26	< 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	0.088	0.05	< 0.05	---	< 0.05	---	< 0.05	---	---	---

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

					Sample Number	17	18	19	20	21	22	23	24
					Sample Name	BH23-19 SS1	BH23-19 SS2	BH23-20 SS1	BH23-20 SS3	BH23-21 SS1	BH23-21 SS2	BH23-21 SS4	Dup-1
					Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
					Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)													
gamma-BHC	µg/g	0.01	0.056	0.056	< 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	0.3	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	0.19	0.15	< 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	0.66	0.52	< 0.01	---	< 0.01	---	< 0.01	---	---	---
Hexachlorobutadiene	µg/g	0.01	0.031	0.012	< 0.01	---	< 0.01	---	< 0.01	---	---	---
Hexachloroethane	µg/g	0.01	0.21	0.089	< 0.01	---	< 0.01	---	< 0.01	---	---	---
Methoxychlor	µg/g	0.05	1.6	0.13	< 0.05	---	< 0.05	---	< 0.05	---	---	---
Other (ORP)													
Mercury	ug/g	0.05	3.9	0.27	< 0.05	---	< 0.05	---	---	< 0.05	---	---
Sodium Adsorption Ratio	No unit	0.2	12	5	0.3	---	< 0.2	---	---	0.3	---	---
SAR Calcium	mg/L	0.2			38.3	---	47.0	---	---	25.2	---	---
SAR Magnesium	mg/L	0.3			4.6	---	3.8	---	---	2.7	---	---
SAR Sodium	mg/L	0.1			6.2	---	5.1	---	---	6.1	---	---
Conductivity	mS/cm	0.002	1.4	0.7	0.29	---	0.31	---	---	0.18	---	---
pH	pH Units	0.05			7.72	---	7.30	---	---	7.48	---	---
Chromium VI	µg/g	0.2	8	8	< 0.2	---	< 0.2	---	---	< 0.2	---	---
Free Cyanide	µg/g	0.05	0.051	0.051	< 0.05	---	< 0.05	---	---	< 0.05	---	---

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

				Sample Number	17	18	19	20	21	22	23	24
				Sample Name	BH23-19 SS1	BH23-19 SS2	BH23-20 SS1	BH23-20 SS3	BH23-21 SS1	BH23-21 SS2	BH23-21 SS4	Dup-1
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
PAHs												
Acenaphthene	µg/g	0.05	21	7.9	---	< 0.05	---	---	< 0.05	---	---	---
Acenaphthylene	µg/g	0.05	0.15	0.15	---	< 0.05	---	---	< 0.05	---	---	---
Anthracene	µg/g	0.05	0.67	0.67	---	< 0.05	---	---	< 0.05	---	---	---
Benzo(a)anthracene	µg/g	0.05	0.96	0.5	---	< 0.05	---	---	0.14	---	---	---
Benzo(a)pyrene	µg/g	0.05	0.3	0.3	---	< 0.05	---	---	0.15	---	---	---
Benzo(b+j)fluoranthene	µg/g	0.05	0.96	0.78	---	< 0.05	---	---	0.18	---	---	---
Benzo(ghi)perylene	µg/g	0.1	9.6	6.6	---	< 0.1	---	---	0.10	---	---	---
Benzo(k)fluoranthene	µg/g	0.05	0.96	0.78	---	< 0.05	---	---	0.08	---	---	---
Chrysene	µg/g	0.05	9.6	7	---	< 0.05	---	---	0.14	---	---	---
Dibenzo(a,h)anthracene	µg/g	0.06	0.1	0.1	---	< 0.06	---	---	< 0.06	---	---	---
Fluoranthene	µg/g	0.05	9.6	0.69	---	< 0.05	---	---	0.32	---	---	---
Fluorene	µg/g	0.05	62	62	---	< 0.05	---	---	< 0.05	---	---	---
Indeno(1,2,3-cd)pyrene	µg/g	0.1	0.76	0.38	---	< 0.1	---	---	< 0.1	---	---	---
1-Methylnaphthalene	µg/g	0.05			---	< 0.05	---	---	< 0.05	---	---	---
2-Methylnaphthalene	µg/g	0.05			---	< 0.05	---	---	< 0.05	---	---	---
Methylnaphthalene, 2-(1-)	µg/g	0.05	30	0.99	---	< 0.05	---	---	< 0.05	---	---	---
Naphthalene	µg/g	0.05	9.6	0.6	---	< 0.05	---	---	< 0.05	---	---	---
Phenanthrene	µg/g	0.05	12	6.2	---	< 0.05	---	---	0.19	---	---	---
Pyrene	µg/g	0.05	96	78	---	< 0.05	---	---	0.27	---	---	---

Client: DS Consultants

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

				Sample Number	17	18	19	20	21	22	23	24
				Sample Name	BH23-19 SS1	BH23-19 SS2	BH23-20 SS1	BH23-20 SS3	BH23-21 SS1	BH23-21 SS2	BH23-21 SS4	Dup-1
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate												
Surr Decachlorobiphenyl	Surr Rec %				112	---	96	---	106	---	---	---
PHCs												
F1 (C6-C10)	µg/g	10	55	55	---	---	---	< 10	---	---	< 10	< 10
F1-BTEX (C6-C10)	µg/g	10	55	55	---	---	---	< 10	---	---	< 10	< 10
F2 (C10-C16)	µg/g	10	230	98	---	---	---	< 10	---	---	< 10	< 10
F3 (C16-C34)	µg/g	50	1700	300	---	---	---	< 50	---	---	< 50	< 50
F4 (C34-C50)	µg/g	50	3300	2800	---	---	---	133	---	---	< 50	124
Chromatogram returned to baseline at nC50	Yes / No	no			---	---	---	YES	---	---	YES	YES
SVOC Surrogates												
Surr 2-Fluorobiphenyl	Surr Rec %	no			---	106	---	---	121	---	---	---
Surr 4-Terphenyl-d14	Surr Rec %	no			---	100	---	---	102	---	---	---
Surr 2-Methylnaphthalene-D10	Surr Rec %	no			---	95	---	---	100	---	---	---
Surr Fluoranthene-D10	Surr Rec %	no			---	93	---	---	97	---	---	---

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

				Sample Number	17	18	19	20	21	22	23	24
				Sample Name	BH23-19 SS1	BH23-19 SS2	BH23-20 SS1	BH23-20 SS3	BH23-21 SS1	BH23-21 SS2	BH23-21 SS4	Dup-1
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
THMs (VOC)												
Bromodichloromethane	µg/g	0.05	1.5	1.5	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Bromoform	µg/g	0.05	0.61	0.27	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Dibromochloromethane	µg/g	0.05	2.3	2.3	---	---	---	< 0.05	---	---	< 0.05	< 0.05
VOC Surrogates												
Surr 1,2-Dichloroethane-d4	Surr Rec %	no			---	---	---	102	---	---	101	102
Surr 4-Bromofluorobenzene	Surr Rec %	no			---	---	---	96	---	---	96	96
Surr 2-Bromo-1-Chloropropane	Surr Rec %	no			---	---	---	95	---	---	94	94
Surr TCMX	Surr Rec %	no			87	---	71	---	87	---	---	---
VOCs												
Acetone	µg/g	0.5	16	16	---	---	---	< 0.5	---	---	< 0.5	< 0.5
Bromomethane	µg/g	0.05	0.05	0.05	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Carbon tetrachloride	µg/g	0.05	0.21	0.05	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Chlorobenzene	µg/g	0.05	2.4	2.4	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Chloroform	µg/g	0.05	0.47	0.05	---	---	---	< 0.05	---	---	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/g	0.05	1.2	1.2	---	---	---	< 0.05	---	---	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/g	0.05	9.6	4.8	---	---	---	< 0.05	---	---	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/g	0.05	0.2	0.083	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Dichlorodifluoromethane	µg/g	0.05	16	16	---	---	---	< 0.05	---	---	< 0.05	< 0.05
1,1-Dichloroethane	µg/g	0.05	0.47	0.47	---	---	---	< 0.05	---	---	< 0.05	< 0.05
1,2-Dichloroethane	µg/g	0.05	0.05	0.05	---	---	---	< 0.05	---	---	< 0.05	< 0.05
1,1-Dichloroethylene	µg/g	0.05	0.064	0.05	---	---	---	< 0.05	---	---	< 0.05	< 0.05

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

				Sample Number	17	18	19	20	21	22	23	24
				Sample Name	BH23-19 SS1	BH23-19 SS2	BH23-20 SS1	BH23-20 SS3	BH23-21 SS1	BH23-21 SS2	BH23-21 SS4	Dup-1
				Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				Sample Date	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023	16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOCs (continued)												
trans-1,2-Dichloroethylene	µg/g	0.05	1.3	0.084	---	---	---	< 0.05	---	---	< 0.05	< 0.05
cis-1,2-Dichloroethylene	µg/g	0.05	1.9	1.9	---	---	---	< 0.05	---	---	< 0.05	< 0.05
1,2-Dichloropropane	µg/g	0.05	0.16	0.05	---	---	---	< 0.05	---	---	< 0.05	< 0.05
cis-1,3-dichloropropene	µg/g	0.03			---	---	---	< 0.03	---	---	< 0.03	< 0.03
trans-1,3-dichloropropene	µg/g	0.03			---	---	---	< 0.03	---	---	< 0.03	< 0.03
1,3-dichloropropene (total)	µg/g	0.05	0.059	0.05	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Ethylenedibromide	µg/g	0.05	0.05	0.05	---	---	---	< 0.05	---	---	< 0.05	< 0.05
n-Hexane	µg/g	0.05	46	2.8	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Methyl ethyl ketone	µg/g	0.5	70	16	---	---	---	< 0.5	---	---	< 0.5	< 0.5
Methyl isobutyl ketone	µg/g	0.5	31	1.7	---	---	---	< 0.5	---	---	< 0.5	< 0.5
Methyl-t-butyl Ether	µg/g	0.05	1.6	0.75	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Methylene Chloride	µg/g	0.05	1.6	0.1	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Styrene	µg/g	0.05	34	0.7	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Tetrachloroethylene	µg/g	0.05	1.9	0.28	---	---	---	< 0.05	---	---	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.087	0.058	---	---	---	< 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
1,1,1-Trichloroethane	µg/g	0.05	6.1	0.38	---	---	---	< 0.05	---	---	< 0.05	< 0.05
1,1,2-Trichloroethane	µg/g	0.05	0.05	0.05	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Trichloroethylene	µg/g	0.05	0.55	0.061	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Trichlorofluoromethane	µg/g	0.05	4	4	---	---	---	< 0.05	---	---	< 0.05	< 0.05
Vinyl Chloride	µg/g	0.02	0.032	0.02	---	---	---	< 0.02	---	---	< 0.02	< 0.02

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

Sample Number	25
Sample Name	Dup-2
Sample Matrix	Soil
Sample Date	16/06/2023

Parameter	Units	RL	L1	L2	Result
Hydrides					
Antimony	µg/g	0.8	40	7.5	< 0.8
Arsenic	µg/g	0.5	18	18	8.7
Selenium	µg/g	0.1	5.5	2.4	0.2
Metals and Inorganics					
Moisture Content	%	no			7.6
Barium	µg/g	0.1	670	390	80
Beryllium	µg/g	0.02	8	4	0.68
Boron	µg/g	1	120	120	9
Cadmium	µg/g	0.05	1.9	1.2	0.23
Chromium	µg/g	0.5	160	160	19
Cobalt	µg/g	0.01	80	22	10
Copper	µg/g	0.1	230	140	39
Lead	µg/g	0.1	120	120	43
Molybdenum	µg/g	0.1	40	6.9	1.1
Nickel	µg/g	0.5	270	100	22
Silver	µg/g	0.05	40	20	0.07
Thallium	µg/g	0.02	3.3	1	0.17
Uranium	µg/g	0.002	33	23	0.53
Vanadium	µg/g	3	86	86	27
Zinc	µg/g	0.7	340	340	86
Water Soluble Boron	µg/g	0.5	2	1.5	< 0.5

Client: DS Consultants
Project: 22-012-101, 3056 Neyagawa Blvd, Oakville
Project Manager: Fahmida Anwar
Samplers: Fahmida Anwar

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

Sample Number	25
Sample Name	Dup-2
Sample Matrix	Soil
Sample Date	16/06/2023

Parameter	Units	RL	L1	L2	Result
Other (ORP)					
Mercury	ug/g	0.05	3.9	0.27	< 0.05
Sodium Adsorption Ratio	No unit	0.2	12	5	< 0.2
SAR Calcium	mg/L	0.2			41.2
SAR Magnesium	mg/L	0.3			4.0
SAR Sodium	mg/L	0.1			3.0
Conductivity	mS/cm	0.002	1.4	0.7	0.24
pH	pH Units	0.05			7.31
Chromium VI	µg/g	0.2	8	8	0.3
Free Cyanide	µg/g	0.05	0.051	0.051	< 0.05

Client: DS Consultants
Project: 22-012-101, 3056 Neyagawa Blvd, Oakville
Project Manager: Fahmida Anwar
Samplers: Fahmida Anwar

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

Sample Number					25
Sample Name					Dup-2
Sample Matrix					Soil
Sample Date					16/06/2023
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**

EXCEEDANCE SUMMARY

No exceedances are present above the regulatory limit(s) indicated

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	EWL0601-JUN23	mS/cm	0.002	<0.002	4	10	99	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	SKA5085-JUN23	µg/g	0.05	<0.05	ND	20	99	80	120	96	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	SKA5088-JUN23	ug/g	0.2	<0.2	ND	20	94	80	120	97	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	EMS0197-JUN23	ug/g	0.05	<0.05	ND	20	107	80	120	82	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	ESG0051-JUN23	mg/L	0.2	<0.2	1	20	101	80	120	NV	70	130
SAR Magnesium	ESG0051-JUN23	mg/L	0.3	<0.3	1	20	103	80	120	NV	70	130
SAR Sodium	ESG0051-JUN23	mg/L	0.1	<0.1	1	20	100	80	120	NV	70	130
SAR Calcium	ESG0055-JUN23	mg/L	0.2	<0.2	1	20	99	80	120	99	70	130
SAR Magnesium	ESG0055-JUN23	mg/L	0.3	<0.3	ND	20	103	80	120	101	70	130
SAR Sodium	ESG0055-JUN23	mg/L	0.1	<0.1	3	20	108	80	120	96	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	EMS0197-JUN23	ug/g	0.05	<0.05	ND	20	104	70	130	102	70	130
Arsenic	EMS0197-JUN23	µg/g	0.5	<0.5	1	20	92	70	130	92	70	130
Barium	EMS0197-JUN23	ug/g	0.1	<0.1	0	20	98	70	130	103	70	130
Beryllium	EMS0197-JUN23	µg/g	0.02	<0.02	1	20	100	70	130	97	70	130
Boron	EMS0197-JUN23	µg/g	1	<1	3	20	98	70	130	90	70	130
Cadmium	EMS0197-JUN23	ug/g	0.05	<0.05	6	20	98	70	130	93	70	130
Cobalt	EMS0197-JUN23	µg/g	0.01	<0.01	1	20	98	70	130	96	70	130
Chromium	EMS0197-JUN23	µg/g	0.5	<0.5	2	20	97	70	130	95	70	130
Copper	EMS0197-JUN23	µg/g	0.1	<0.1	2	20	100	70	130	93	70	130
Molybdenum	EMS0197-JUN23	µg/g	0.1	<0.1	15	20	106	70	130	101	70	130
Nickel	EMS0197-JUN23	ug/g	0.5	<0.5	2	20	99	70	130	95	70	130
Lead	EMS0197-JUN23	ug/g	0.1	<0.1	1	20	104	70	130	98	70	130
Antimony	EMS0197-JUN23	µg/g	0.8	<0.8	ND	20	109	70	130	113	70	130
Selenium	EMS0197-JUN23	ug/g	0.1	<0.1	3	20	104	70	130	93	70	130
Thallium	EMS0197-JUN23	µg/g	0.02	<0.02	2	20	99	70	130	102	70	130
Uranium	EMS0197-JUN23	µg/g	0.002	<0.002	4	20	103	70	130	NV	70	130
Vanadium	EMS0197-JUN23	µg/g	3	<3	1	20	99	70	130	94	70	130
Zinc	EMS0197-JUN23	µg/g	0.7	<0.7	2	20	98	70	130	88	70	130

QC SUMMARY

Pesticides

Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENVIGC-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	GCM0381-JUN23	µg/g	0.05	< 0.05	ND	40	83	50	140	81	50	140
alpha-Chlordane	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	81	50	140	90	50	140
Dieldrin	GCM0381-JUN23	µg/g	0.05	< 0.05	ND	40	87	50	140	85	50	140
Endosulfan I	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	82	50	140	86	50	140
Endosulfan II	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	88	50	140	92	50	140
Endrin	GCM0381-JUN23	µg/g	0.04	< 0.04	ND	40	91	50	140	92	50	140
gamma-BHC	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	83	50	140	81	50	140
gamma-Chlordane	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	81	50	140	90	50	140
Heptachlor epoxide	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	81	50	140	86	50	140
Heptachlor	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	83	50	140	83	50	140
Hexachlorobenzene	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	82	50	140	84	50	140
Hexachlorobutadiene	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	82	50	140	85	50	140
Hexachloroethane	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	81	50	140	83	50	140
Methoxychlor	GCM0381-JUN23	µg/g	0.05	< 0.05	ND	40	88	50	140	131	50	140
o,p-DDD	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	93	50	140	108	50	140
o,p-DDE	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	82	50	140	91	50	140
op-DDT	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	89	50	140	73	50	140
pp-DDD	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	90	50	140	122	50	140
pp-DDE	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	83	50	140	94	50	140
pp-DDT	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	89	50	140	123	50	140

QC SUMMARY

Petroleum Hydrocarbons (F1)

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
F1 (C6-C10)	GCM0370-JUN23	µg/g	10	<10	ND	30	105	80	120	93	60	140

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)	GCM0364-JUN23	µg/g	10	<10	ND	30	114	80	120	113	60	140
F3 (C16-C34)	GCM0364-JUN23	µg/g	50	<50	ND	30	114	80	120	113	60	140
F4 (C34-C50)	GCM0364-JUN23	µg/g	50	<50	ND	30	114	80	120	113	60	140

QC SUMMARY

pH

Method: SM 4500 I 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	ARD0092-JUN23	pH Units	0.05		0	20	100	80	120			

QC SUMMARY

Semi-Volatile Organics

Method: EPA 3541/8270D | 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
1-Methylnaphthalene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	90	50	140	80	50	140
2-Methylnaphthalene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	89	50	140	83	50	140
Acenaphthene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	93	50	140	78	50	140
Acenaphthylene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	90	50	140	80	50	140
Anthracene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	86	50	140	75	50	140
Benzo(a)anthracene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	85	50	140	77	50	140
Benzo(a)pyrene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	86	50	140	77	50	140
Benzo(b+j)fluoranthene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	87	50	140	79	50	140
Benzo(ghi)perylene	GCM0351-JUN23	µg/g	0.1	< 0.1	ND	40	89	50	140	77	50	140
Benzo(k)fluoranthene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	87	50	140	77	50	140
Chrysene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	89	50	140	79	50	140
Dibenzo(a,h)anthracene	GCM0351-JUN23	µg/g	0.06	< 0.06	ND	40	81	50	140	73	50	140
Fluoranthene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	81	50	140	74	50	140
Fluorene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	97	50	140	81	50	140
Indeno(1,2,3-cd)pyrene	GCM0351-JUN23	µg/g	0.1	< 0.1	ND	40	83	50	140	74	50	140
Naphthalene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	95	50	140	82	50	140
Phenanthrene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	86	50	140	76	50	140
Pyrene	GCM0351-JUN23	µg/g	0.05	< 0.05	ND	40	87	50	140	75	50	140
1-Methylnaphthalene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	97	50	140	93	50	140
2-Methylnaphthalene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	96	50	140	91	50	140

QC SUMMARY

Semi-Volatile Organics (continued)

Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENVIGC-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
Acenaphthene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	96	50	140	93	50	140
Acenaphthylene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	93	50	140	82	50	140
Anthracene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	92	50	140	88	50	140
Benzo(a)anthracene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	96	50	140	92	50	140
Benzo(a)pyrene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	93	50	140	90	50	140
Benzo(b+j)fluoranthene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	100	50	140	92	50	140
Benzo(ghi)perylene	GCM0357-JUN23	µg/g	0.1	< 0.1	ND	40	94	50	140	90	50	140
Benzo(k)fluoranthene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	96	50	140	92	50	140
Chrysene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	96	50	140	93	50	140
Dibenzo(a,h)anthracene	GCM0357-JUN23	µg/g	0.06	< 0.06	ND	40	92	50	140	85	50	140
Fluoranthene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	88	50	140	84	50	140
Fluorene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	105	50	140	90	50	140
Indeno(1,2,3-cd)pyrene	GCM0357-JUN23	µg/g	0.1	< 0.1	ND	40	89	50	140	84	50	140
Naphthalene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	96	50	140	92	50	140
Phenanthrene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	93	50	140	89	50	140
Pyrene	GCM0357-JUN23	µg/g	0.05	< 0.05	ND	40	94	50	140	90	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	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	99	60	130	99	50	140
1,1,1-Trichloroethane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	102	60	130	100	50	140
1,1,2,2-Tetrachloroethane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	97	60	130	NV	50	140
1,1,2-Trichloroethane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	94	60	130	91	50	140
1,1-Dichloroethane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	101	60	130	101	50	140
1,1-Dichloroethylene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	115	60	130	112	50	140
1,2-Dichlorobenzene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	102	60	130	NV	50	140
1,2-Dichloroethane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	98	60	130	98	50	140
1,2-Dichloropropane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	100	50	140
1,3-Dichlorobenzene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	104	60	130	NV	50	140
1,4-Dichlorobenzene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	102	60	130	NV	50	140
Acetone	GCM0369-JUN23	µg/g	0.5	< 0.5	ND	50	99	50	140	100	50	140
Benzene	GCM0369-JUN23	µg/g	0.02	< 0.02	ND	50	102	60	130	99	50	140
Bromodichloromethane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	99	60	130	98	50	140
Bromoform	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	98	60	130	98	50	140
Bromomethane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	101	50	140	93	50	140
Carbon tetrachloride	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	104	60	130	100	50	140
Chlorobenzene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	99	50	140
Chloroform	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	100	50	140
cis-1,2-Dichloroethylene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	101	60	130	101	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	GCM0369-JUN23	µg/g	0.03	< 0.03	ND	50	102	60	130	96	50	140
Dibromochloromethane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	99	50	140
Dichlorodifluoromethane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	87	50	140	69	50	140
Ethylbenzene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	98	50	140
Ethylenedibromide	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	98	60	130	98	50	140
n-Hexane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	96	60	130	82	50	140
m/p-xylene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	101	60	130	99	50	140
Methyl ethyl ketone	GCM0369-JUN23	µg/g	0.5	< 0.5	ND	50	98	50	140	89	50	140
Methyl isobutyl ketone	GCM0369-JUN23	µg/g	0.5	< 0.5	ND	50	103	50	140	97	50	140
Methyl-t-butyl Ether	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	102	60	130	95	50	140
Methylene Chloride	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	100	50	140
o-xylene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	102	60	130	101	50	140
Styrene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	98	50	140
Tetrachloroethylene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	103	60	130	99	50	140
Toluene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	101	60	130	101	50	140
trans-1,2-Dichloroethylene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	102	60	130	99	50	140
trans-1,3-dichloropropene	GCM0369-JUN23	µg/g	0.03	< 0.03	ND	50	101	60	130	95	50	140
Trichloroethylene	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	102	60	130	100	50	140
Trichlorofluoromethane	GCM0369-JUN23	µg/g	0.05	< 0.05	ND	50	97	50	140	91	50	140
Vinyl Chloride	GCM0369-JUN23	µg/g	0.02	< 0.02	ND	50	97	50	140	90	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	ESG0038-JUN23	µg/g	0.5	<0.5	ND	20	100	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

Results relate only to the sample tested.
Data reported represent the sample as submitted to SGS. 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 and Excess Soil Quality" 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.

SGS Canada Inc. statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.
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. Reproduction of this analytical report in full or in part is prohibited.

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:

Page 1 of 2

Laboratory Information Section - Lab use only

Received By: Ahneev
Received Date: 06 / 20 / 2023 (mm/dd/yy)
Received Time: 09:30 (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) 4.5
LAB LIMS #: CA40197-Jun23

REPORT INFORMATION	INVOICE INFORMATION
Company: DS	☐ (same as Report Information)
Contact: Fahmida Anwar	Company: DS
Address: 6221, Hwy 7, Unit 16 Vaughan, ON	Contact: Bindu Goel
Phone: 647-879-3866	Address:
Fax:	Phone:
Email: fanwar@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #:
Project #: 22-012-101
P.O. #:
Site Location/ID: 3056 Neyagawa Blvd., Oakville, ON

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:
☑ Table 2 ☑ Ind/Com ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ Medium/Fine
☐ 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 (OCPs)	Other (please specify)	Other	Other	Other	Other: Appendix 2: 406/19 Leachate Screening Levels Table :	Other: 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	BH23-15 SS1	16/06/23	PM	2	Soil		✓										✓								
2	BH23-15 SS2			4						✓				✓	✓										
3	BH23-16 SS1			2			✓			✓															
4	BH23-16 SS2			3										✓	✓										
5	BH23-17 SS1			2			✓										✓								
6	BH23-17 SS2			1						✓															
7	BH23-17 SS3			3										✓	✓										
8	BH23-18 SS1			2			✓										✓								
9	BH23-19 SS1			2			✓										✓								
10	BH23-19 SS2			1						✓															
11	BH23-20 SS1			2			✓										✓								
12	BH23-20 SS3	↓	↓	3	↓								✓	✓	✓										

Observations/Comments/Special Instructions

Sampled By (NAME): FAHMIDA ANWAR Signature: Date: 06 / 19 / 23 (mm/dd/yy) Pink Copy - Client

Relinquished by (NAME): FAHMIDA ANWAR Signature: Date: 06 / 19 / 23 (mm/dd/yy) 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: Abneet
Received Date: 06/20/2023 (mm/dd/yy)
Received Time: 09:30 (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) 4.4.5
LAB LIMS #:

REPORT INFORMATION	INVOICE INFORMATION
Company: DS	☐ (same as Report Information)
Contact: Fahmida Anwar	Company: DS
Address: 6221, Hwy 27, Unit 16, Vaughan, ON	Contact: Accounting - Bindu Goel
Phone: 647-879-3866	Address:
Fax:	Phone:
Email: fanwar@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #:
Project #: 22-012-101
P.O. #:
Site Location/ID: 3056 Neyagawa Blvd.

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:
☑ Table 2 ☑ Ind/Com ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ Medium/Fine
☐ 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	M&I: 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 (ALPs))	Other (please specify)	TCLP: Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	BH23-21 SS1	16/06/23	PM	2	Soil					✓							✓			
2	BH23-21 SS2	↓	↓	1	↓		✓													
3	BH23-21 SS4			3										✓	✓					
4	DUP-1			3										✓	✓					
5	DUP2	↓	↓	1	↓		✓													
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Observations/Comments/Special Instructions

Sampled By (NAME): FAHMIDA ANWAR Signature: Date: 06/19/23 (mm/dd/yy)
Relinquished by (NAME): FAHMIDA ANWAR Signature: Date: 06/19/23 (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.

Your Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Your C.O.C. #: 862749-01-01

Attention: Kirstin Olsen

DS Consultants Limited
6221 Highway 7, Unit 16
Vaughan, ON
CANADA L4H 0K8

Report Date: 2022/01/28
Report #: R6980732
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C217346
Received: 2022/01/21, 15:16

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	5	N/A	2022/01/27	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	5	N/A	2022/01/27		EPA 8260C m
Chloride by Automated Colourimetry	5	N/A	2022/01/25	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water	5	N/A	2022/01/25	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	5	N/A	2022/01/24	CAM SOP-00457	OMOE E3015 m
Petroleum Hydrocarbons F2-F4 in Water (1)	5	2022/01/26	2022/01/26	CAM SOP-00316	CCME PHC-CWS m
Mercury	5	2022/01/25	2022/01/25	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	5	N/A	2022/01/25	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	1	2022/01/26	2022/01/26	CAM SOP-00318	EPA 8270D m
PAH Compounds in Water by GC/MS (SIM)	4	2022/01/26	2022/01/27	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	5	N/A	2022/01/26	CAM SOP-00230	EPA 8260C m

Remarks:

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

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Your Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Your C.O.C. #: 862749-01-01

Attention: Kirstin Olsen

DS Consultants Limited
6221 Highway 7, Unit 16
Vaughan, ON
CANADA L4H 0K8

Report Date: 2022/01/28
Report #: R6980732
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C217346
Received: 2022/01/21, 15:16

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

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
28 Jan 2022 11:59:53

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ashton Gibson, Project Manager
Email: Ashton.Gibson@bureauveritas.com
Phone# (905)817-5765

==========

This report has been generated and distributed using a secure automated process.
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Job #: C217346
Report Date: 2022/01/28

DS Consultants Limited
Client Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Sampler Initials: RZ

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID			RRD592			RRD592			RRD593		
Sampling Date			2022/01/20			2022/01/20			2022/01/20		
COC Number			862749-01-01			862749-01-01			862749-01-01		
	UNITS	Criteria	BH1	RDL	QC Batch	BH1 Lab-Dup	RDL	QC Batch	BH2	RDL	QC Batch
Inorganics											
WAD Cyanide (Free)	ug/L	66	<1	1	7796846				<1	1	7796846
Dissolved Chloride (Cl-)	mg/L	790	**900**	10	7796788				520	6.0	7796788
Metals											
Chromium (VI)	ug/L	25	<0.50	0.50	7796180	<0.50	0.50	7796180	<0.50	0.50	7796180
Mercury (Hg)	ug/L	0.29	<0.10	0.10	7798095				<0.10	0.10	7798095
Dissolved Antimony (Sb)	ug/L	6.0	0.57	0.50	7797531	<0.50	0.50	7797531	0.55	0.50	7797531
Dissolved Arsenic (As)	ug/L	25	<1.0	1.0	7797531	<1.0	1.0	7797531	1.3	1.0	7797531
Dissolved Barium (Ba)	ug/L	1000	180	2.0	7797531	180	2.0	7797531	230	2.0	7797531
Dissolved Beryllium (Be)	ug/L	4.0	<0.40	0.40	7797531	<0.40	0.40	7797531	<0.40	0.40	7797531
Dissolved Boron (B)	ug/L	5000	150	10	7797531	150	10	7797531	150	10	7797531
Dissolved Cadmium (Cd)	ug/L	2.7	<0.090	0.090	7797531	<0.090	0.090	7797531	<0.090	0.090	7797531
Dissolved Chromium (Cr)	ug/L	50	<5.0	5.0	7797531	<5.0	5.0	7797531	<5.0	5.0	7797531
Dissolved Cobalt (Co)	ug/L	3.8	<0.50	0.50	7797531	<0.50	0.50	7797531	<0.50	0.50	7797531
Dissolved Copper (Cu)	ug/L	87	0.92	0.90	7797531	0.96	0.90	7797531	<0.90	0.90	7797531
Dissolved Lead (Pb)	ug/L	10	<0.50	0.50	7797531	<0.50	0.50	7797531	<0.50	0.50	7797531
Dissolved Molybdenum (Mo)	ug/L	70	6.9	0.50	7797531	6.8	0.50	7797531	5.0	0.50	7797531
Dissolved Nickel (Ni)	ug/L	100	<1.0	1.0	7797531	<1.0	1.0	7797531	1.1	1.0	7797531
Dissolved Selenium (Se)	ug/L	10	<2.0	2.0	7797531	<2.0	2.0	7797531	<2.0	2.0	7797531
Dissolved Silver (Ag)	ug/L	1.5	<0.090	0.090	7797531	<0.090	0.090	7797531	<0.090	0.090	7797531
Dissolved Sodium (Na)	ug/L	490000	420000	100	7797531	430000	100	7797531	190000	100	7797531
Dissolved Thallium (Tl)	ug/L	2.0	<0.050	0.050	7797531	<0.050	0.050	7797531	<0.050	0.050	7797531
Dissolved Uranium (U)	ug/L	20	4.7	0.10	7797531	4.6	0.10	7797531	5.6	0.10	7797531
Dissolved Vanadium (V)	ug/L	6.2	0.57	0.50	7797531	0.50	0.50	7797531	0.71	0.50	7797531
Dissolved Zinc (Zn)	ug/L	1100	<5.0	5.0	7797531	<5.0	5.0	7797531	<5.0	5.0	7797531

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil

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

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C217346
Report Date: 2022/01/28

DS Consultants Limited
Client Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Sampler Initials: RZ

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID			RRD594	RRD595		RRD596			RRD596		
Sampling Date			2022/01/20	2022/01/20		2022/01/20			2022/01/20		
COC Number			862749-01-01	862749-01-01		862749-01-01			862749-01-01		
	UNITS	Criteria	BH4	DUP1	RDL	DUP2	RDL	QC Batch	DUP2 Lab-Dup	RDL	QC Batch
Inorganics											
WAD Cyanide (Free)	ug/L	66	<1	<1	1	<1	1	7796846			
Dissolved Chloride (Cl-)	mg/L	790	30	29	1.0	**900**	10	7796788			
Metals											
Chromium (VI)	ug/L	25	<0.50	<0.50	0.50	<0.50	0.50	7796180			
Mercury (Hg)	ug/L	0.29	<0.10	<0.10	0.10	<0.10	0.10	7798095	<0.10	0.10	7798095
Dissolved Antimony (Sb)	ug/L	6.0	<0.50	<0.50	0.50	<0.50	0.50	7797531			
Dissolved Arsenic (As)	ug/L	25	1.1	1.1	1.0	<1.0	1.0	7797531			
Dissolved Barium (Ba)	ug/L	1000	140	140	2.0	190	2.0	7797531			
Dissolved Beryllium (Be)	ug/L	4.0	<0.40	<0.40	0.40	<0.40	0.40	7797531			
Dissolved Boron (B)	ug/L	5000	120	120	10	140	10	7797531			
Dissolved Cadmium (Cd)	ug/L	2.7	<0.090	<0.090	0.090	<0.090	0.090	7797531			
Dissolved Chromium (Cr)	ug/L	50	<5.0	<5.0	5.0	<5.0	5.0	7797531			
Dissolved Cobalt (Co)	ug/L	3.8	<0.50	<0.50	0.50	<0.50	0.50	7797531			
Dissolved Copper (Cu)	ug/L	87	<0.90	<0.90	0.90	<0.90	0.90	7797531			
Dissolved Lead (Pb)	ug/L	10	<0.50	<0.50	0.50	<0.50	0.50	7797531			
Dissolved Molybdenum (Mo)	ug/L	70	3.0	3.0	0.50	6.4	0.50	7797531			
Dissolved Nickel (Ni)	ug/L	100	<1.0	<1.0	1.0	<1.0	1.0	7797531			
Dissolved Selenium (Se)	ug/L	10	<2.0	<2.0	2.0	<2.0	2.0	7797531			
Dissolved Silver (Ag)	ug/L	1.5	<0.090	<0.090	0.090	<0.090	0.090	7797531			
Dissolved Sodium (Na)	ug/L	490000	23000	23000	100	430000	100	7797531			
Dissolved Thallium (Tl)	ug/L	2.0	<0.050	<0.050	0.050	<0.050	0.050	7797531			
Dissolved Uranium (U)	ug/L	20	3.7	3.7	0.10	4.7	0.10	7797531			
Dissolved Vanadium (V)	ug/L	6.2	0.60	0.51	0.50	0.57	0.50	7797531			
Dissolved Zinc (Zn)	ug/L	1100	<5.0	<5.0	5.0	<5.0	5.0	7797531			

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil

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

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C217346
Report Date: 2022/01/28

DS Consultants Limited
Client Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Sampler Initials: RZ

O.REG 153 PAHS (WATER)

Bureau Veritas ID			RRD592	RRD593	RRD594	RRD595	RRD596		
Sampling Date			2022/01/20	2022/01/20	2022/01/20	2022/01/20	2022/01/20		
COC Number			862749-01-01	862749-01-01	862749-01-01	862749-01-01	862749-01-01		
	UNITS	Criteria	BH1	BH2	BH4	DUP1	DUP2	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	3.2	<0.071	<0.071	<0.071	<0.071	<0.071	0.071	7796615
Polyaromatic Hydrocarbons									
Acenaphthene	ug/L	4.1	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Acenaphthylene	ug/L	1	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Anthracene	ug/L	2.4	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Benzo(a)anthracene	ug/L	1.0	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Benzo(a)pyrene	ug/L	0.01	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	7801529
Benzo(b/j)fluoranthene	ug/L	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Benzo(g,h,i)perylene	ug/L	0.2	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Benzo(k)fluoranthene	ug/L	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Chrysene	ug/L	0.1	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Dibenzo(a,h)anthracene	ug/L	0.2	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Fluoranthene	ug/L	0.41	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Fluorene	ug/L	120	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Indeno(1,2,3-cd)pyrene	ug/L	0.2	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
1-Methylnaphthalene	ug/L	3.2	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
2-Methylnaphthalene	ug/L	3.2	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Naphthalene	ug/L	11	<0.050	<0.050	0.070	0.069	<0.050	0.050	7801529
Phenanthrene	ug/L	1	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	7801529
Pyrene	ug/L	4.1	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7801529
Surrogate Recovery (%)									
D10-Anthracene	%	-	84	100	100	88	100		7801529
D14-Terphenyl (FS)	%	-	88	92	95	83	104		7801529
D8-Acenaphthylene	%	-	77	94	91	80	94		7801529

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil

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Bureau Veritas Job #: C217346
Report Date: 2022/01/28

DS Consultants Limited
Client Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Sampler Initials: RZ

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

Bureau Veritas ID			RRD592	RRD593	RRD594	RRD595	RRD596		
Sampling Date			2022/01/20	2022/01/20	2022/01/20	2022/01/20	2022/01/20		
COC Number			862749-01-01	862749-01-01	862749-01-01	862749-01-01	862749-01-01		
	UNITS	Criteria	BH1	BH2	BH4	DUP1	DUP2	RDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796324
Volatile Organics									
Acetone (2-Propanone)	ug/L	2700	<10	<10	<10	<10	<10	10	7796661
Benzene	ug/L	5.0	<0.17	<0.17	<0.17	<0.17	<0.17	0.17	7796661
Bromodichloromethane	ug/L	16.0	<0.50	0.56	<0.50	<0.50	<0.50	0.50	7796661
Bromoform	ug/L	25.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7796661
Bromomethane	ug/L	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
Carbon Tetrachloride	ug/L	0.79	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
Chlorobenzene	ug/L	30	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
Chloroform	ug/L	2.4	0.42	0.52	0.34	0.30	0.45	0.20	7796661
Dibromochloromethane	ug/L	25.0	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
1,2-Dichlorobenzene	ug/L	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
1,3-Dichlorobenzene	ug/L	59	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
1,4-Dichlorobenzene	ug/L	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7796661
1,1-Dichloroethane	ug/L	5	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
1,2-Dichloroethane	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
1,1-Dichloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
1,2-Dichloropropane	ug/L	5.0	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7796661
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7796661
Ethylbenzene	ug/L	2.4	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
Ethylene Dibromide	ug/L	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
Hexane	ug/L	51	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7796661
Methylene Chloride(Dichloromethane)	ug/L	50	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7796661
Methyl Ethyl Ketone (2-Butanone)	ug/L	1800	<10	<10	<10	<10	<10	10	7796661
Methyl Isobutyl Ketone	ug/L	640	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7796661

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C217346
Report Date: 2022/01/28

DS Consultants Limited
Client Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Sampler Initials: RZ

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

Bureau Veritas ID			RRD592	RRD593	RRD594	RRD595	RRD596		
Sampling Date			2022/01/20	2022/01/20	2022/01/20	2022/01/20	2022/01/20		
COC Number			862749-01-01	862749-01-01	862749-01-01	862749-01-01	862749-01-01		
	UNITS	Criteria	BH1	BH2	BH4	DUP1	DUP2	RDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
Styrene	ug/L	5.4	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
1,1,2,2-Tetrachloroethane	ug/L	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
Tetrachloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
Toluene	ug/L	24	<0.20	0.22	0.21	<0.20	<0.20	0.20	7796661
1,1,1-Trichloroethane	ug/L	200	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
1,1,2-Trichloroethane	ug/L	4.7	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
Trichloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7796661
Vinyl Chloride	ug/L	0.5	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
p+m-Xylene	ug/L	-	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
o-Xylene	ug/L	-	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
Total Xylenes	ug/L	300	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	7796661
F1 (C6-C10)	ug/L	750	<25	<25	<25	<25	<25	25	7796661
F1 (C6-C10) - BTEX	ug/L	750	<25	<25	<25	<25	<25	25	7796661
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	<100	<100	<100	<100	100	7801542
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	<200	<200	<200	<200	200	7801542
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	<200	<200	<200	<200	200	7801542
Reached Baseline at C50	ug/L	-	Yes	Yes	Yes	Yes	Yes		7801542
Surrogate Recovery (%)									
o-Terphenyl	%	-	97	91	91	88	87		7801542
4-Bromofluorobenzene	%	-	101	100	98	100	100		7796661
D4-1,2-Dichloroethane	%	-	99	101	102	106	109		7796661
D8-Toluene	%	-	92	91	91	90	89		7796661

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil

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Bureau Veritas Job #: C217346
Report Date: 2022/01/28

DS Consultants Limited
Client Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Sampler Initials: RZ

TEST SUMMARY

Bureau Veritas ID: RRD592
Sample ID: BH1
Matrix: Water

Collected: 2022/01/20
Shipped:
Received: 2022/01/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7796615	N/A	2022/01/27	Automated Statchk
1,3-Dichloropropene Sum	CALC	7796324	N/A	2022/01/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	7796788	N/A	2022/01/25	Alina Dobreanu
Chromium (VI) in Water	IC	7796180	N/A	2022/01/25	Theodora LI
Free (WAD) Cyanide	SKAL/CN	7796846	N/A	2022/01/24	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7801542	2022/01/26	2022/01/26	(Kent) Maolin Li
Mercury	CV/AA	7798095	2022/01/25	2022/01/25	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7797531	N/A	2022/01/25	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7801529	2022/01/26	2022/01/26	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7796661	N/A	2022/01/26	Juan Pangilinan

Bureau Veritas ID: RRD592 Dup
Sample ID: BH1
Matrix: Water

Collected: 2022/01/20
Shipped:
Received: 2022/01/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	7796180	N/A	2022/01/25	Theodora LI
Dissolved Metals by ICPMS	ICP/MS	7797531	N/A	2022/01/25	Nan Raykha

Bureau Veritas ID: RRD593
Sample ID: BH2
Matrix: Water

Collected: 2022/01/20
Shipped:
Received: 2022/01/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7796615	N/A	2022/01/27	Automated Statchk
1,3-Dichloropropene Sum	CALC	7796324	N/A	2022/01/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	7796788	N/A	2022/01/25	Alina Dobreanu
Chromium (VI) in Water	IC	7796180	N/A	2022/01/25	Theodora LI
Free (WAD) Cyanide	SKAL/CN	7796846	N/A	2022/01/24	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7801542	2022/01/26	2022/01/26	(Kent) Maolin Li
Mercury	CV/AA	7798095	2022/01/25	2022/01/25	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7797531	N/A	2022/01/25	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7801529	2022/01/26	2022/01/27	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7796661	N/A	2022/01/26	Juan Pangilinan

Bureau Veritas ID: RRD594
Sample ID: BH4
Matrix: Water

Collected: 2022/01/20
Shipped:
Received: 2022/01/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7796615	N/A	2022/01/27	Automated Statchk
1,3-Dichloropropene Sum	CALC	7796324	N/A	2022/01/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	7796788	N/A	2022/01/25	Alina Dobreanu
Chromium (VI) in Water	IC	7796180	N/A	2022/01/25	Theodora LI

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Bureau Veritas Job #: C217346
Report Date: 2022/01/28

DS Consultants Limited
Client Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Sampler Initials: RZ

TEST SUMMARY

Bureau Veritas ID: RRD594
Sample ID: BH4
Matrix: Water

Collected: 2022/01/20
Shipped:
Received: 2022/01/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	7796846	N/A	2022/01/24	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7801542	2022/01/26	2022/01/26	(Kent) Maolin Li
Mercury	CV/AA	7798095	2022/01/25	2022/01/25	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7797531	N/A	2022/01/25	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7801529	2022/01/26	2022/01/27	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7796661	N/A	2022/01/26	Juan Pangilinan

Bureau Veritas ID: RRD595
Sample ID: DUP1
Matrix: Water

Collected: 2022/01/20
Shipped:
Received: 2022/01/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7796615	N/A	2022/01/27	Automated Statchk
1,3-Dichloropropene Sum	CALC	7796324	N/A	2022/01/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	7796788	N/A	2022/01/25	Alina Dobreanu
Chromium (VI) in Water	IC	7796180	N/A	2022/01/25	Theodora LI
Free (WAD) Cyanide	SKAL/CN	7796846	N/A	2022/01/24	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7801542	2022/01/26	2022/01/26	(Kent) Maolin Li
Mercury	CV/AA	7798095	2022/01/25	2022/01/25	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7797531	N/A	2022/01/25	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7801529	2022/01/26	2022/01/27	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7796661	N/A	2022/01/26	Juan Pangilinan

Bureau Veritas ID: RRD596
Sample ID: DUP2
Matrix: Water

Collected: 2022/01/20
Shipped:
Received: 2022/01/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7796615	N/A	2022/01/27	Automated Statchk
1,3-Dichloropropene Sum	CALC	7796324	N/A	2022/01/27	Automated Statchk
Chloride by Automated Colourimetry	KONE	7796788	N/A	2022/01/25	Alina Dobreanu
Chromium (VI) in Water	IC	7796180	N/A	2022/01/25	Theodora LI
Free (WAD) Cyanide	SKAL/CN	7796846	N/A	2022/01/24	Nimarta Singh
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7801542	2022/01/26	2022/01/26	(Kent) Maolin Li
Mercury	CV/AA	7798095	2022/01/25	2022/01/25	Gagandeep Rai
Dissolved Metals by ICPMS	ICP/MS	7797531	N/A	2022/01/25	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	7801529	2022/01/26	2022/01/27	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7796661	N/A	2022/01/26	Juan Pangilinan

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C217346
Report Date: 2022/01/28

DS Consultants Limited
Client Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Sampler Initials: RZ

TEST SUMMARY

Bureau Veritas ID: RRD596 Dup
Sample ID: DUP2
Matrix: Water

Collected: 2022/01/20
Shipped:
Received: 2022/01/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury	CV/AA	7798095	2022/01/25	2022/01/25	Gagandeep Rai

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GENERAL COMMENTS

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

Package 1	1.7°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7796661	4-Bromofluorobenzene	2022/01/26	114	70 - 130	113	70 - 130	100	%		
7796661	D4-1,2-Dichloroethane	2022/01/26	101	70 - 130	99	70 - 130	103	%		
7796661	D8-Toluene	2022/01/26	94	70 - 130	100	70 - 130	89	%		
7801529	D10-Anthracene	2022/01/26	87	50 - 130	101	50 - 130	99	%		
7801529	D14-Terphenyl (FS)	2022/01/26	90	50 - 130	111	50 - 130	113	%		
7801529	D8-Acenaphthylene	2022/01/26	80	50 - 130	95	50 - 130	82	%		
7801542	o-Terphenyl	2022/01/26	99	60 - 130	102	60 - 130	104	%		
7796180	Chromium (VI)	2022/01/25	104	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
7796661	1,1,1,2-Tetrachloroethane	2022/01/26	102	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
7796661	1,1,1-Trichloroethane	2022/01/26	106	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
7796661	1,1,2,2-Tetrachloroethane	2022/01/26	104	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
7796661	1,1,2-Trichloroethane	2022/01/26	87	70 - 130	88	70 - 130	<0.50	ug/L	NC	30
7796661	1,1-Dichloroethane	2022/01/26	90	70 - 130	91	70 - 130	<0.20	ug/L	1.9	30
7796661	1,1-Dichloroethylene	2022/01/26	91	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
7796661	1,2-Dichlorobenzene	2022/01/26	91	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
7796661	1,2-Dichloroethane	2022/01/26	99	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
7796661	1,2-Dichloropropane	2022/01/26	91	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
7796661	1,3-Dichlorobenzene	2022/01/26	96	70 - 130	93	70 - 130	<0.50	ug/L	1.6	30
7796661	1,4-Dichlorobenzene	2022/01/26	120	70 - 130	113	70 - 130	<0.50	ug/L	1.6	30
7796661	Acetone (2-Propanone)	2022/01/26	79	60 - 140	82	60 - 140	<10	ug/L	NC	30
7796661	Benzene	2022/01/26	87	70 - 130	86	70 - 130	<0.17	ug/L	NC	30
7796661	Bromodichloromethane	2022/01/26	105	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
7796661	Bromoform	2022/01/26	119	70 - 130	114	70 - 130	<1.0	ug/L	NC	30
7796661	Bromomethane	2022/01/26	106	60 - 140	94	60 - 140	<0.50	ug/L	NC	30
7796661	Carbon Tetrachloride	2022/01/26	110	70 - 130	107	70 - 130	<0.20	ug/L	NC	30
7796661	Chlorobenzene	2022/01/26	97	70 - 130	97	70 - 130	<0.20	ug/L	5.9	30
7796661	Chloroform	2022/01/26	101	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7796661	cis-1,2-Dichloroethylene	2022/01/26	106	70 - 130	104	70 - 130	<0.50	ug/L	1.0	30
7796661	cis-1,3-Dichloropropene	2022/01/26	101	70 - 130	91	70 - 130	<0.30	ug/L	NC	30
7796661	Dibromochloromethane	2022/01/26	98	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
7796661	Dichlorodifluoromethane (FREON 12)	2022/01/26	71	60 - 140	68	60 - 140	<1.0	ug/L	NC	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7796661	Ethylbenzene	2022/01/26	84	70 - 130	85	70 - 130	<0.20	ug/L	NC	30
7796661	Ethylene Dibromide	2022/01/26	95	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
7796661	F1 (C6-C10) - BTEX	2022/01/26					<25	ug/L	NC	30
7796661	F1 (C6-C10)	2022/01/26	85	60 - 140	90	60 - 140	<25	ug/L	NC	30
7796661	Hexane	2022/01/26	86	70 - 130	89	70 - 130	<1.0	ug/L	NC	30
7796661	Methyl Ethyl Ketone (2-Butanone)	2022/01/26	90	60 - 140	91	60 - 140	<10	ug/L	NC	30
7796661	Methyl Isobutyl Ketone	2022/01/26	91	70 - 130	91	70 - 130	<5.0	ug/L	NC	30
7796661	Methyl t-butyl ether (MTBE)	2022/01/26	90	70 - 130	91	70 - 130	<0.50	ug/L	NC	30
7796661	Methylene Chloride(Dichloromethane)	2022/01/26	98	70 - 130	98	70 - 130	<2.0	ug/L	NC	30
7796661	o-Xylene	2022/01/26	87	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
7796661	p+m-Xylene	2022/01/26	88	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
7796661	Styrene	2022/01/26	104	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
7796661	Tetrachloroethylene	2022/01/26	100	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
7796661	Toluene	2022/01/26	97	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
7796661	Total Xylenes	2022/01/26					<0.20	ug/L	NC	30
7796661	trans-1,2-Dichloroethylene	2022/01/26	103	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
7796661	trans-1,3-Dichloropropene	2022/01/26	100	70 - 130	86	70 - 130	<0.40	ug/L	NC	30
7796661	Trichloroethylene	2022/01/26	116	70 - 130	113	70 - 130	<0.20	ug/L	2.0	30
7796661	Trichlorofluoromethane (FREON 11)	2022/01/26	104	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
7796661	Vinyl Chloride	2022/01/26	82	70 - 130	83	70 - 130	<0.20	ug/L	3.3	30
7796788	Dissolved Chloride (Cl-)	2022/01/25	111	80 - 120	101	80 - 120	<1.0	mg/L	1.3	20
7796846	WAD Cyanide (Free)	2022/01/24	109	80 - 120	105	80 - 120	<1	ug/L	NC	20
7797531	Dissolved Antimony (Sb)	2022/01/25	112	80 - 120	102	80 - 120	<0.50	ug/L	13	20
7797531	Dissolved Arsenic (As)	2022/01/25	108	80 - 120	100	80 - 120	<1.0	ug/L	NC	20
7797531	Dissolved Barium (Ba)	2022/01/25	106	80 - 120	99	80 - 120	<2.0	ug/L	1.5	20
7797531	Dissolved Beryllium (Be)	2022/01/25	114	80 - 120	102	80 - 120	<0.40	ug/L	NC	20
7797531	Dissolved Boron (B)	2022/01/25	104	80 - 120	98	80 - 120	<10	ug/L	2.2	20
7797531	Dissolved Cadmium (Cd)	2022/01/25	106	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
7797531	Dissolved Chromium (Cr)	2022/01/25	102	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7797531	Dissolved Cobalt (Co)	2022/01/25	103	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
7797531	Dissolved Copper (Cu)	2022/01/25	104	80 - 120	98	80 - 120	<0.90	ug/L	3.9	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7797531	Dissolved Lead (Pb)	2022/01/25	98	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
7797531	Dissolved Molybdenum (Mo)	2022/01/25	117	80 - 120	104	80 - 120	<0.50	ug/L	1.6	20
7797531	Dissolved Nickel (Ni)	2022/01/25	98	80 - 120	95	80 - 120	<1.0	ug/L	NC	20
7797531	Dissolved Selenium (Se)	2022/01/25	107	80 - 120	101	80 - 120	<2.0	ug/L	NC	20
7797531	Dissolved Silver (Ag)	2022/01/25	105	80 - 120	102	80 - 120	<0.090	ug/L	NC	20
7797531	Dissolved Sodium (Na)	2022/01/25	NC	80 - 120	94	80 - 120	<100	ug/L	3.1	20
7797531	Dissolved Thallium (Tl)	2022/01/25	98	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
7797531	Dissolved Uranium (U)	2022/01/25	99	80 - 120	95	80 - 120	<0.10	ug/L	2.0	20
7797531	Dissolved Vanadium (V)	2022/01/25	107	80 - 120	98	80 - 120	<0.50	ug/L	12	20
7797531	Dissolved Zinc (Zn)	2022/01/25	101	80 - 120	98	80 - 120	<5.0	ug/L	NC	20
7798095	Mercury (Hg)	2022/01/25	82	75 - 125	93	80 - 120	<0.10	ug/L	NC	20
7801529	1-Methylnaphthalene	2022/01/26	104	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
7801529	2-Methylnaphthalene	2022/01/26	105	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
7801529	Acenaphthene	2022/01/26	93	50 - 130	91	50 - 130	<0.050	ug/L	NC	30
7801529	Acenaphthylene	2022/01/26	90	50 - 130	86	50 - 130	<0.050	ug/L	NC	30
7801529	Anthracene	2022/01/26	92	50 - 130	91	50 - 130	<0.050	ug/L	NC	30
7801529	Benzo(a)anthracene	2022/01/26	85	50 - 130	86	50 - 130	<0.050	ug/L	NC	30
7801529	Benzo(a)pyrene	2022/01/26	84	50 - 130	85	50 - 130	<0.0090	ug/L	NC	30
7801529	Benzo(b/j)fluoranthene	2022/01/26	84	50 - 130	88	50 - 130	<0.050	ug/L	NC	30
7801529	Benzo(g,h,i)perylene	2022/01/26	87	50 - 130	87	50 - 130	<0.050	ug/L	NC	30
7801529	Benzo(k)fluoranthene	2022/01/26	81	50 - 130	80	50 - 130	<0.050	ug/L	NC	30
7801529	Chrysene	2022/01/26	90	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
7801529	Dibenzo(a,h)anthracene	2022/01/26	80	50 - 130	80	50 - 130	<0.050	ug/L	NC	30
7801529	Fluoranthene	2022/01/26	107	50 - 130	108	50 - 130	<0.050	ug/L	NC	30
7801529	Fluorene	2022/01/26	102	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
7801529	Indeno(1,2,3-cd)pyrene	2022/01/26	91	50 - 130	92	50 - 130	<0.050	ug/L	NC	30
7801529	Naphthalene	2022/01/26	91	50 - 130	87	50 - 130	<0.050	ug/L	NC	30
7801529	Phenanthrene	2022/01/26	98	50 - 130	98	50 - 130	<0.030	ug/L	NC	30
7801529	Pyrene	2022/01/26	104	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
7801542	F2 (C10-C16 Hydrocarbons)	2022/01/27	90	60 - 130	90	60 - 130	<100	ug/L	NC	30
7801542	F3 (C16-C34 Hydrocarbons)	2022/01/27	95	60 - 130	97	60 - 130	<200	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7801542	F4 (C34-C50 Hydrocarbons)	2022/01/27	98	60 - 130	98	60 - 130	<200	ug/L	NC	30

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

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

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

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

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

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

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

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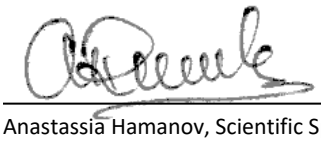
Bureau Veritas Job #: C217346
Report Date: 2022/01/28

DS Consultants Limited
Client Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Sampler Initials: RZ

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

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

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Bureau Veritas Job #: C217346
Report Date: 2022/01/28

DS Consultants Limited
Client Project #: 22-012-100
Site Location: 3056 NEYAGAWA BLVD.
Sampler Initials: RZ

Exceedance Summary Table – Reg153/04 T2-GW-C

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
BH1	RRD592-01	Dissolved Chloride (Cl-)	790	900	10	mg/L
DUP2	RRD596-01	Dissolved Chloride (Cl-)	790	900	10	mg/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

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21-Jan-22 15:16
Ashton Gibson
C217346

DSG ENV-951

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

		Bottle Types																																
		Inorganics						Organics											Hydrocarbons							Volatiles				Other					
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4						
1	BH1	TS																																
2	BH2	TS																																
3	BH4	TS																																
4	DUP1	TS																																
5	DUP2	TS																																
6																																		
7																																		
8																																		
9																																		
10																																		

Comments: Except Metals, Cr VI, Hg

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print) DIPIKA SINGH

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

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#32616 DS Consultants Limited	Company Name:	DS Consultants Ltd	Quotation #:	B83863	Bureau Veritas Job #:	Bottle Order #: 862749
Attention:	Accounts Payable	Attention:	Kirsten Olsen	P.O. #:			
Address:	6221 Highway 7, Unit 16 Vaughan ON L4H 0K8	Address:		Project:	22-012-100	COC #: C#862749-01-01	Project Manager: Ashton Gibson
Tel:	(905) 264-9393 Fax:	Tel:	Fax:	Project Name:			
Email:	accounting@dsconsultants.ca;bindu.goel@dsconsultant	Email:	kirsten.olsen@dsconsultants.ca	Site #:	3056 Nayagawa Blvd		
				Sampled By:			

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

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

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558 [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO [ ] Reg 406 Table ___
- [ ] Other ___

Special Instructions

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

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

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

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

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): O.Reg 153 VOCs by HS & F1-F4	O.Reg 153 PAHs	O.Reg 153 Metals & Inorganics Pkg (WR)	# of Bottles	Comments
1		BH1	Jan 21 22	am pm	GW	Y	X	X	X		
2		BH2					X	X	X		
3		BH4					X	X	X		
4		DUP 1					X	X	X		
5		DUP 2					X	X	X		
6		Trip Blank					X				
7											
8											
9											
10											

21-Jan-22 15:16
Ashton Gibson
C217346
DSG ENV-951

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
Ryan Zhang	2022 Jan 21										
Ryan Zhang	2022 Jan 21			22/01/21	15:16				Intact		

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

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

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

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

White: Bureau Veritas Yellow: Client

FINAL REPORT

CA40240-JUN23 R

22-012-101

Prepared for

DS Consultants

FINAL REPORT

First Page

CLIENT DETAILS

Client	DS Consultants
Address	6221 Highway 7 Unit 6 Vaughan, Ontario L4H 0K8. Canada
Contact	Fahmida Anwar
Telephone	647-879-3866
Facsimile	
Email	fanwar@dsconsultants.ca
Project	22-012-101
Order Number	
Samples	Soil (13)

LABORATORY DETAILS

Project Specialist	Brad Moore Hon. B.Sc
Laboratory	SGS Canada Inc.
Address	185 Concession St., Lakefield ON, K0L 2H0
Telephone	705-652-2143
Facsimile	705-652-6365
Email	brad.moore@sgs.com
SGS Reference	CA40240-JUN23
Received	06/21/2023
Approved	06/29/2023
Report Number	CA40240-JUN23 R
Date Reported	06/29/2023

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: 8 degrees C
Cooling Agent Present:yes
Custody Seal Present:yes

Chain of Custody Number:032208/032209

SIGNATORIES

Brad Moore Hon. B.Sc

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Client: DS Consultants
Project: 22-012-101
Project Manager: Fahmida Anwar
Samplers: NA

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	BH23-9 SS1	BH23-9 SS2	BH23-9 SS3	BH23-10 SS1	BH23-10 SS2	BH23-10 SS3	BH23-11 SS2	BH23-12 SS2
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	19/06/2023	19/06/2023	19/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
BTEX											
Benzene	µg/g	0.02	0.21	---	---	< 0.02	---	---	< 0.02	---	---
Ethylbenzene	µg/g	0.05	1.1	---	---	< 0.05	---	---	< 0.05	---	---
Toluene	µg/g	0.05	2.3	---	---	< 0.05	---	---	< 0.05	---	---
Xylene (total)	µg/g	0.05	3.1	---	---	< 0.05	---	---	< 0.05	---	---
m/p-xylene	µg/g	0.05		---	---	< 0.05	---	---	< 0.05	---	---
o-xylene	µg/g	0.05		---	---	< 0.05	---	---	< 0.05	---	---
Hydrides											
Antimony	µg/g	0.8	7.5	< 0.8	---	---	---	< 0.8	---	< 0.8	< 0.8
Arsenic	µg/g	0.5	18	7.5	---	---	---	4.7	---	4.9	5.6
Selenium	µg/g	0.1	2.4	< 0.1	---	---	---	< 0.1	---	< 0.1	< 0.1
Metals and Inorganics											
Moisture Content	%	no		4.0	9.2	8.6	11.3	6.5	8.5	7.7	10.8
Barium	µg/g	0.1	390	8.2	---	---	---	68	---	61	82
Beryllium	µg/g	0.02	4	0.08	---	---	---	0.70	---	0.73	0.67
Boron	µg/g	1	120	10	---	---	---	13	---	14	10
Cadmium	µg/g	0.05	1.2	0.21	---	---	---	0.11	---	0.10	0.10
Chromium	µg/g	0.5	160	2.4	---	---	---	18	---	20	18
Cobalt	µg/g	0.01	22	1.4	---	---	---	11	---	12	11
Copper	µg/g	0.1	140	4.2	---	---	---	16	---	18	21
Lead	µg/g	0.1	120	9.9	---	---	---	10	---	12	9.8
Molybdenum	µg/g	0.1	6.9	0.8	---	---	---	0.6	---	0.8	0.5

Client: DS Consultants
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Project Manager: Fahmida Anwar
Samplers: NA

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	BH23-9 SS1	BH23-9 SS2	BH23-9 SS3	BH23-10 SS1	BH23-10 SS2	BH23-10 SS3	BH23-11 SS2	BH23-12 SS2
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	19/06/2023	19/06/2023	19/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics (continued)											
Nickel	µg/g	0.5	100	3.4	---	---	---	24	---	27	25
Silver	µg/g	0.05	20	< 0.05	---	---	---	< 0.05	---	< 0.05	< 0.05
Thallium	µg/g	0.02	1	0.04	---	---	---	0.10	---	0.10	0.13
Uranium	µg/g	0.002	23	0.24	---	---	---	0.50	---	0.51	0.51
Vanadium	µg/g	3	86	< 3	---	---	---	25	---	26	24
Zinc	µg/g	0.7	340	63	---	---	---	49	---	54	52
Water Soluble Boron	µg/g	0.5	1.5	< 0.5	---	---	---	< 0.5	---	< 0.5	< 0.5
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	3.3	< 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	0.26	< 0.05	---	---	< 0.05	---	---	---	---
op-DDT	µg/g	0.02		< 0.02	---	---	< 0.02	---	---	---	---
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	---	---	---	---

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	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	BH23-9 SS1	BH23-9 SS2	BH23-9 SS3	BH23-10 SS1	BH23-10 SS2	BH23-10 SS3	BH23-11 SS2	BH23-12 SS2
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	19/06/2023	19/06/2023	19/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)											
gamma-BHC	µg/g	0.01	0.056	< 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	0.15	< 0.01	---	---	< 0.01	---	---	---	---
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01	---	---	< 0.01	---	---	---	---
Hexachlorobenzene	µg/g	0.01	0.52	< 0.01	---	---	< 0.01	---	---	---	---
Hexachlorobutadiene	µg/g	0.01	0.012	< 0.01	---	---	< 0.01	---	---	---	---
Hexachloroethane	µg/g	0.01	0.089	< 0.01	---	---	< 0.01	---	---	---	---
Methoxychlor	µg/g	0.05	0.13	< 0.05	---	---	< 0.05	---	---	---	---
Other (ORP)											
Mercury	ug/g	0.05	0.27	< 0.05	---	---	---	< 0.05	---	< 0.05	< 0.05
Sodium Adsorption Ratio	No unit	0.2	5	0.3	---	---	---	0.2	---	0.2	2.3
SAR Calcium	mg/L	0.2		20.9	---	---	---	20.7	---	10.6	14.2
SAR Magnesium	mg/L	0.3		9.6	---	---	---	1.4	---	0.8	1.1
SAR Sodium	mg/L	0.1		7.7	---	---	---	3.7	---	3.0	33.5
Conductivity	mS/cm	0.002	0.7	0.24	---	---	---	0.13	---	0.13	0.23
pH	pH Units	0.05		8.38	---	---	---	7.82	---	7.79	7.82
Chromium VI	µg/g	0.2	8	< 0.2	---	---	---	< 0.2	---	< 0.2	< 0.2
Free Cyanide	µg/g	0.05	0.051	< 0.05	---	---	---	< 0.05	---	< 0.05	< 0.05

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	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	BH23-9 SS1	BH23-9 SS2	BH23-9 SS3	BH23-10 SS1	BH23-10 SS2	BH23-10 SS3	BH23-11 SS2	BH23-12 SS2
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	19/06/2023	19/06/2023	19/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
PAHs											
Acenaphthene	µg/g	0.05	7.9	---	< 0.05	---	---	< 0.05	---	---	---
Acenaphthylene	µg/g	0.05	0.15	---	< 0.05	---	---	< 0.05	---	---	---
Anthracene	µg/g	0.05	0.67	---	< 0.05	---	---	< 0.05	---	---	---
Benzo(a)anthracene	µg/g	0.05	0.5	---	< 0.05	---	---	< 0.05	---	---	---
Benzo(a)pyrene	µg/g	0.05	0.3	---	< 0.05	---	---	< 0.05	---	---	---
Benzo(b+j)fluoranthene	µg/g	0.05	0.78	---	< 0.05	---	---	< 0.05	---	---	---
Benzo(ghi)perylene	µg/g	0.1	6.6	---	< 0.1	---	---	< 0.1	---	---	---
Benzo(k)fluoranthene	µg/g	0.05	0.78	---	< 0.05	---	---	< 0.05	---	---	---
Chrysene	µg/g	0.05	7	---	< 0.05	---	---	< 0.05	---	---	---
Dibenzo(a,h)anthracene	µg/g	0.06	0.1	---	< 0.06	---	---	< 0.06	---	---	---
Fluoranthene	µg/g	0.05	0.69	---	< 0.05	---	---	< 0.05	---	---	---
Fluorene	µg/g	0.05	62	---	< 0.05	---	---	< 0.05	---	---	---
Indeno(1,2,3-cd)pyrene	µg/g	0.1	0.38	---	< 0.1	---	---	< 0.1	---	---	---
1-Methylnaphthalene	µg/g	0.05		---	< 0.05	---	---	< 0.05	---	---	---
2-Methylnaphthalene	µg/g	0.05		---	< 0.05	---	---	< 0.05	---	---	---
Methylnaphthalene, 2-(1-)	µg/g	0.05	0.99	---	< 0.05	---	---	< 0.05	---	---	---
Naphthalene	µg/g	0.05	0.6	---	< 0.05	---	---	< 0.05	---	---	---
Phenanthrene	µg/g	0.05	6.2	---	< 0.05	---	---	< 0.05	---	---	---
Pyrene	µg/g	0.05	78	---	< 0.05	---	---	< 0.05	---	---	---

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	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	BH23-9 SS1	BH23-9 SS2	BH23-9 SS3	BH23-10 SS1	BH23-10 SS2	BH23-10 SS3	BH23-11 SS2	BH23-12 SS2
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	19/06/2023	19/06/2023	19/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate											
Surr Decachlorobiphenyl	Surr Rec %			105	---	---	95	---	---	---	---
PHCs											
F1 (C6-C10)	µg/g	10	55	---	---	< 10	---	---	< 10	---	---
F1-BTEX (C6-C10)	µg/g	10	55	---	---	< 10	---	---	< 10	---	---
F2 (C10-C16)	µg/g	10	98	---	---	< 10	---	---	< 10	---	---
F3 (C16-C34)	µg/g	50	300	---	---	< 50	---	---	< 50	---	---
F4 (C34-C50)	µg/g	50	2800	---	---	< 50	---	---	< 50	---	---
Chromatogram returned to baseline at nC50	Yes / No	no		---	---	YES	---	---	YES	---	---
SVOC Surrogates											
Surr 2-Fluorobiphenyl	Surr Rec %	no		---	86	---	---	89	---	---	---
Surr 4-Terphenyl-d14	Surr Rec %	no		---	88	---	---	90	---	---	---
Surr 2-Methylnaphthalene-D10	Surr Rec %	no		---	84	---	---	81	---	---	---
Surr Fluoranthene-D10	Surr Rec %	no		---	82	---	---	86	---	---	---

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	Sample Number			9	10	11	12	13	14	15	16
	Sample Name			BH23-9 SS1	BH23-9 SS2	BH23-9 SS3	BH23-10 SS1	BH23-10 SS2	BH23-10 SS3	BH23-11 SS2	BH23-12 SS2
	Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date			19/06/2023	19/06/2023	19/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023
Parameter		**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
THMs (VOC)												
Bromodichloromethane		µg/g	0.05	1.5	---	---	< 0.05	---	---	< 0.05	---	---
Bromoform		µg/g	0.05	0.27	---	---	< 0.05	---	---	< 0.05	---	---
Dibromochloromethane		µg/g	0.05	2.3	---	---	< 0.05	---	---	< 0.05	---	---
VOC Surrogates												
Surr 1,2-Dichloroethane-d4		Surr Rec %	no		---	---	102	---	---	101	---	---
Surr 4-Bromofluorobenzene		Surr Rec %	no		---	---	94	---	---	95	---	---
Surr 2-Bromo-1-Chloropropane		Surr Rec %	no		---	---	93	---	---	95	---	---
Surr TCMX		Surr Rec %	no		76	---	---	69	---	---	---	---
VOCs												
Acetone		µg/g	0.5	16	---	---	< 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	2.4	---	---	< 0.05	---	---	< 0.05	---	---
Chloroform		µg/g	0.05	0.05	---	---	< 0.05	---	---	< 0.05	---	---
1,2-Dichlorobenzene		µg/g	0.05	1.2	---	---	< 0.05	---	---	< 0.05	---	---
1,3-Dichlorobenzene		µg/g	0.05	4.8	---	---	< 0.05	---	---	< 0.05	---	---
1,4-Dichlorobenzene		µg/g	0.05	0.083	---	---	< 0.05	---	---	< 0.05	---	---
Dichlorodifluoromethane		µg/g	0.05	16	---	---	< 0.05	---	---	< 0.05	---	---
1,1-Dichloroethane		µg/g	0.05	0.47	---	---	< 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	---	---

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	Sample Number	9	10	11	12	13	14	15	16
	Sample Name	BH23-9 SS1	BH23-9 SS2	BH23-9 SS3	BH23-10 SS1	BH23-10 SS2	BH23-10 SS3	BH23-11 SS2	BH23-12 SS2
	Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	19/06/2023	19/06/2023	19/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOCs (continued)											
trans-1,2-Dichloroethylene	µg/g	0.05	0.084	---	---	< 0.05	---	---	< 0.05	---	---
cis-1,2-Dichloroethylene	µg/g	0.05	1.9	---	---	< 0.05	---	---	< 0.05	---	---
1,2-Dichloropropane	µg/g	0.05	0.05	---	---	< 0.05	---	---	< 0.05	---	---
cis-1,3-dichloropropene	µg/g	0.03		---	---	< 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	2.8	---	---	< 0.05	---	---	< 0.05	---	---
Methyl ethyl ketone	µg/g	0.5	16	---	---	< 0.5	---	---	< 0.5	---	---
Methyl isobutyl ketone	µg/g	0.5	1.7	---	---	< 0.5	---	---	< 0.5	---	---
Methyl-t-butyl Ether	µg/g	0.05	0.75	---	---	< 0.05	---	---	< 0.05	---	---
Methylene Chloride	µg/g	0.05	0.1	---	---	< 0.05	---	---	< 0.05	---	---
Styrene	µg/g	0.05	0.7	---	---	< 0.05	---	---	< 0.05	---	---
Tetrachloroethylene	µg/g	0.05	0.28	---	---	< 0.05	---	---	< 0.05	---	---
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.058	---	---	< 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	0.38	---	---	< 0.05	---	---	< 0.05	---	---
1,1,2-Trichloroethane	µg/g	0.05	0.05	---	---	< 0.05	---	---	< 0.05	---	---
Trichloroethylene	µg/g	0.05	0.061	---	---	< 0.05	---	---	< 0.05	---	---
Trichlorofluoromethane	µg/g	0.05	4	---	---	< 0.05	---	---	< 0.05	---	---
Vinyl Chloride	µg/g	0.02	0.02	---	---	< 0.02	---	---	< 0.02	---	---

Client: DS Consultants
Project: 22-012-101
Project Manager: Fahmida Anwar
Samplers: NA

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

Sample Number				17	18	19	20	21
Sample Name				BH23-13 SS1	BH23-13 SS2	BH23-14 SS1	DUP-3	DUP-4
Sample Matrix				Soil	Soil	Soil	Soil	Soil
Sample Date				20/06/2023	20/06/2023	20/06/2023	19/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**
Hydrides								
Antimony	µg/g	0.8	7.5	---	< 0.8	---	---	---
Arsenic	µg/g	0.5	18	---	5.3	---	---	---
Selenium	µg/g	0.1	2.4	---	0.1	---	---	---
Metals and Inorganics								
Moisture Content	%	no		13.8	13.3	14.8	9.5	12.9
Barium	µg/g	0.1	390	---	87	---	---	---
Beryllium	µg/g	0.02	4	---	0.74	---	---	---
Boron	µg/g	1	120	---	10	---	---	---
Cadmium	µg/g	0.05	1.2	---	0.11	---	---	---
Chromium	µg/g	0.5	160	---	20	---	---	---
Cobalt	µg/g	0.01	22	---	12	---	---	---
Copper	µg/g	0.1	140	---	22	---	---	---
Lead	µg/g	0.1	120	---	11	---	---	---
Molybdenum	µg/g	0.1	6.9	---	0.4	---	---	---
Nickel	µg/g	0.5	100	---	27	---	---	---
Silver	µg/g	0.05	20	---	< 0.05	---	---	---
Thallium	µg/g	0.02	1	---	0.13	---	---	---
Uranium	µg/g	0.002	23	---	0.50	---	---	---
Vanadium	µg/g	3	86	---	26	---	---	---
Zinc	µg/g	0.7	340	---	51	---	---	---
Water Soluble Boron	µg/g	0.5	1.5	---	< 0.5	---	---	---

Client: DS Consultants
Project: 22-012-101
Project Manager: Fahmida Anwar
Samplers: NA

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number			17	18	19	20	21
	Sample Name			BH23-13 SS1	BH23-13 SS2	BH23-14 SS1	DUP-3	DUP-4
	Sample Matrix			Soil	Soil	Soil	Soil	Soil
	Sample Date			20/06/2023	20/06/2023	20/06/2023	19/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs)								
Aldrin	µg/g	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
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	3.3	< 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	0.26	< 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	< 0.05	---	< 0.05	---	< 0.05
Dieldrin	µg/g	0.05	0.05	< 0.05	---	< 0.05	---	< 0.05
gamma-BHC	µg/g	0.01	0.056	< 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
Endrin	µg/g	0.04	0.04	< 0.04	---	< 0.04	---	< 0.04
Heptachlor	µg/g	0.01	0.15	< 0.01	---	< 0.01	---	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01	---	< 0.01	---	< 0.01
Hexachlorobenzene	µg/g	0.01	0.52	< 0.01	---	< 0.01	---	< 0.01

Client: DS Consultants
Project: 22-012-101
Project Manager: Fahmida Anwar
Samplers: NA

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

	Sample Number			17	18	19	20	21
	Sample Name			BH23-13 SS1	BH23-13 SS2	BH23-14 SS1	DUP-3	DUP-4
	Sample Matrix			Soil	Soil	Soil	Soil	Soil
	Sample Date			20/06/2023	20/06/2023	20/06/2023	19/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)								
Hexachlorobutadiene	µg/g	0.01	0.012	< 0.01	---	< 0.01	---	< 0.01
Hexachloroethane	µg/g	0.01	0.089	< 0.01	---	< 0.01	---	< 0.01
Methoxychlor	µg/g	0.05	0.13	< 0.05	---	< 0.05	---	< 0.05
Other (ORP)								
Mercury	ug/g	0.05	0.27	---	< 0.05	---	---	---
Sodium Adsorption Ratio	No unit	0.2	5	---	1.2	---	---	---
SAR Calcium	mg/L	0.2		---	18.2	---	---	---
SAR Magnesium	mg/L	0.3		---	1.5	---	---	---
SAR Sodium	mg/L	0.1		---	19.2	---	---	---
Conductivity	mS/cm	0.002	0.7	---	0.19	---	---	---
pH	pH Units	0.05		---	7.52	---	---	---
Chromium VI	µg/g	0.2	8	---	< 0.2	---	---	---
Free Cyanide	µg/g	0.05	0.051	---	< 0.05	---	---	---

Client: DS Consultants
Project: 22-012-101
Project Manager: Fahmida Anwar
Samplers: NA

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

Sample Number			17	18	19	20	21	
Sample Name			BH23-13 SS1	BH23-13 SS2	BH23-14 SS1	DUP-3	DUP-4	
Sample Matrix			Soil	Soil	Soil	Soil	Soil	
Sample Date			20/06/2023	20/06/2023	20/06/2023	19/06/2023	20/06/2023	
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**
PAHs								
Acenaphthene	µg/g	0.05	7.9	---	---	---	< 0.05	---
Acenaphthylene	µg/g	0.05	0.15	---	---	---	< 0.05	---
Anthracene	µg/g	0.05	0.67	---	---	---	< 0.05	---
Benzo(a)anthracene	µg/g	0.05	0.5	---	---	---	< 0.05	---
Benzo(a)pyrene	µg/g	0.05	0.3	---	---	---	< 0.05	---
Benzo(b+j)fluoranthene	µg/g	0.05	0.78	---	---	---	< 0.05	---
Benzo(ghi)perylene	µg/g	0.1	6.6	---	---	---	< 0.1	---
Benzo(k)fluoranthene	µg/g	0.05	0.78	---	---	---	< 0.05	---
Chrysene	µg/g	0.05	7	---	---	---	< 0.05	---
Dibenzo(a,h)anthracene	µg/g	0.06	0.1	---	---	---	< 0.06	---
Fluoranthene	µg/g	0.05	0.69	---	---	---	< 0.05	---
Fluorene	µg/g	0.05	62	---	---	---	< 0.05	---
Indeno(1,2,3-cd)pyrene	µg/g	0.1	0.38	---	---	---	< 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	0.99	---	---	---	< 0.05	---
Naphthalene	µg/g	0.05	0.6	---	---	---	< 0.05	---
Phenanthrene	µg/g	0.05	6.2	---	---	---	< 0.05	---
Pyrene	µg/g	0.05	78	---	---	---	< 0.05	---

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Samplers: NA

MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

			Sample Number	17	18	19	20	21
			Sample Name	BH23-13 SS1	BH23-13 SS2	BH23-14 SS1	DUP-3	DUP-4
			Sample Matrix	Soil	Soil	Soil	Soil	Soil
			Sample Date	20/06/2023	20/06/2023	20/06/2023	19/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate								
Surr Decachlorobiphenyl	Surr Rec %			98	---	90	---	108
SVOC Surrogates								
Surr 2-Fluorobiphenyl	Surr Rec %	no		---	---	---	83	---
Surr 4-Terphenyl-d14	Surr Rec %	no		---	---	---	85	---
Surr 2-Methylnaphthalene-D10	Surr Rec %	no		---	---	---	81	---
Surr Fluoranthene-D10	Surr Rec %	no		---	---	---	79	---

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MATRIX: SOIL

L1 = REG153 / SOIL / COARSE - TABLE 2 - Residential/Parkland - UNDEFINED

Sample Number			17	18	19	20	21
Sample Name			BH23-13 SS1	BH23-13 SS2	BH23-14 SS1	DUP-3	DUP-4
Sample Matrix			Soil	Soil	Soil	Soil	Soil
Sample Date			20/06/2023	20/06/2023	20/06/2023	19/06/2023	20/06/2023
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**
Surr TCMX	Surr Rec %	no		79	---	52	---	73

EXCEEDANCE SUMMARY

No exceedances are present above the regulatory limit(s) indicated

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	EWL0634-JUN23	mS/cm	0.002	<0.002	0	10	99	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	SKA5097-JUN23	µg/g	0.05	<0.05	ND	20	95	80	120	98	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	SKA5089-JUN23	ug/g	0.2	<0.2	ND	20	95	80	120	78	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	EMS0209-JUN23	ug/g	0.05	<0.05	ND	20	102	80	120	80	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	ESG0057-JUN23	mg/L	0.2	<0.2	0	20	99	80	120	104	70	130
SAR Magnesium	ESG0057-JUN23	mg/L	0.3	<0.3	1	20	99	80	120	109	70	130
SAR Sodium	ESG0057-JUN23	mg/L	0.1	<0.1	1	20	103	80	120	96	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	EMS0209-JUN23	ug/g	0.05	<0.05	9	20	108	70	130	107	70	130
Arsenic	EMS0209-JUN23	µg/g	0.5	<0.5	2	20	92	70	130	92	70	130
Barium	EMS0209-JUN23	ug/g	0.1	<0.1	1	20	96	70	130	110	70	130
Beryllium	EMS0209-JUN23	µg/g	0.02	<0.02	0	20	99	70	130	98	70	130
Boron	EMS0209-JUN23	µg/g	1	<1	4	20	102	70	130	90	70	130
Cadmium	EMS0209-JUN23	ug/g	0.05	<0.05	7	20	99	70	130	93	70	130
Cobalt	EMS0209-JUN23	µg/g	0.01	<0.01	2	20	99	70	130	99	70	130
Chromium	EMS0209-JUN23	µg/g	0.5	<0.5	1	20	100	70	130	97	70	130
Copper	EMS0209-JUN23	µg/g	0.1	<0.1	1	20	100	70	130	92	70	130
Molybdenum	EMS0209-JUN23	µg/g	0.1	<0.1	7	20	102	70	130	98	70	130
Nickel	EMS0209-JUN23	ug/g	0.5	<0.5	2	20	105	70	130	98	70	130
Lead	EMS0209-JUN23	ug/g	0.1	<0.1	3	20	102	70	130	97	70	130
Antimony	EMS0209-JUN23	µg/g	0.8	<0.8	ND	20	107	70	130	90	70	130
Selenium	EMS0209-JUN23	ug/g	0.1	<0.1	1	20	102	70	130	92	70	130
Thallium	EMS0209-JUN23	µg/g	0.02	<0.02	6	20	NV	70	130	96	70	130
Uranium	EMS0209-JUN23	µg/g	0.002	<0.002	2	20	96	70	130	96	70	130
Vanadium	EMS0209-JUN23	µg/g	3	<3	1	20	100	70	130	96	70	130
Zinc	EMS0209-JUN23	µg/g	0.7	<0.7	1	20	104	70	130	88	70	130

QC SUMMARY

Pesticides

Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENVIGC-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	GCM0381-JUN23	µg/g	0.05	< 0.05	ND	40	83	50	140	81	50	140
alpha-Chlordane	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	81	50	140	90	50	140
Dieldrin	GCM0381-JUN23	µg/g	0.05	< 0.05	ND	40	87	50	140	85	50	140
Endosulfan I	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	82	50	140	86	50	140
Endosulfan II	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	88	50	140	92	50	140
Endrin	GCM0381-JUN23	µg/g	0.04	< 0.04	ND	40	91	50	140	92	50	140
gamma-BHC	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	83	50	140	81	50	140
gamma-Chlordane	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	81	50	140	90	50	140
Heptachlor epoxide	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	81	50	140	86	50	140
Heptachlor	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	83	50	140	83	50	140
Hexachlorobenzene	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	82	50	140	84	50	140
Hexachlorobutadiene	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	82	50	140	85	50	140
Hexachloroethane	GCM0381-JUN23	µg/g	0.01	< 0.01	ND	40	81	50	140	83	50	140
Methoxychlor	GCM0381-JUN23	µg/g	0.05	< 0.05	ND	40	88	50	140	131	50	140
o,p-DDD	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	93	50	140	108	50	140
o,p-DDE	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	82	50	140	91	50	140
op-DDT	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	89	50	140	73	50	140
pp-DDD	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	90	50	140	122	50	140
pp-DDE	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	83	50	140	94	50	140
pp-DDT	GCM0381-JUN23	µg/g	0.02	< 0.02	ND	40	89	50	140	123	50	140

QC SUMMARY

Petroleum Hydrocarbons (F1)

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
F1 (C6-C10)	GCM0338-JUN23	µg/g	10	<10	ND	30	115	80	120	111	60	140

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)	GCM0364-JUN23	µg/g	10	<10	ND	30	114	80	120	113	60	140
F3 (C16-C34)	GCM0364-JUN23	µg/g	50	<50	ND	30	114	80	120	113	60	140
F4 (C34-C50)	GCM0364-JUN23	µg/g	50	<50	ND	30	114	80	120	113	60	140

QC SUMMARY

pH

Method: SM 4500 I 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	ARD0105-JUN23	pH Units	0.05		0	20	103	80	120			

QC SUMMARY

Semi-Volatile Organics

Method: EPA 3541/8270D | 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
1-Methylnaphthalene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	85	50	140	60	50	140
2-Methylnaphthalene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	84	50	140	61	50	140
Acenaphthene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	81	50	140	63	50	140
Acenaphthylene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	77	50	140	60	50	140
Anthracene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	80	50	140	61	50	140
Benzo(a)anthracene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	82	50	140	63	50	140
Benzo(a)pyrene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	80	50	140	60	50	140
Benzo(b+j)fluoranthene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	82	50	140	60	50	140
Benzo(ghi)perylene	GCM0409-JUN23	µg/g	0.1	< 0.1	ND	40	84	50	140	63	50	140
Benzo(k)fluoranthene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	81	50	140	61	50	140
Chrysene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	82	50	140	62	50	140
Dibenzo(a,h)anthracene	GCM0409-JUN23	µg/g	0.06	< 0.06	ND	40	79	50	140	61	50	140
Fluoranthene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	79	50	140	59	50	140
Fluorene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	81	50	140	65	50	140
Indeno(1,2,3-cd)pyrene	GCM0409-JUN23	µg/g	0.1	< 0.1	ND	40	80	50	140	60	50	140
Naphthalene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	84	50	140	63	50	140
Phenanthrene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	81	50	140	60	50	140
Pyrene	GCM0409-JUN23	µg/g	0.05	< 0.05	ND	40	83	50	140	61	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	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	92	50	140
1,1,1-Trichloroethane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	105	60	130	94	50	140
1,1,2,2-Tetrachloroethane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	98	60	130	85	50	140
1,1,2-Trichloroethane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	101	60	130	89	50	140
1,1-Dichloroethane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	103	60	130	98	50	140
1,1-Dichloroethylene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	107	60	130	99	50	140
1,2-Dichlorobenzene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	103	60	130	85	50	140
1,2-Dichloroethane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	99	60	130	92	50	140
1,2-Dichloropropane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	95	50	140
1,3-Dichlorobenzene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	104	60	130	87	50	140
1,4-Dichlorobenzene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	105	60	130	87	50	140
Acetone	GCM0337-JUN23	µg/g	0.5	< 0.5	ND	50	96	50	140	96	50	140
Benzene	GCM0337-JUN23	µg/g	0.02	< 0.02	ND	50	103	60	130	95	50	140
Bromodichloromethane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	93	50	140
Bromoform	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	95	60	130	83	50	140
Bromomethane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	100	50	140	94	50	140
Carbon tetrachloride	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	106	60	130	92	50	140
Chlorobenzene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	102	60	130	91	50	140
Chloroform	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	101	60	130	96	50	140
cis-1,2-Dichloroethylene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	101	60	130	94	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	GCM0337-JUN23	µg/g	0.03	< 0.03	ND	50	104	60	130	96	50	140
Dibromochloromethane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	98	60	130	90	50	140
Dichlorodifluoromethane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	95	50	140	87	50	140
Ethylbenzene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	104	60	130	93	50	140
Ethylenedibromide	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	98	60	130	88	50	140
n-Hexane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	122	60	130	98	50	140
m/p-xylene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	103	60	130	92	50	140
Methyl ethyl ketone	GCM0337-JUN23	µg/g	0.5	< 0.5	ND	50	95	50	140	86	50	140
Methyl isobutyl ketone	GCM0337-JUN23	µg/g	0.5	< 0.5	ND	50	98	50	140	90	50	140
Methyl-t-butyl Ether	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	101	60	130	96	50	140
Methylene Chloride	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	100	60	130	97	50	140
o-xylene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	104	60	130	94	50	140
Styrene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	101	60	130	92	50	140
Tetrachloroethylene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	106	60	130	90	50	140
Toluene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	103	60	130	94	50	140
trans-1,2-Dichloroethylene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	104	60	130	97	50	140
trans-1,3-dichloropropene	GCM0337-JUN23	µg/g	0.03	< 0.03	ND	50	103	60	130	93	50	140
Trichloroethylene	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	105	60	130	95	50	140
Trichlorofluoromethane	GCM0337-JUN23	µg/g	0.05	< 0.05	ND	50	105	50	140	93	50	140
Vinyl Chloride	GCM0337-JUN23	µg/g	0.02	< 0.02	ND	50	99	50	140	90	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	ESG0042-JUN23	µg/g	0.5	<0.5	ND	20	102	80	120	93	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

Results relate only to the sample tested.
Data reported represent the sample as submitted to SGS. 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 and Excess Soil Quality" 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.

SGS Canada Inc. statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.
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This report supersedes all previous versions.

-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Industries & Environment - 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: 032208 Page 1 of 2

Laboratory Information Section - Lab use only

Received By: Jhoneer
Received Date: 06/21/2023 (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) 8.8
LAB LIMS #: CA40240-Jun23

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☐ (same as Report Information)
Contact: Accounting	Company: DS Consultants
Address: Unit 16 6221 Hwy 7 Vaughan	Contact: Fahmida Anwar
Phone:	Address:
Fax:	Phone:
Email:	Email: fanwar@dsconsultants.ca

Quotation #: P.O. #:
Project #: 22-012-101 Site Location/ID:

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:
☑ Table 2 ☐ Ind/Com ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ Medium/Fine
☐ Table _____ Appx. _____
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,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)	Other (please specify)	Other (please specify)	Other (please specify)	Other (please specify)	Other (please specify)	SPLP: Specify tests ☐ Metals ☐ VOC ☐ 1,4-Dioxane ☐ OCP ☐ ABN	TCLP: Specify tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	BH23-9 SS1	19Jun23		2	S		✓										✓								
2	BH23-9 SS2	↓		1	S					✓	✓														
3	BH23-9 SS3	↓		3	S								✓		✓										
4	BH23-10 SS1	20Jun23		1	S												✓								
5	BH23-10 SS2	↓		1	S		✓			✓	✓														
6	BH23-10 SS3	↓		3	S								✓		✓										
7	BH23-11 SS2	↓		1	S		✓																		
8	BH23-12 SS2	↓		1	S		✓																		
9	BH23-13 SS1	↓		1	S												✓								
10	BH23-13 SS2	↓		1	S		✓																		
11	BH23-14 SS1	↓		1	S												✓								
12	DUP3	19Jun23		1	S					✓	✓														

Observations/Comments/Special Instructions

Sampled By (NAME): Signature: Date: ____/____/____ (mm/dd/yy)
Relinquished by (NAME): Megan Bender Signature: Date: 06/21/23 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.6
Date of Issue: 02 May 2022

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: 032209

Laboratory Information Section - Lab use only

Received By: Atmeer
Received Date: 06 / 21 / 2023 (mm/dd/yy)
Received Time: 15 : 00 (hr : min)
Received By (signature): MD
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ICE
Temperature Upon Receipt (°C): 9.8.9
LAB LIMS #:

REPORT INFORMATION

Company: DS Consultants
Contact: ~~Accou~~ Fahmida Anwar
Address:
Phone:
Fax:
Email: fanwar@dsconsultants.ca

INVOICE INFORMATION

☐ (same as Report Information)
Company: DS Consultants
Contact: Accounting.
Address:
Phone:
Email:

Quotation #:
P.O. #:
Project #: 22-012-101
Site Location/ID:

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)
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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

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☑ Table 2 ☐ Ind/Com ☐ Medium/Fine
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☐ Table _____ Appx. _____
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,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)	Other	Other	Other	Other: Sewer Use: (Specify pkg:	Other: Water Characterization Pkg (General ☐ Extended ☐)	SPLP: Specify tests (☐ Metals ☐ VOC ☐ 1,4-Dioxane ☐ OCP ☐ ABN)	TCLP: Specify tests (☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.)	COMMENTS:
1	DUP-4	20Jun.23		1	S												☑								
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Observations/Comments/Special Instructions

Sampled By (NAME): Signature: Date: ___/___/___ (mm/dd/yy)
Relinquished by (NAME): Megan Bender Signature: Megan Bender Date: 06/21/23 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.6
Date of Issue: 02 May 2022

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Your Project #: 22-012-101
Site Location: 30 56 NEYAGAWA BLVD, OAKVILLE, ON
Your C.O.C. #: 941406-01-01

Attention: Rick Fioravanti

DS Consultants Limited
6221 Highway 7, Unit 16
Vaughan, ON
CANADA L4H 0K8

Report Date: 2023/07/12
Report #: R7712061
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3J3318
Received: 2023/06/30, 12:44

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	3	N/A	2023/07/10	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	4	N/A	2023/07/07		EPA 8260C m
Chloride by Automated Colourimetry (1)	3	N/A	2023/07/07	CAM SOP-00463	SM 23 4500-Cl E m
Chromium (VI) in Water (1)	3	N/A	2023/07/05	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide (1)	3	N/A	2023/07/07	CAM SOP-00457	OMOE E3015 m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	3	2023/07/05	2023/07/06	CAM SOP-00316	CCME PHC-CWS m
Mercury (1)	3	2023/07/05	2023/07/05	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS (1)	3	N/A	2023/07/11	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM) (1)	3	2023/07/05	2023/07/06	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs (1)	4	N/A	2023/07/06	CAM SOP-00230	EPA 8260C m

Remarks:

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

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the

Bureau Veritas 49-55 Elizabeth Ave, Suite 101A, St.John's, NL, Canada A1A 1W9 Tel: 709-754-0203 Toll Free: 888-492-7227 Fax: 709-754-8612 www.bvna.com

Your Project #: 22-012-101
Site Location: 30 56 NEYAGAWA BLVD, OAKVILLE, ON
Your C.O.C. #: 941406-01-01

Attention: Rick Fioravanti

DS Consultants Limited
6221 Highway 7, Unit 16
Vaughan, ON
CANADA L4H 0K8

Report Date: 2023/07/12
Report #: R7712061
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3J3318

Received: 2023/06/30, 12:44

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

Encryption Key

Ashton Gibson
Project Manager
12 Jul 2023 18:12:11

Please direct all questions regarding this Certificate of Analysis to:
Ashton Gibson, Project Manager
Email: Ashton.Gibson@bureauveritas.com
Phone# (905)817-5765

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This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rob Whelan, Laboratory Manager responsible for Newfoundland & Labrador Environmental laboratory operations.

Bureau Veritas 49-55 Elizabeth Ave, Suite 101A, St.John's, NL, Canada A1A 1W9 Tel: 709-754-0203 Toll Free: 888-492-7227 Fax: 709-754-8612 www.bvna.com

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			WGN146		
Sampling Date			2023/06/30		
COC Number			941406-01-01		
	UNITS	Criteria A	TRIP BLANK	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	0.50	8762770
Volatile Organics					
Acetone (2-Propanone)	ug/L	2700	<10	10	8768676
Benzene	ug/L	5.0	<0.17	0.17	8768676
Bromodichloromethane	ug/L	16.0	<0.50	0.50	8768676
Bromoform	ug/L	25.0	<1.0	1.0	8768676
Bromomethane	ug/L	0.89	<0.50	0.50	8768676
Carbon Tetrachloride	ug/L	0.79	<0.20	0.20	8768676
Chlorobenzene	ug/L	30	<0.20	0.20	8768676
Chloroform	ug/L	2.4	<0.20	0.20	8768676
Dibromochloromethane	ug/L	25.0	<0.50	0.50	8768676
1,2-Dichlorobenzene	ug/L	3.0	<0.50	0.50	8768676
1,3-Dichlorobenzene	ug/L	59	<0.50	0.50	8768676
1,4-Dichlorobenzene	ug/L	1.0	<0.50	0.50	8768676
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	1.0	8768676
1,1-Dichloroethane	ug/L	5	<0.20	0.20	8768676
1,2-Dichloroethane	ug/L	1.6	<0.50	0.50	8768676
1,1-Dichloroethylene	ug/L	1.6	<0.20	0.20	8768676
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	8768676
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	8768676
1,2-Dichloropropane	ug/L	5.0	<0.20	0.20	8768676
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	0.30	8768676
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	0.40	8768676
Ethylbenzene	ug/L	2.4	<0.20	0.20	8768676
Ethylene Dibromide	ug/L	0.2	<0.20	0.20	8768676
Hexane	ug/L	51	<1.0	1.0	8768676
Methylene Chloride(Dichloromethane)	ug/L	50	<2.0	2.0	8768676
Methyl Ethyl Ketone (2-Butanone)	ug/L	1800	<10	10	8768676

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria A: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil

Bureau Veritas 49-55 Elizabeth Ave, Suite 101A, St.John's, NL, Canada A1A 1W9 Tel: 709-754-0203 Toll Free: 888-492-7227 Fax: 709-754-8612 www.bvna.com

Bureau Veritas Job #: C3J3318
Report Date: 2023/07/12

DS Consultants Limited
Client Project #: 22-012-101
Site Location: 30 56 NEYAGAWA BLVD, OAKVILLE, ON
Sampler Initials: MAD

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			WGN146		
Sampling Date			2023/06/30		
COC Number			941406-01-01		
	UNITS	**Criteria A**	**TRIP BLANK**	**RDL**	**QC Batch**
Methyl Isobutyl Ketone	ug/L	640	<5.0	5.0	8768676
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	0.50	8768676
Styrene	ug/L	5.4	<0.50	0.50	8768676
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	0.50	8768676
1,1,2,2-Tetrachloroethane	ug/L	1.0	<0.50	0.50	8768676
Tetrachloroethylene	ug/L	1.6	<0.20	0.20	8768676
Toluene	ug/L	24	<0.20	0.20	8768676
1,1,1-Trichloroethane	ug/L	200	<0.20	0.20	8768676
1,1,2-Trichloroethane	ug/L	4.7	<0.50	0.50	8768676
Trichloroethylene	ug/L	1.6	<0.20	0.20	8768676
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	0.50	8768676
Vinyl Chloride	ug/L	0.5	<0.20	0.20	8768676
p+m-Xylene	ug/L	-	<0.20	0.20	8768676
o-Xylene	ug/L	-	<0.20	0.20	8768676
Total Xylenes	ug/L	300	<0.20	0.20	8768676
F1 (C6-C10)	ug/L	750	<25	25	8768676
F1 (C6-C10) - BTEX	ug/L	750	<25	25	8768676
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	-	96		8768676
D4-1,2-Dichloroethane	%	-	96		8768676
D8-Toluene	%	-	100		8768676

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria A: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
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Bureau Veritas Job #: C3J3318
Report Date: 2023/07/12

DS Consultants Limited
Client Project #: 22-012-101
Site Location: 30 56 NEYAGAWA BLVD, OAKVILLE, ON
Sampler Initials: MAD

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID			WGN143			WGN143			WGN144		
Sampling Date			2023/06/30			2023/06/30			2023/06/30		
COC Number			941406-01-01			941406-01-01			941406-01-01		
	UNITS	Criteria A	MW22-9	RDL	QC Batch	MW22-9 Lab-Dup	RDL	QC Batch	MW22-17	RDL	QC Batch
Inorganics											
WAD Cyanide (Free)	ug/L	66	<1	1	8774095				<1	1	8774095
Dissolved Chloride (Cl-)	mg/L	790	**810**	10	8774367				620	5.0	8772828
Metals											
Chromium (VI)	ug/L	25	<0.50	0.50	8768645	<0.50	0.50	8768645	<0.50	0.50	8768645
Mercury (Hg)	ug/L	0.29	<0.10	0.10	8769204				<0.10	0.10	8769204
Dissolved Antimony (Sb)	ug/L	6.0	1.0	0.50	8769184				<0.50	0.50	8769184
Dissolved Arsenic (As)	ug/L	25	2.3	1.0	8769184				<1.0	1.0	8769184
Dissolved Barium (Ba)	ug/L	1000	150	2.0	8769184				180	2.0	8769184
Dissolved Beryllium (Be)	ug/L	4.0	<0.40	0.40	8769184				<0.40	0.40	8769184
Dissolved Boron (B)	ug/L	5000	350	10	8769184				140	10	8769184
Dissolved Cadmium (Cd)	ug/L	2.7	<0.090	0.090	8769184				<0.090	0.090	8769184
Dissolved Chromium (Cr)	ug/L	50	<5.0	5.0	8769184				<5.0	5.0	8769184
Dissolved Cobalt (Co)	ug/L	3.8	<0.50	0.50	8769184				<0.50	0.50	8769184
Dissolved Copper (Cu)	ug/L	87	0.97	0.90	8769184				1.1	0.90	8769184
Dissolved Lead (Pb)	ug/L	10	<0.50	0.50	8769184				<0.50	0.50	8769184
Dissolved Molybdenum (Mo)	ug/L	70	12	0.50	8769184				1.9	0.50	8769184
Dissolved Nickel (Ni)	ug/L	100	1.3	1.0	8769184				1.7	1.0	8769184
Dissolved Selenium (Se)	ug/L	10	<2.0	2.0	8769184				<2.0	2.0	8769184
Dissolved Silver (Ag)	ug/L	1.5	<0.090	0.090	8769184				<0.090	0.090	8769184
Dissolved Sodium (Na)	ug/L	490000	440000	100	8769184				310000	100	8769184
Dissolved Thallium (Tl)	ug/L	2.0	<0.050	0.050	8769184				<0.050	0.050	8769184
Dissolved Uranium (U)	ug/L	20	4.1	0.10	8769184				3.8	0.10	8769184
Dissolved Vanadium (V)	ug/L	6.2	0.54	0.50	8769184				0.58	0.50	8769184
Dissolved Zinc (Zn)	ug/L	1100	<5.0	5.0	8769184				9.0	5.0	8769184

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria A: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil

Bureau Veritas 49-55 Elizabeth Ave, Suite 101A, St.John's, NL, Canada A1A 1W9 Tel: 709-754-0203 Toll Free: 888-492-7227 Fax: 709-754-8612 www.bvna.com

Bureau Veritas Job #: C3J3318
Report Date: 2023/07/12

DS Consultants Limited
Client Project #: 22-012-101
Site Location: 30 56 NEYAGAWA BLVD, OAKVILLE, ON
Sampler Initials: MAD

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID			WGN145			WGN145		
Sampling Date			2023/06/30			2023/06/30		
COC Number			941406-01-01			941406-01-01		
	UNITS	Criteria A	DUP1	RDL	QC Batch	DUP1 Lab-Dup	RDL	QC Batch
Inorganics								
WAD Cyanide (Free)	ug/L	66	<1	1	8774095	<1	1	8774095
Dissolved Chloride (Cl-)	mg/L	790	650	10	8774367			
Metals								
Chromium (VI)	ug/L	25	<0.50	0.50	8768645			
Mercury (Hg)	ug/L	0.29	<0.10	0.10	8769204	<0.10	0.10	8769204
Dissolved Antimony (Sb)	ug/L	6.0	<0.50	0.50	8769184			
Dissolved Arsenic (As)	ug/L	25	<1.0	1.0	8769184			
Dissolved Barium (Ba)	ug/L	1000	190	2.0	8769184			
Dissolved Beryllium (Be)	ug/L	4.0	<0.40	0.40	8769184			
Dissolved Boron (B)	ug/L	5000	130	10	8769184			
Dissolved Cadmium (Cd)	ug/L	2.7	<0.090	0.090	8769184			
Dissolved Chromium (Cr)	ug/L	50	<5.0	5.0	8769184			
Dissolved Cobalt (Co)	ug/L	3.8	<0.50	0.50	8769184			
Dissolved Copper (Cu)	ug/L	87	1.4	0.90	8769184			
Dissolved Lead (Pb)	ug/L	10	<0.50	0.50	8769184			
Dissolved Molybdenum (Mo)	ug/L	70	1.8	0.50	8769184			
Dissolved Nickel (Ni)	ug/L	100	1.9	1.0	8769184			
Dissolved Selenium (Se)	ug/L	10	<2.0	2.0	8769184			
Dissolved Silver (Ag)	ug/L	1.5	<0.090	0.090	8769184			
Dissolved Sodium (Na)	ug/L	490000	300000	100	8769184			
Dissolved Thallium (Tl)	ug/L	2.0	<0.050	0.050	8769184			
Dissolved Uranium (U)	ug/L	20	3.8	0.10	8769184			
Dissolved Vanadium (V)	ug/L	6.2	0.65	0.50	8769184			
Dissolved Zinc (Zn)	ug/L	1100	7.8	5.0	8769184			

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria A: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil

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Bureau Veritas Job #: C3J3318
Report Date: 2023/07/12

DS Consultants Limited
Client Project #: 22-012-101
Site Location: 30 56 NEYAGAWA BLVD, OAKVILLE, ON
Sampler Initials: MAD

O.REG 153 PAHS (WATER)

Bureau Veritas ID			WGN143	WGN144	WGN145		
Sampling Date			2023/06/30	2023/06/30	2023/06/30		
COC Number			941406-01-01	941406-01-01	941406-01-01		
	UNITS	Criteria A	MW22-9	MW22-17	DUP1	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	3.2	<0.071	<0.071	<0.071	0.071	8763625
Polyaromatic Hydrocarbons							
Acenaphthene	ug/L	4.1	<0.050	<0.050	<0.050	0.050	8769342
Acenaphthylene	ug/L	1	<0.050	<0.050	<0.050	0.050	8769342
Anthracene	ug/L	2.4	<0.050	<0.050	<0.050	0.050	8769342
Benzo(a)anthracene	ug/L	1.0	<0.050	<0.050	<0.050	0.050	8769342
Benzo(a)pyrene	ug/L	0.01	<0.0090	<0.0090	<0.0090	0.0090	8769342
Benzo(b/j)fluoranthene	ug/L	0.1	<0.050	<0.050	<0.050	0.050	8769342
Benzo(g,h,i)perylene	ug/L	0.2	<0.050	<0.050	<0.050	0.050	8769342
Benzo(k)fluoranthene	ug/L	0.1	<0.050	<0.050	<0.050	0.050	8769342
Chrysene	ug/L	0.1	<0.050	<0.050	<0.050	0.050	8769342
Dibenzo(a,h)anthracene	ug/L	0.2	<0.050	<0.050	<0.050	0.050	8769342
Fluoranthene	ug/L	0.41	<0.050	<0.050	<0.050	0.050	8769342
Fluorene	ug/L	120	<0.050	<0.050	<0.050	0.050	8769342
Indeno(1,2,3-cd)pyrene	ug/L	0.2	<0.050	<0.050	<0.050	0.050	8769342
1-Methylnaphthalene	ug/L	3.2	<0.050	<0.050	<0.050	0.050	8769342
2-Methylnaphthalene	ug/L	3.2	<0.050	<0.050	<0.050	0.050	8769342
Naphthalene	ug/L	11	<0.050	<0.050	<0.050	0.050	8769342
Phenanthrene	ug/L	1	<0.030	<0.030	<0.030	0.030	8769342
Pyrene	ug/L	4.1	<0.050	<0.050	<0.050	0.050	8769342
Surrogate Recovery (%)							
D10-Anthracene	%	-	117	118	117		8769342
D14-Terphenyl (FS)	%	-	113	111	108		8769342
D8-Acenaphthylene	%	-	103	109	107		8769342

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria A: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil

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

Bureau Veritas ID			WGN143	WGN144	WGN145		
Sampling Date			2023/06/30	2023/06/30	2023/06/30		
COC Number			941406-01-01	941406-01-01	941406-01-01		
	UNITS	Criteria A	MW22-9	MW22-17	DUP1	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	<0.50	<0.50	0.50	8762770
Volatile Organics							
Acetone (2-Propanone)	ug/L	2700	<10	<10	<10	10	8768676
Benzene	ug/L	5.0	<0.17	<0.17	<0.17	0.17	8768676
Bromodichloromethane	ug/L	16.0	<0.50	<0.50	<0.50	0.50	8768676
Bromoform	ug/L	25.0	<1.0	<1.0	<1.0	1.0	8768676
Bromomethane	ug/L	0.89	<0.50	<0.50	<0.50	0.50	8768676
Carbon Tetrachloride	ug/L	0.79	<0.20	<0.20	<0.20	0.20	8768676
Chlorobenzene	ug/L	30	<0.20	<0.20	<0.20	0.20	8768676
Chloroform	ug/L	2.4	1.3	0.66	0.62	0.20	8768676
Dibromochloromethane	ug/L	25.0	<0.50	<0.50	<0.50	0.50	8768676
1,2-Dichlorobenzene	ug/L	3.0	<0.50	<0.50	<0.50	0.50	8768676
1,3-Dichlorobenzene	ug/L	59	<0.50	<0.50	<0.50	0.50	8768676
1,4-Dichlorobenzene	ug/L	1.0	<0.50	<0.50	<0.50	0.50	8768676
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	<1.0	<1.0	1.0	8768676
1,1-Dichloroethane	ug/L	5	<0.20	<0.20	<0.20	0.20	8768676
1,2-Dichloroethane	ug/L	1.6	<0.50	<0.50	<0.50	0.50	8768676
1,1-Dichloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	0.20	8768676
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	0.50	8768676
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	0.50	8768676
1,2-Dichloropropane	ug/L	5.0	<0.20	<0.20	<0.20	0.20	8768676
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	<0.30	<0.30	0.30	8768676
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	<0.40	<0.40	0.40	8768676
Ethylbenzene	ug/L	2.4	<0.20	<0.20	<0.20	0.20	8768676
Ethylene Dibromide	ug/L	0.2	<0.20	<0.20	<0.20	0.20	8768676
Hexane	ug/L	51	<1.0	<1.0	<1.0	1.0	8768676
Methylene Chloride(Dichloromethane)	ug/L	50	<2.0	<2.0	<2.0	2.0	8768676
Methyl Ethyl Ketone (2-Butanone)	ug/L	1800	<10	<10	<10	10	8768676
Methyl Isobutyl Ketone	ug/L	640	<5.0	<5.0	<5.0	5.0	8768676

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria A: Ontario Reg. 153/04 (Amended April 15, 2011)
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Bureau Veritas Job #: C3J3318
Report Date: 2023/07/12

DS Consultants Limited
Client Project #: 22-012-101
Site Location: 30 56 NEYAGAWA BLVD, OAKVILLE, ON
Sampler Initials: MAD

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

Bureau Veritas ID			WGN143	WGN144	WGN145		
Sampling Date			2023/06/30	2023/06/30	2023/06/30		
COC Number			941406-01-01	941406-01-01	941406-01-01		
	UNITS	Criteria A	MW22-9	MW22-17	DUP1	RDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	<0.50	<0.50	0.50	8768676
Styrene	ug/L	5.4	<0.50	<0.50	<0.50	0.50	8768676
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	<0.50	<0.50	0.50	8768676
1,1,2,2-Tetrachloroethane	ug/L	1.0	<0.50	<0.50	<0.50	0.50	8768676
Tetrachloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	0.20	8768676
Toluene	ug/L	24	<0.20	<0.20	<0.20	0.20	8768676
1,1,1-Trichloroethane	ug/L	200	<0.20	<0.20	<0.20	0.20	8768676
1,1,2-Trichloroethane	ug/L	4.7	<0.50	<0.50	<0.50	0.50	8768676
Trichloroethylene	ug/L	1.6	<0.20	<0.20	<0.20	0.20	8768676
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	<0.50	<0.50	0.50	8768676
Vinyl Chloride	ug/L	0.5	<0.20	<0.20	<0.20	0.20	8768676
p+m-Xylene	ug/L	-	<0.20	<0.20	<0.20	0.20	8768676
o-Xylene	ug/L	-	<0.20	<0.20	<0.20	0.20	8768676
Total Xylenes	ug/L	300	<0.20	<0.20	<0.20	0.20	8768676
F1 (C6-C10)	ug/L	750	<25	<25	<25	25	8768676
F1 (C6-C10) - BTEX	ug/L	750	<25	<25	<25	25	8768676
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	<100	<100	100	8769343
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	<200	<200	200	8769343
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	<200	<200	200	8769343
Reached Baseline at C50	ug/L	-	Yes	Yes	Yes		8769343
Surrogate Recovery (%)							
o-Terphenyl	%	-	105	101	103		8769343
4-Bromofluorobenzene	%	-	96	97	96		8768676
D4-1,2-Dichloroethane	%	-	95	95	95		8768676
D8-Toluene	%	-	100	100	100		8768676

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria A: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition
Potable Ground Water- All Types of Property Uses - Coarse Textured Soil

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TEST SUMMARY

Bureau Veritas ID: WGN143 **Collected:** 2023/06/30
Sample ID: MW22-9 **Shipped:**
Matrix: Water **Received:** 2023/06/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8763625	N/A	2023/07/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	8762770	N/A	2023/07/07	Automated Statchk
Chloride by Automated Colourimetry	KONE	8774367	N/A	2023/07/07	Massarat Jan
Chromium (VI) in Water	IC	8768645	N/A	2023/07/05	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8774095	N/A	2023/07/07	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8769343	2023/07/05	2023/07/06	Emir Danisman
Mercury	CV/AA	8769204	2023/07/05	2023/07/05	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8769184	N/A	2023/07/11	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8769342	2023/07/05	2023/07/06	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8768676	N/A	2023/07/06	Dina Wang

Bureau Veritas ID: WGN143 Dup **Collected:** 2023/06/30
Sample ID: MW22-9 **Shipped:**
Matrix: Water **Received:** 2023/06/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	8768645	N/A	2023/07/05	Theodora Luck

Bureau Veritas ID: WGN144 **Collected:** 2023/06/30
Sample ID: MW22-17 **Shipped:**
Matrix: Water **Received:** 2023/06/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8763625	N/A	2023/07/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	8762770	N/A	2023/07/07	Automated Statchk
Chloride by Automated Colourimetry	KONE	8772828	N/A	2023/07/07	Alina Dobreanu
Chromium (VI) in Water	IC	8768645	N/A	2023/07/05	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8774095	N/A	2023/07/07	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8769343	2023/07/05	2023/07/06	Emir Danisman
Mercury	CV/AA	8769204	2023/07/05	2023/07/05	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8769184	N/A	2023/07/11	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8769342	2023/07/05	2023/07/06	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8768676	N/A	2023/07/06	Dina Wang

Bureau Veritas ID: WGN145 **Collected:** 2023/06/30
Sample ID: DUP1 **Shipped:**
Matrix: Water **Received:** 2023/06/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8763625	N/A	2023/07/10	Automated Statchk
1,3-Dichloropropene Sum	CALC	8762770	N/A	2023/07/07	Automated Statchk
Chloride by Automated Colourimetry	KONE	8774367	N/A	2023/07/07	Massarat Jan
Chromium (VI) in Water	IC	8768645	N/A	2023/07/05	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	8774095	N/A	2023/07/07	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8769343	2023/07/05	2023/07/06	Emir Danisman

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Bureau Veritas Job #: C3J3318
Report Date: 2023/07/12

DS Consultants Limited
Client Project #: 22-012-101
Site Location: 30 56 NEYAGAWA BLVD, OAKVILLE, ON
Sampler Initials: MAD

TEST SUMMARY

Bureau Veritas ID: WGN145
Sample ID: DUP1
Matrix: Water

Collected: 2023/06/30
Shipped:
Received: 2023/06/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury	CV/AA	8769204	2023/07/05	2023/07/05	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8769184	N/A	2023/07/11	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8769342	2023/07/05	2023/07/06	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8768676	N/A	2023/07/06	Dina Wang

Bureau Veritas ID: WGN145 Dup
Sample ID: DUP1
Matrix: Water

Collected: 2023/06/30
Shipped:
Received: 2023/06/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	SKAL/CN	8774095	N/A	2023/07/07	Prgya Panchal
Mercury	CV/AA	8769204	2023/07/05	2023/07/05	Japneet Gill

Bureau Veritas ID: WGN146
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2023/06/30
Shipped:
Received: 2023/06/30

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8762770	N/A	2023/07/07	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8768676	N/A	2023/07/06	Dina Wang

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GENERAL COMMENTS

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

Package 1	4.7°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8768676	4-Bromofluorobenzene	2023/07/06	97	70 - 130	98	70 - 130	95	%		
8768676	D4-1,2-Dichloroethane	2023/07/06	96	70 - 130	95	70 - 130	94	%		
8768676	D8-Toluene	2023/07/06	104	70 - 130	105	70 - 130	101	%		
8769342	D10-Anthracene	2023/07/05	118	50 - 130	112	50 - 130	121	%		
8769342	D14-Terphenyl (FS)	2023/07/05	120	50 - 130	114	50 - 130	120	%		
8769342	D8-Acenaphthylene	2023/07/05	110	50 - 130	107	50 - 130	103	%		
8769343	o-Terphenyl	2023/07/06	104	60 - 130	104	60 - 130	101	%		
8768645	Chromium (VI)	2023/07/05	104	80 - 120	104	80 - 120	<0.50	ug/L	NC	20
8768676	1,1,1,2-Tetrachloroethane	2023/07/06	97	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8768676	1,1,1-Trichloroethane	2023/07/06	93	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
8768676	1,1,2,2-Tetrachloroethane	2023/07/06	99	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8768676	1,1,2-Trichloroethane	2023/07/06	100	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
8768676	1,1-Dichloroethane	2023/07/06	95	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
8768676	1,1-Dichloroethylene	2023/07/06	95	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
8768676	1,2-Dichlorobenzene	2023/07/06	100	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
8768676	1,2-Dichloroethane	2023/07/06	90	70 - 130	85	70 - 130	<0.50	ug/L	NC	30
8768676	1,2-Dichloropropane	2023/07/06	98	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
8768676	1,3-Dichlorobenzene	2023/07/06	99	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
8768676	1,4-Dichlorobenzene	2023/07/06	117	70 - 130	115	70 - 130	<0.50	ug/L	NC	30
8768676	Acetone (2-Propanone)	2023/07/06	99	60 - 140	92	60 - 140	<10	ug/L	NC	30
8768676	Benzene	2023/07/06	96	70 - 130	92	70 - 130	<0.17	ug/L	NC	30
8768676	Bromodichloromethane	2023/07/06	93	70 - 130	88	70 - 130	<0.50	ug/L	NC	30
8768676	Bromoform	2023/07/06	90	70 - 130	86	70 - 130	<1.0	ug/L	NC	30
8768676	Bromomethane	2023/07/06	94	60 - 140	93	60 - 140	<0.50	ug/L	NC	30
8768676	Carbon Tetrachloride	2023/07/06	91	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
8768676	Chlorobenzene	2023/07/06	100	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
8768676	Chloroform	2023/07/06	95	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
8768676	cis-1,2-Dichloroethylene	2023/07/06	99	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
8768676	cis-1,3-Dichloropropene	2023/07/06	93	70 - 130	87	70 - 130	<0.30	ug/L	NC	30
8768676	Dibromochloromethane	2023/07/06	93	70 - 130	88	70 - 130	<0.50	ug/L	NC	30
8768676	Dichlorodifluoromethane (FREON 12)	2023/07/06	96	60 - 140	90	60 - 140	<1.0	ug/L	NC	30
8768676	Ethylbenzene	2023/07/06	97	70 - 130	95	70 - 130	<0.20	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8768676	Ethylene Dibromide	2023/07/06	96	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
8768676	F1 (C6-C10) - BTEX	2023/07/06					<25	ug/L	NC	30
8768676	F1 (C6-C10)	2023/07/06	91	60 - 140	92	60 - 140	<25	ug/L	NC	30
8768676	Hexane	2023/07/06	99	70 - 130	97	70 - 130	<1.0	ug/L	NC	30
8768676	Methyl Ethyl Ketone (2-Butanone)	2023/07/06	91	60 - 140	85	60 - 140	<10	ug/L	NC	30
8768676	Methyl Isobutyl Ketone	2023/07/06	87	70 - 130	83	70 - 130	<5.0	ug/L	NC	30
8768676	Methyl t-butyl ether (MTBE)	2023/07/06	90	70 - 130	87	70 - 130	<0.50	ug/L	NC	30
8768676	Methylene Chloride(Dichloromethane)	2023/07/06	101	70 - 130	97	70 - 130	<2.0	ug/L	NC	30
8768676	o-Xylene	2023/07/06	85	70 - 130	83	70 - 130	<0.20	ug/L	NC	30
8768676	p+m-Xylene	2023/07/06	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8768676	Styrene	2023/07/06	95	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8768676	Tetrachloroethylene	2023/07/06	90	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
8768676	Toluene	2023/07/06	100	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
8768676	Total Xylenes	2023/07/06					<0.20	ug/L	NC	30
8768676	trans-1,2-Dichloroethylene	2023/07/06	99	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
8768676	trans-1,3-Dichloropropene	2023/07/06	98	70 - 130	94	70 - 130	<0.40	ug/L	NC	30
8768676	Trichloroethylene	2023/07/06	99	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
8768676	Trichlorofluoromethane (FREON 11)	2023/07/06	92	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
8768676	Vinyl Chloride	2023/07/06	96	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
8769184	Dissolved Antimony (Sb)	2023/07/12	109	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
8769184	Dissolved Arsenic (As)	2023/07/12	99	80 - 120	97	80 - 120	<1.0	ug/L	6.8	20
8769184	Dissolved Barium (Ba)	2023/07/12	101	80 - 120	98	80 - 120	<2.0	ug/L	2.6	20
8769184	Dissolved Beryllium (Be)	2023/07/12	100	80 - 120	98	80 - 120	<0.40	ug/L	NC	20
8769184	Dissolved Boron (B)	2023/07/12	96	80 - 120	93	80 - 120	<10	ug/L	NC	20
8769184	Dissolved Cadmium (Cd)	2023/07/12	102	80 - 120	96	80 - 120	<0.090	ug/L	NC	20
8769184	Dissolved Chromium (Cr)	2023/07/12	96	80 - 120	94	80 - 120	<5.0	ug/L	NC	20
8769184	Dissolved Cobalt (Co)	2023/07/12	95	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
8769184	Dissolved Copper (Cu)	2023/07/12	98	80 - 120	95	80 - 120	<0.90	ug/L	NC	20
8769184	Dissolved Lead (Pb)	2023/07/12	100	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
8769184	Dissolved Molybdenum (Mo)	2023/07/12	106	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8769184	Dissolved Nickel (Ni)	2023/07/12	95	80 - 120	93	80 - 120	<1.0	ug/L	NC	20
8769184	Dissolved Selenium (Se)	2023/07/12	99	80 - 120	96	80 - 120	<2.0	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8769184	Dissolved Silver (Ag)	2023/07/12	100	80 - 120	98	80 - 120	<0.090	ug/L	NC	20
8769184	Dissolved Sodium (Na)	2023/07/12	97	80 - 120	95	80 - 120	<100	ug/L	2.9	20
8769184	Dissolved Thallium (Tl)	2023/07/12	102	80 - 120	98	80 - 120	<0.050	ug/L	NC	20
8769184	Dissolved Uranium (U)	2023/07/12	102	80 - 120	97	80 - 120	<0.10	ug/L	18	20
8769184	Dissolved Vanadium (V)	2023/07/12	98	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
8769184	Dissolved Zinc (Zn)	2023/07/12	95	80 - 120	94	80 - 120	<5.0	ug/L	NC	20
8769204	Mercury (Hg)	2023/07/05	102	75 - 125	105	80 - 120	<0.10	ug/L	NC	20
8769342	1-Methylnaphthalene	2023/07/05	113	50 - 130	110	50 - 130	<0.050	ug/L	NC	30
8769342	2-Methylnaphthalene	2023/07/05	113	50 - 130	110	50 - 130	<0.050	ug/L	NC	30
8769342	Acenaphthene	2023/07/05	112	50 - 130	107	50 - 130	<0.050	ug/L	NC	30
8769342	Acenaphthylene	2023/07/05	113	50 - 130	108	50 - 130	<0.050	ug/L	NC	30
8769342	Anthracene	2023/07/05	116	50 - 130	111	50 - 130	<0.050	ug/L	NC	30
8769342	Benzo(a)anthracene	2023/07/05	120	50 - 130	112	50 - 130	<0.050	ug/L	NC	30
8769342	Benzo(a)pyrene	2023/07/05	115	50 - 130	107	50 - 130	<0.0090	ug/L	NC	30
8769342	Benzo(b/j)fluoranthene	2023/07/05	112	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8769342	Benzo(g,h,i)perylene	2023/07/05	111	50 - 130	103	50 - 130	<0.050	ug/L	NC	30
8769342	Benzo(k)fluoranthene	2023/07/05	116	50 - 130	109	50 - 130	<0.050	ug/L	NC	30
8769342	Chrysene	2023/07/05	115	50 - 130	108	50 - 130	<0.050	ug/L	NC	30
8769342	Dibenzo(a,h)anthracene	2023/07/05	127	50 - 130	114	50 - 130	<0.050	ug/L	NC	30
8769342	Fluoranthene	2023/07/05	112	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
8769342	Fluorene	2023/07/05	111	50 - 130	107	50 - 130	<0.050	ug/L	NC	30
8769342	Indeno(1,2,3-cd)pyrene	2023/07/05	113	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
8769342	Naphthalene	2023/07/05	115	50 - 130	119	50 - 130	<0.050	ug/L	NC	30
8769342	Phenanthrene	2023/07/05	114	50 - 130	108	50 - 130	<0.030	ug/L	NC	30
8769342	Pyrene	2023/07/05	113	50 - 130	107	50 - 130	<0.050	ug/L	NC	30
8769343	F2 (C10-C16 Hydrocarbons)	2023/07/06	101	60 - 130	107	60 - 130	<100	ug/L	NC	30
8769343	F3 (C16-C34 Hydrocarbons)	2023/07/06	100	60 - 130	109	60 - 130	<200	ug/L	NC	30
8769343	F4 (C34-C50 Hydrocarbons)	2023/07/06	102	60 - 130	109	60 - 130	<200	ug/L	NC	30
8772828	Dissolved Chloride (Cl-)	2023/07/07	NC	80 - 120	92	80 - 120	<1.0	mg/L	0.61	20
8774095	WAD Cyanide (Free)	2023/07/07	94	80 - 120	92	80 - 120	<1	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8774367	Dissolved Chloride (Cl-)	2023/07/07	90	80 - 120	97	80 - 120	<1.0	mg/L	NC	20

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

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

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

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

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

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

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

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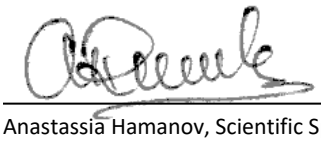
Bureau Veritas Job #: C3J3318
Report Date: 2023/07/12

DS Consultants Limited
Client Project #: 22-012-101
Site Location: 30 56 NEYAGAWA BLVD, OAKVILLE, ON
Sampler Initials: MAD

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.

Bureau Veritas 49-55 Elizabeth Ave, Suite 101A, St.John's, NL, Canada A1A 1W9 Tel: 709-754-0203 Toll Free: 888-492-7227 Fax: 709-754-8612 www.bvna.com

Bureau Veritas Job #: C3J3318
Report Date: 2023/07/12

DS Consultants Limited
Client Project #: 22-012-101
Site Location: 30 56 NEYAGAWA BLVD, OAKVILLE, ON
Sampler Initials: MAD

Exceedance Summary Table – Reg153/04 T2-GW-C

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
MW22-9	WGN143-01	Dissolved Chloride (Cl-)	790	810	10	mg/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

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C3J3318

Affix Job Label Here

Presence of Visible Particulate/Sediment

Maxxam Analytics
CAM FCD-01013/5
Page 1 of 1

When there is >1cm of visible particulate/sediment, the amount will be recorded in the field below

Bottle Types

			Inorganics					Organics											Hydrocarbons							Volatiles				Other
	Sample ID	All	CrVI	CN	General	Hg	Metals (Diss.)	Organic 1 of 2	Organic 2 of 2	PCB 1 of 2	PCB 2 of 2	Pest/ Herb 1 of 2	Pest/ Herb 2 of 2	SVOC/ ABN 1 of 2	SVOC/ ABN 2 of 2	PAH 1 of 2	PAH 2 of 2	Dioxin /Furan	F1 Vial 1	F1 Vial 2	F1 Vial 3	F1 Vial 4	F2-F4 1 of 2	F2-F4 2 of 2	F4G	VOC Vial 1	VOC Vial 2	VOC Vial 3	VOC Vial 4	
1	MW22-9	TS																											
2	MW22-17	TS																											
3	Dup-1	TS																											
4																													
5																													
6																													
7																													
8																													
9																													
10																													

Comments: Except Chromium, Metals & Mercury

Legend:	
P	Suspended Particulate
TS	Trace Settled Sediment (just covers bottom of container or less)
S	Sediment greater than (>) Trace, but less than (<) 1 cm

Recorded By: (signature/print) [illegible] TAGGED BAR

2023/06/30.

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

Page 1 of 1

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#32616 DS Consultants Limited	Company Name:	DS consultants Ltd	Quotation #:	C25641	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Rick Fioravati	P.O. #:			941406
Address:	6221 Highway 7, Unit 16 Vaughan ON L4H 0K8	Address:	RFioravanti@DSconsultants.ca	Project:	22-012-101	Oakville, ON	Project Manager:
Tel:	(905) 264-9393 Fax:	Tel:	Fax:	Project Name:	3056 Neyagawa Blvd,	COC #: C#941406-01-01	Ashton Gibson
Email:	accounting@dsconsultants.ca;bindu.goel@dsconsultant	Email:	Fanwar@DSconsultants.ca	Site #:			
				Sampled By:	Madineh		

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

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

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

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 VOCs by HS & F1-F4	O.Reg 153 PAHs	O.Reg 153 Metals & Inorganics Pkg (Wtr)	# of Bottles	Comments
1	MW22-9		2023/06/30	PM	GW		X	X	X	9	
2	MW22-17						X	X	X	9	
3	Dup1						X	X	X	9	
4	Trip Blank						X			2	
5											
6											
7											
8											
9											
10											

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

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

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

30-Jun-23 12:44
Ashton Gibson
C3J3318
JDK ENV-936

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
Madineh Ghazili	2023/06/30	PM	ANMOL	2023/06/30	12:44		Time Sensitive	Temperature (°C) on Recei 5/5/4	Custody Seal Present / Intact	Yes ✓ ✓	No

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

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

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

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

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Appendix D

Phase Two Conceptual Site Model

The Phase Two Conceptual Site Model (CSM) has been prepared for the Site located at 3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, Ontario. This Phase Two CSM has been prepared based on the following environmental site assessment reports:

- *"Phase One Environmental Site Assessment, "3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, Ontario"* dated April 18, 2024, prepared for NEATT Sixteen Mile Creek Inc., prepared by DS Consultants Ltd. (DS).
- *"Phase Two Environmental Site Assessment, "3056 Neyagawa Boulevard & 1039 Dundas Street West, Oakville, Ontario"* dated April 29, 2024, prepared for NEATT Sixteen Mile Creek Inc., prepared by DS Consultants Ltd.

The Phase Two CSM is comprised of the following figures and text:

Figure 1 – Site Location Plan
Figure 2 – Phase One Property Site Plan
Figure 3 – Phase One Study Area
Figure 4 – PCAs within Phase One Study Area
Figure 5 – Borehole/Monitoring Well Location Plan with APECs
Figure 5A – Geological Cross Section A-A'
Figure 6 – Groundwater Elevation Contours and Flow Direction
Figure 7A – Soil Characterization – Metals & Hydride Forming Metals
Figure 7B – Soil Characterization – ORPs
Figure 7C – Soil Characterization – PHCs
Figure 7D – Soil Characterization – VOCs
Figure 7E – Soil Characterization – PAHs
Figure 7F – Soil Characterization – OCPs
Figure 8A – Groundwater Characterization – Metals & Hydride Forming Metals
Figure 8B – Groundwater Characterization – ORPs
Figure 8C – Groundwater Characterization – PHCs
Figure 8D – Groundwater Characterization – VOCs
Figure 8E – Groundwater Characterization – PAHs
Figure 9 – Contaminant Transport Diagram

The RSC Property is an irregularly shaped 8.12-hectare (20.0 acre) parcel of land situated within a mixed residential, community and commercial neighbourhood in the Town of

Oakville, Ontario. The RSC Property is located approximately 110 m northwest of the intersection of Neyagawa Boulevard and Dundas Street West.

The Site is currently developed with eight structures. 3056 Neyagawa Boulevard was occupied by residential tenants, including a 320 m^2 two-storey rectangular-shaped residential dwelling (Site Building A) with one level of basement and attached two-car garage located within the northeastern portion of the Site. A detached 280 m^2 residential double car garage (Site Building B) located along the eastern portion of the Site. One canvas shed (Shed 1) approximately 10 m^2 located along the northern portion of the Site. Multiple (more than 10) shipping containers were present adjacent to the gravel driveway within the northeastern, western and central portions of the Site. The southwestern portion of the Site was comprised of agricultural land.

1039 Dundas Street West was occupied by St. Peter & Paul Serbian Orthodox Church and comprised of a 120 m^2 one-storey rectangular-shaped common area (Site Building C) with an attached 30 m^2 storage shed (Shed 3). South of Shed 3 is a 650 m^2 irregularly shaped building (Site Building D) which is used as an event hall and is outfitted with a commercial kitchen. A chapel is present on the central portion of the Site (Site Building E), occupying an approximate footprint of 100 m^2. An enclosed 40 m^2 gazebo is present within the northern portion of the Site. An asphalt paved fenced area with an abandoned trailer and several cars is present within the southwestern portion of the Site. A Telus telecommunication tower is present on-Site adjacent to the northern Property boundary.

A gravel paved driveway traverses through the Site in a north-south orientation connecting Site Buildings C, D and E to Dundas Street West. The remaining balance of the Site consisted of landscaped grass, trees and shrubbery. A small, paved playground is present on the south-central portion of the Site adjacent to the gravel driveway.

The following issues of potential environmental concern (PCAs) were identified on the RSC Property:

- It is inferred that de-icing agents have been utilized upon the driveways present within the RSC Property for the purpose of pedestrian and vehicular safety.
- Miscellaneous debris, refuse and boats appear to have been stored at the Site for extended periods of time within the western extent of the 3056 Neyagawa Boulevard in the vicinity of Shed 1.
- Based on historic imagery and the Site Reconnaissance, storage of miscellaneous debris and refuse appears to be stored within the eastern portion of the Site.
- A shed appears to have been formerly located in the southern portion of the Site (Former Shed 2) from at least 2004 to 2007. The structure was subsequently

demolished and fill material of unknown origin may have been utilized for grading/infilling at this location.

- Based on historic satellite imagery, areas within the western portion of the Site immediately north of the current agricultural field appears to have been utilized for the storage of miscellaneous debris and refuse.
- Based on historic satellite imagery, an area within the southwestern portion of the Site immediately south of the current agricultural field appears to have been utilized for the storage of miscellaneous debris and refuse.
- Based on photographs provided by AEL (2021) it is inferred that light vehicle servicing has likely taken place within the residential garage.
- AEL (2021) reported a gravel material stockpile containing soil of unknown origin located to the north/northeast of the residential garage.
- According to the Phase One Interview provided by AEL (2021) the previous property owner indicated that fill material of unknown origin may have been placed on the western portion of the property.
- DS geotechnical investigation (2023) encountered fill material extending to depths ranging from 0.8 to 1.5 metres below ground surface (mbgs) across majority of the Site.
- Based on historic aerial imagery a residential dwelling (Former Site Building F) was present on the southwestern portion of the Property, along Dundas Street West, between 1934 to 1965. The structure was subsequently demolished and fill material of unknown origin may have been utilized for grading/infilling at this location.
- In the 1934 aerial imagery an orchard can be observed on the southwest portion of the RSC Property.
- Based on historic aerial imagery a residential dwelling (Former Site Building G) was present on the southern portion of the Property between 1985 to 2004. The structure was subsequently demolished and fill material of unknown origin may have been utilized for grading/infilling at this location.

The neighboring properties within 250 m of the Site have been used for residential and commercial purposes since 1985. By 2013 a community center was developed on the north adjacent property, and was registered for waste of alkaline solutions - other metals and non-metals, paint/pigment/coating residues, oils & lubricants, inorganic and organic laboratory chemicals, waste of light fuels and organic acids in 2015 and 2021.

Following completion of the Phase One ESA, a Phase Two ESA was recommended in order to investigate the Areas of Potential Environmental Concern (APECs) identified.

The Phase Two ESA involved the advancement of eight (8) test pits (TP1 to TP8), which were completed on January 10, 2022. The test pits were advanced to a maximum depth of 3.5 metres below ground surface (mbgs) under the supervision of DS personnel. Additionally, twenty-one (21) boreholes (BH23-1 to BH23-21) were advanced on the Phase Two Property, in conjunction with a preliminary geotechnical and hydrogeological investigation, between June 5, 2023 and June 25, 2023. The boreholes were advanced to depths ranging from 1.4 to 18.8 mbgs. Ten (10) boreholes were instrumented with monitoring wells (BH23-1 to BH23-9 and BH23-17) and screened at depths ranging from 3.1 to 18.4 mbgs. In addition, existing monitoring wells (BH1 to BH5) previously installed as part of a historic geotechnical investigation, were utilized to monitor groundwater levels.

Soil samples were submitted for chemical analysis as follows:

- Twenty-two (22) soil samples were submitted for analysis of Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, pH, and SAR. Three (3) soil samples were also submitted for analysis of pH only;
- Eleven (11) soil samples were submitted for analysis of Petroleum Hydrocarbons (PHCs) and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX);
- Eleven (11) soil samples were submitted for analysis of Volatile Organic Compounds (VOCs);
- Eighteen (18) soil samples were submitted for analysis of Polyaromatic Hydrocarbons (PAHs);
- Eleven (11) soil samples were submitted for analysis of Organochlorine Pesticides (OCPs).

Groundwater samples were obtained from the five (5) monitoring wells (BH1, BH2, BH4, BH23-9 and BH23-17) and submitted for analysis of metals, As, Sb, Se, CN-, Cr (VI), Hg, Na, Cl, PHCs, VOCs and PAHs.

The soil and groundwater analytical results were compared to the “Table 2: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Residential/ Parkland/ Institutional Use with coarse textured soils” provided in the MECP document entitled, “Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act” dated April 15, 2011 (Table 2 RPI SCS) for coarse-textured soils.

All of the soil samples analysed were found to meet the Table 2 SCS.

The result of the groundwater chemical analysis indicated that there was an elevated concentration of chloride present in groundwater collected from monitoring wells BH1 and BH23-9. Both boreholes are located adjacent to driveways/parking areas on the Property and have been subject to the application of de-icing agents during winter. Per Section 49.1 (1) of O.Reg. 153/04 (as amended), "*If an applicable site condition standard is exceeded at a property solely because of one of the following reasons, the applicable site condition standard is deemed not to be exceeded for the purpose of Part XV.1 of the Act": "…that a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both*". Based on this provision, the site condition standards for chloride in groundwater is deemed not to be exceeded. As such all groundwater samples analyzed were found to meet the Table 2 SCS.

I. Description and Assessment of:

A. Areas where potentially contaminating activity has occurred

A total of fifteen (15) PCAs were identified to be contributing to APECs on-Site. A summary of the PCAs considered to be contributing to APECs on the Phase Two Property is provided in the table below.

Table 1-1: Summary of PCAs Contributing to APECs

PCA Item.	PCA Description (Per. Table 2, Schedule D of O.Reg. 153/04)	Description	Rationale
1	#30: Importation of Fill Material of Unknown Origin	AEL (2021) reported a gravel material stockpile containing soil of unknown origin located to the north/northeast of the residential garage.	PCA is on-Site
2	#30: Importation of Fill Material of Unknown Origin	According to the Phase One Interview provided by AEL the current property owner indicated that fill material of unknown origin may have been placed on the western portion of 3056 Neyagawa Boulevard.	PCA is on-Site
5	#30: Importation of Fill Material of Unknown Origin	DS geotechnical investigation (2023) encountered fill material extending to depths ranging from 0.8 to 1.5 mbgs across the entire Site.	PCA is on-Site
6	#58: Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners.	3070 – 3090 Neyagawa Blvd, the north adjacent property, had one (1) record in the Ontario Regulation 347 Waste Generators database in 2015 and 2021 for alkaline solutions – other metals and non-metals	PCA is immediately upgradient of the Site.

PCA Item.	PCA Description (Per. Table 2, Schedule D of O.Reg. 153/04)	Description	Rationale
		paint/pigment/coating residues, oils & lubricants, inorganic and organic laboratory chemicals, light fuels and organic acids.	
8	#40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	In the 1934 aerial imagery an orchard can be observed on the southwest portion of the Phase One Property.	PCA is on-Site
11	#30: Importation of Fill Material of Unknown Origin	In the 1965 aerial imagery the residential dwelling (Former Site Building F) on the southwestern portion of the Property, along Dundas Street West, appears to have been demolished.	PCA is on-Site
12	#30: Importation of Fill Material of Unknown Origin	The residential dwelling (Former Site Building G) on the southern portion of the Property has been demolished.	PCA is on-Site
13	#N/S: Storage of miscellaneous debris, refuse and boats	Miscellaneous debris, refuse and boats appears to have been stored at the Site for extended periods of time within the western extent of the Property in the vicinity of Shed 1.	PCA is on-Site
14	#30: Importation of Fill Material of Unknown Origin	A shed appears to have been formerly located in the southern portion of the Site (Former Shed 2) from at least 2004 to 2007. The structure was subsequently demolished and fill material of unknown origin may have been utilized for grading/infilling at this location.	PCA is on-Site
15	#N/S: Storage of miscellaneous debris and refuse	Based on historic imagery and the Site Reconnaissance, storage of miscellaneous debris and refuse appears to have taken place within the eastern portion of the Site.	PCA is on-Site
16	#N/S: Storage of miscellaneous debris and refuse	Based on historic satellite imagery, areas within the western portion of 3056 Neyagawa Boulevard, immediately north of the current agricultural field appears to have been utilized for the storage of miscellaneous debris and refuse.	PCA is on-Site

PCA Item.	PCA Description (Per. Table 2, Schedule D of O.Reg. 153/04)	Description	Rationale
17	#N/S: Storage of miscellaneous debris and refuse	Based on historic satellite imagery, an area within the southern portion of the Site immediately south of the current agricultural field appears to have been utilized for the storage of miscellaneous debris and refuse.	PCA is on-Site
18	#N/S: Application of De-Icing Agents	It is inferred that de-icing agents have been utilized upon the driveways present within the eastern portion of the Property for the purpose of pedestrian and vehicular safety.	PCA is on-Site
19	#N/S: Application of De-Icing Agents	It is inferred that de-icing agents have been utilized upon the driveways present within the western portion of the Property for the purpose of pedestrian and vehicular safety.	PCA is on-Site
20	#27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	Based on photographs provided by AEL it is inferred that light vehicle servicing has likely taken place within the residential garage.	PCA is on-Site

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

B. Areas of potential environmental concern

Fifteen (15) APECs were identified to be present on the RSC Property through the completion of the Phase One ESA. A summary of the APECs identified, and the associated COPCs is provided in the table below.

Table 1-2: Summary of APECs identified on the RSC Property

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-1A	Northeastern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-1	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1B	Central portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-2	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1C	Entire Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-5	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1D	Vicinity of former Site Building F, located in the	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-11	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	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)
	southwestern portion of the Site				
APEC-1E	Vicinity of former Site Building G, located in the southern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-12	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-1F	Vicinity of former Shed 2, located in the southern portion of the Site	#30: Importation of Fill Material of Unknown Origin	On-Site PCA-14	Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-2	Northern portion of the Site	#58: Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners.	Off-Site PCA-6	PHCs, VOCs, BTEX, Metals, As, Sb, Se, CN-, Cr (VI), Hg, PAHs	Groundwater
APEC-3	Southwestern portion of the Site in the vicinity of former orchard	#40: Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On-Site PCA-8	OCPs	Soil
APEC-4A	Northern portion of the Property in the vicinity of Shed 1.	#N/S: Storage of miscellaneous debris, refuse and boats	On-Site PCA-13	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-4B	Eastern portion of the Site	#N/S: Storage of miscellaneous debris and refuse	On-Site PCA-15	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-4C	Central portion of the Site immediately north of agricultural field	#N/S: Storage of miscellaneous debris and refuse	On-Site PCA-16	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-4D	Southern portion of the Site immediately south of agricultural field	#N/S: Storage of miscellaneous debris and refuse	On-Site PCA-17	PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, low or high pH, PAHs	Soil
APEC-5A	Eastern portion of the Site	#N/S: Inferred application of de-icing agents	On-Site PCA-18	EC, SAR	Soil
				Sodium, Chloride	Groundwater
APEC-5B	Western portion of the Site	#N/S: Inferred application of de-icing agents	On-Site PCA-19	EC, SAR	Soil
				Sodium, Chloride	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-6	Within the Vicinity of Site Building B	#27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles	On-Site PCA-20	PHCs, VOCs, BTEX, Metals, As, Sb, Se, Cr (VI), Hg, PAHs	Soil and Groundwater

Notes:

N/S - not specified in Table 2, Schedule D, of O.Reg. 153/04
BTEX = Benzene, Toluene, Ethylbenzene, Xylene
OCPs = Organochlorine Pesticides
PAHs = Polycyclic Aromatic Hydrocarbons
PHCs = Petroleum Hydrocarbons
VOCs = Volatile Organic Compounds

C. Any subsurface structures and utilities on, in or under the Phase Two Property that may affect 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.

Plans were not available to confirm the depths of these utilities or whether they are present, however they are estimated to be installed at depths ranging from 2 to 3 metres below ground surface.

The depth to groundwater at the RSC Property is inferred to be approximately 3.6 to 5.5 mbgs, therefore the utility corridors do have the potential to act as preferential pathways for contaminant distribution and transport in the event that shallow subsurface contaminants exist at the RSC Property.

II. Description of, and as appropriate, figures illustrating, the physical setting of the Phase Two Property and any areas under it including:

A. Stratigraphy from ground surface to the deepest aquifer or aquitard investigated

A surficial layer of topsoil approximately 150 to 250 mm in thickness was encountered in all test-pits (TP1 to TP8) and boreholes BH23-5, BH23-6 and BH23-7 advanced. An asphalt layer, approximately 150 mm in thickness, was encountered at the ground surface in borehole BH23-8 and a 50 mm thick layer of granular fill consisting of sand and gravel was present at the ground surface in borehole BH23-2. Fill materials consisting of clayey silt to silty clay with trace rootlets/organics and/or weathered shale, and cobble fragments were present in all boreholes extending to depths ranging from 0.8 to 1.5 mbgs. Beneath the fill strata, the native soil generally consisted of silty clay till extending to depths of between 1.6 to 3.1 m in all the boreholes. Shale bedrock was encountered at approximate depths ranging from 2.3 to 3.3 mbgs which extended to a maximum termination depth of 18.8 mbgs, and was confirmed by coring.

The borehole locations are depicted on Figure 5. A visual representation of the stratigraphy investigated is presented on the cross-sections provided in Figure 5A.

B. Hydrogeological Characteristics, including aquifers, aquitards and, in each hydrostratigraphic unit where one or more contaminants is present at concentrations above the applicable site condition standards, lateral and vertical gradients

Two (2) of the monitoring wells installed by DS on the Phase Two Property (MW23-9 and MW23-17) were utilized to assess the groundwater quality in relation to APEC-2 and APEC-5B. In addition, groundwater monitoring wells (BH1, BH2 and BH4) installed as part of the SHAD Geotechnical Investigation (2022) were also utilized for groundwater sampling purposes in relation to assessing APEC-2, APEC-5A, APEC-5B, and APEC-6. Two additional wells installed by SHAD (2022, namely BH3 and BH5) were utilized solely for groundwater monitoring purposes.

Monitoring wells were screened to intersect the first water bearing formation encountered, generally to allow for the assessment of LNAPL, and to provide information regarding the quality of the groundwater.

The remaining monitoring wells were installed on the Phase Two Property as a part of hydrogeological and geotechnical investigations conducted concurrently with the

environmental investigation. These monitoring wells were not used to assess the groundwater conditions on-Site.

Generally, the groundwater elevation on July 19, 2023 was found to range between 2.66 to 4.12 mbgs, with groundwater elevations ranging between 150.83 and 156.38 masl in the aquifer investigated. Based on the groundwater elevations recorded, the groundwater flow direction was southwest towards the Sixteen Mile Creek. The groundwater elevation contours, and flow direction are presented on Figure 5.

The horizontal hydraulic gradient was calculated based on the groundwater levels recorded on July 19, 2023.

Summary of Horizontal Hydraulic Gradient Calculations

Hydrogeological Unit	Calculated Horizontal Hydraulic Gradient
Till-Highly Weathered Shale Interface	Minimum: 0.013 m/m Average: 0.014 m/m Maximum: 0.015 m/m

C. Depth to bedrock

Shale bedrock was encountered at approximate depths ranging from 2.3 to 3.3 mbgs which extended to a maximum termination depth of 18.8 mbgs in all advanced boreholes except BH23-12, BH23-13, BH23-14, BH23-15, BH23-16, BH23-18, BH23-19, TP1 to TP8. Shale bedrock was confirmed by coring.

D. Approximate depth to water table

The depth to groundwater was measured in seven (7) monitoring wells installed during the course of this investigation (the remaining wells were utilized solely as part of a hydrogeological investigation conducted concurrently). On July 19, 2023 the groundwater levels were found to range between 2.66 to 4.12 mbgs.

E. Any respect in which section 41 or 43.1 of the regulation applies to the property

Section 35

Section 35 is not applicable to the Phase Two Property, permission to use the non-potable groundwater standards was not obtained from Halton Region.

Section 41

A total of twenty-one (21) pH samples were collected and submitted for analysis on the RSC Property.

Eighteen (18) pH samples were collected from depths of between 0 to 1.5m representing surficial soils. The pH values of surficial soils measured between 6.87 and 8.38 units, which are within the acceptable limits for non-sensitive sites.

Three (3) pH samples were collected from depths of between 1.5 to 1.6 m, representing subsurface soils. The pH values of the subsurface soils measured between 7.59 and 7.8 units, which is within the acceptable limits for non-sensitive sites. Figure 7B has been updated in order to show the pH results.

There are no areas of natural significance on the Site, or within 30 m of the Site. As such the Site is not considered to be environmentally sensitive as defined by Section 41.

Section 43.1

Not applicable – the Site is not a shallow soil property, nor does it include a water body, nor is it within 30 metres of a water body.

F. Areas on, in or under the Phase Two Property where excess soil is finally placed

No excess soil was placed on the Site.

G. Approximate locations, if known, of any proposed buildings and other structures

The proposed redevelopment will feature a residential subdivision. The proposed building locations have not been finalized.

III. Where a contaminant is present on, in or under the Phase Two Property at a concentration greater than the applicable site condition standard, identification of

A. Each area where a contaminant is present on, in or under the Phase Two Property at a concentration greater than the applicable SCS

The results of the chemical analyses conducted on soil and groundwater samples indicate that the applicable Site Condition Standards have been met, as such no areas of contamination are present on the RSC Property.

B. The contaminants associated with each of the areas

The results of the chemical analyses conducted on soil and groundwater samples indicate that the applicable Site Condition Standards have been met.

C. Medium that contaminants were identified in

No contaminants were identified at concentrations greater than the applicable SCS in soil or groundwater.

D. Description and assessment of what is known about each of the areas

No contaminants were identified at concentrations greater than the applicable SCS in soil or groundwater, as such no contaminated areas are present on the RSC Property.

E. Distribution in which the areas of each contaminant is present in the area at a concentration greater than the applicable SCS, for each medium in which the contaminant is present, together with figures showing the distribution

No contaminants were identified at concentrations greater than the applicable SCS in soil or groundwater.

F. Anything known about the reason for the discharge of the contaminants present on, in or under the Phase Two Property at a concentration greater than the applicable SCS

No contaminants were identified at concentrations greater than the applicable SCS in soil or groundwater. No discharge of contamination has occurred.

G. Anything known about migration of the contaminants present on, in or under the phase two property at a concentration greater than the applicable SCS away from any area of potential environmental concern, including the identification of any preferential pathways

No contaminants were identified at concentrations greater than the applicable SCS in soil or groundwater. No contaminant migration has occurred.

H. Climatic or meteorological conditions that may have influenced distribution and migration of the contaminants, such as temporal fluctuations in groundwater levels

No contaminants were identified at concentrations greater than the applicable SCS in soil or groundwater. Therefore the potential effect of meteorological and climatic conditions on the migration of contaminants on the Phase Two Property is considered to be minimal.

I. Information concerning soil vapour intrusion of the contaminants into buildings

No volatile parameters were identified at concentrations greater than the applicable SCS, therefore vapour intrusion is not considered to be an exposure pathway at this time.

IV. Where contaminants on, in or under the Phase Two Property are present at concentrations greater than the applicable SCS, one or more cross-sections showing
    A. The lateral and vertical distribution of a contaminant in each area where the contaminants are present at concentrations greater than the applicable SCS in soil, groundwater and sediment
    B. Approximate depth to water table
    C. Stratigraphy from ground surface to the deepest aquifer or aquitard investigated
    D. Any subsurface structures and utilities that may affect contaminants distribution and transport

No contaminants were identified at concentrations greater than the applicable SCS in soil or groundwater. However, for illustration purposes a cross section has been provided in Figure 5A.

V. For each area where a contaminant is present on, in or under the property at a concentration greater than the applicable SCS for the contaminant, a diagram identifying, with narrative explanatory notes
    A. The release mechanisms
    B. Contaminant transport pathway
    C. The human and ecological receptors located on, in or under the phase two property
    D. Receptor exposure points
    E. Routes of exposure

No contaminants were identified at concentrations greater than the applicable SCS in soil or groundwater. Refer to Figure 9.