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Phase Two Environmental Site Assessment

1840 & 1850 Bloor Street, Mississauga, Ontario

G2S24012B

Ranee Management
4122 Bathurst Street
Toronto, Ontario
M3H 3P2

June 2024

Executive Summary

G2S Consulting Inc. (G2S) was retained by Ranee Management (the Client) to complete a Phase Two Environmental Site Assessment (ESA) for the property located at 1840 and 1850 Bloor Street in Mississauga, Ontario, hereinafter referred to as the 'Site'. Refer to Drawing 1 in Appendix A for the Site Location Plan.

For the purpose of this report, Site North has been established as parallel to Bloor Street, with Bloor Street running east to west. The Site is located on the south side of Bloor Street, approximately 340 m east of Fieldgate Drive, and is currently developed with two eighteen story residential apartment buildings, each constructed with a basement and underground parking garage. The Site covers an approximate plan area of 3.9 hectares (9.8 acres), and an asphalt laneway is located along the north portion of the Site. Two asphalt parking lots are located in the west and east portions of the Site, and landscaped areas are located in the southern extent of the Site. The Study Area consists of residential, commercial, and industrial land use. The Etobicoke Creek is located 190 m east of the Site flowing south towards Lake Ontario located approximately 5.5 km south.

Based on information collected from the Site visit and records review, aerial photographs indicate that the Site consisted of an orchard extending across the majority of the Site until approximately 1966, when the Site was cleared and subsequently developed with two residential apartment buildings between 1966 and 1975. The Site has remained residential since that time.

G2S understands the Client requires a Phase Two ESA related to the proposed development of an additional apartment building on-Site. The Site is currently used for residential purposes. Since there is no change in property use planned, a Record of Site Condition (RSC) is not required under O. Reg. 153/04. This Phase Two ESA was completed in accordance with Schedule D. of O. Reg. 153/04, as amended, for Site Plan and zoning approval purposes.

The purpose of this Phase Two ESA was to satisfy O. Reg. 153/04 (as amended) requirements, to investigate potential contamination within Areas of Potential Environmental Concern (APECs) identified during a Phase One ESA completed by G2S in February 2024, in preparation of submitting a Site Plan and zoning application to the City of Mississauga. Refer to the appended Drawings 2 and 3 in Appendix A for a summary of the identified Potentially Contaminating Activities (PCAs) and APECs for the Site.

The field work for this investigation was completed from February to March 2024, with the drilling conducted in two stages. The first stage of drilling was conducted on February 13 and 15, 2024, and included the advancement of eleven boreholes on-Site, two of which were installed as groundwater monitoring wells. The second stage of drilling was conducted on March 20, 2024, and included the advancement of an additional six boreholes on-Site, three of which were installed as groundwater monitoring wells. Refer to Drawing 4 for the Borehole and Monitoring Well Location Plan.

The findings of this assignment are summarized as follows:

1. In general, the subsurface conditions comprised of approximately 100 to 300 mm of pavement structure and/or topsoil underlain by fill materials to depths between 0.8 and 3.0 m below ground surface (bgs). Native silty sand was encountered to depths between 1.2 and 5.2 m bgs. The silty sand layer extended to borehole completion depths in all boreholes on-Site, with the exception of boreholes BH101, BH102, BH201, and BH202,

which transitioned to weathered shale bedrock which extended to borehole completion depths between 4.6 and 9.6 m bgs. Refer to the borehole logs in Appendix B.

2. Groundwater was found in the monitoring wells during the most recent round of sampling on March 20, 2024, between depths of 0.84 and 5.94 m bgs.

3. Soil samples were submitted for laboratory analysis of petroleum hydrocarbon fractions F1 to F4 (PHCs F1 to F4) including benzene, toluene, ethylbenzenes, and xylenes (BTEX), volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), metals and inorganics. The concentrations of the tested parameters in the submitted samples were below the Ministry of Environment, Conservation, and Parks (MECP) Table 3 Site Condition Standards (SCS) for Residential/Parkland/Institutional (RPI) Property Use, with medium-fine textured soils, with the exception of the following:

    - VOC parameter trichloroethylene (TCE) in soil sample BH102 S5.
    - OCP parameter dichlorodipheyldichloroethylene (DDE) in soil samples BH102 S1 and BH108 S1.
    - The laboratory detection limit for Total PCBs (<0.50 µg/g) exceeded the SCS of 0.35 µg/g in soil samples BH106 S1 and BH114 S1 (field duplicate of BH106 S1).

4. Groundwater samples from the monitoring wells were submitted for laboratory analysis of PHCs F1-F4 including BTEX, VOCs, and metals. The concentrations of the tested parameters in the submitted samples were below the MECP Table 3 SCS.

Based on the results of the Phase Two ESA, the Site soil does not meet the applicable MECP Table 3 RPI SCS.

The topsoil on-Site has elevated levels of the OCP DDE in the southwest portion and along the southeast property boundary of the Site in the landscaped/walking path areas, found at depths between approximately 0.1 and 0.2 m bgs. Due to the elevated concentrations and detections of OCPs found in the area of the historic orchard it is presumed that OCPs are present in the topsoil across the area where the historic orchard was located. The layer of contaminated topsoil was found to depths of up to approximately 0.3 m bgs, covering an approximate maximum area of 17,853 m^2. The estimated volume of fill material requiring removal is 5,360 m^3 or some 10,720 metric tonnes (based on an average density of approximately 2.0 tonnes/m^3).

The elevated concentration of TCE was located in the native silty sand. The layer of contamination in the native silty sand is present in the southeast area of the Site and was found at a depth between approximately 3.0 and 3.7 m bgs. The layer of contaminated silty sand was found to depths of up to approximately 3.7 m bgs, covering an approximate maximum area of 2,966 m^2. The estimated volume of silty sand material requiring removal is 13,645 m^3 or some 27,290 metric tonnes (based on an average density of approximately 2.0 tonnes/m^3).

A Site remediation/cleanup program will be required before an RSC can be prepared for the Site.

The groundwater quality on-Site meets the applicable SCS in the samples tested.

In accordance with O. Reg. 903/90, as amended, the monitoring wells should be decommissioned if the wells are not in use or being maintained for future use.

The assignment is subject to the Statement of Limitations that is included in this report. It should be noted soil and groundwater conditions between and beyond the sampled locations may differ from those encountered during this assignment. G2S should be contacted if impacted soil or groundwater conditions become apparent during future development to further access and appropriately handle the materials, if any, and evaluate whether modifications to the conclusions documented in this report are necessary.

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Appendices

List of Drawings

1. Introduction

G2S Consulting Inc. (G2S) was retained by Ranee Management (the Client) to complete a Phase Two Environmental Site Assessment (ESA) for the property located at 1840 and 1850 Bloor Street in Mississauga, Ontario, hereinafter referred to as the 'Site'.

G2S understands the Client requires a Phase Two ESA related to the proposed development of an additional apartment building on the southern portion of the Site. The Site is currently used for residential purposes. Since there is no change in property use planned, a Record of Site Condition (RSC) is not required under O. Reg. 153/04. This Phase Two ESA was completed in accordance with Schedule D. of O. Reg. 153/04, as amended, for Site Plan and zoning approval purposes.

Drawing 1 in Appendix A illustrates the location of the Site involved in the study.

1.1 Site Description

The 'Study Area', which is defined as being the area including the Site and lands within approximately 250 m of the Site, consists of residential, commercial, and industrial land use.

Based on information collected from the Site visit and records review, aerial photographs indicate that an orchard extended across the majority of the Site until approximately 1966, when the Site was cleared and subsequently developed with two residential apartment buildings between 1966 and 1975. The Site has remained residential since that time.

1.2 Property Ownership and Information

Table 1: General Site Details

Municipal Address	1840 and 1850 Bloor Street in Mississauga, Ontario
General Site Location	South side of Bloor Street, south adjacent to the intersection of Bloor Street and Bridgewood Drive, approximately 340 m east of Fieldgate Drive and approximately 190 m west of Etobicoke Creek.
Approximate Plan Area	Approximate plan area of 3.9 hectares (9.8 acres), with frontage of approximately 204 m on Bloor Street and a depth of approximately 204 m.
Property Identification Number (PIN)	13332-0514 (LT)
Legal Description	LT 1 PL 775 TORONTO AS IN VS37214, VS37216" AMENDED 00/09/19 BY C. COOPER"; S/T EASEMENT OVER LT 1 PL 775 AS IN VS37214, VS37216, AS IN PR1239113; CITY OF MISSISSAUGA
Current Site Owner and Contact Information	1840-50 Bloor East (Miss.) Ltd. Ranee Management Ilana Glickman 4122 Bathurst Street Toronto, Ontario M3H 3P2 416-756-3962 ext. 227 ilanag@ranee.ca
Current Site Occupant	Two Apartment buildings

1.3 Current and Proposed Future Land Uses

G2S understands the Client requires a Phase Two ESA related to the proposed development of an additional apartment building on the southern extent of the Site. The Site is currently used for residential purposes. Since there is no change in property use planned, a Record of Site Condition (RSC) is not required under O. Reg. 153/04. This Phase Two ESA was completed in accordance with Schedule D. of O. Reg. 153/04, as amended, for Site Plan and zoning application purposes.

In accordance with the current regulatory requirements, the environmental site assessment work was carried out under the supervision of a Qualified Person as defined in O. Reg. 153/04, as amended.

1.4 Applicable Site Condition Standards

The assessment criteria applicable to a given site in Ontario are provided in the 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,” dated April 15, 2011.

Standards are provided in Tables 1 to 9 in the document. These standards are based on site sensitivity, groundwater use, property use, soil type and restoration depth.

For this investigation, G2S has selected the Full Depth Generic Table 3 Site Condition Standards (SCS) in a Non-Potable Groundwater Condition and Residential/Parkland/Institutional (RPI) Property Use, with medium-fine textured soils. The selection of this category is based on the following factors:

- There is no intention to carry out stratified restoration at the Site.
- Based on field observations and grain size analysis, the predominant soil type on the Site is medium-fine textured.
- The use of the Site is residential with no proposed change in land use.
- The Site is not located within 30 metres of a water body.
- The Site is not considered a sensitive site based on:
    - The Site is not within an area of natural significance or includes or is adjacent to such an area or part of such an area.
    - The pH values are within the recommended range of 5 to 9 for surface soil (<1.5 m) and within 5 to 11 for subsurface soil (>1.5 m).
- The potable groundwater condition does not apply to the Site based on:
    - To the best of G2S’s knowledge, all properties within 250 m of the Site are serviced by the municipal water supply.

- No potable wells were observed at the Site and based on a review of MECP well records within the Study Area, no potable water wells exist within 250 m of the Site.

- Based on the findings from the Phase Two ESA, the following can be confirmed with respect to Sections 41 and 43.1 of O.Reg. 153/04:

  - The Site is not a shallow soil property and is not located within 30 m of a surface water body, as defined in Section 43.1 of O.Reg. 153/04.

  - The Site is not an environmentally sensitive site as defined in Section 41 of O.Reg. 153/04.

2. Background Information

2.1 Physical Setting

No water bodies or areas of natural significance were located on-Site or within the Study Area. The nearest water body is Etobicoke Creek, which is located approximately 190 m east of the Site.

The Site is located approximately 129 m above sea level. Based on our observations and review, the expected direction of groundwater flow is to the east/northeast, following surface topography towards Etobicoke Creek. Local variations in groundwater flow patterns, however, can be expected due to buried utility infrastructures and buildings.

G2S reviewed the Soil Associations of Southern Ontario map which indicated the Site and Study Area is dominantly clay loam formed on till or lacustrine sediments from the Perth (G.B.P) family, neutral and stone free. Additionally, the Palaeozoic Geology of Southern Ontario, Map 2254, Ontario Division of Mines, was reviewed which indicated the Site is underlain by grey shale with limestone interbeds; limestone upper member Manitoulin Island of the Upper Ordovician Queenston Formation.

2.2 Past Investigations

The following previous environmental reports were completed for the Site by others and were provided to G2S for review.

Table 2: Summary of Previous Environmental Reports

Report Details	Findings and Conclusions
Title: Phase I Environmental Assessment 1840 and 1850 Bloor Street East Mississauga, Ontario **Date of Report:** November 8, 2010 **Author of the Report:** Try Environmental Services Inc.	• At the time of Phase One Environmental Site Assessment, two fourteen storey residential rental apartment buildings were located on the north portion of the Site. • A Site visit was conducted on October 27, 2010, by TRY Environmental Services Inc. • Each building consists of a concrete foundation with a brick exterior, with one level of underground parking present at the rear of the building. The buildings are heated with natural gas boiler and lighting consists of fluorescent and incandescent lights. • A 1954 aerial of the Site depicted it being used for agricultural purposes. • City directories indicated the Site was first developed in the 1960s and were listed as apartment buildings. • Technical Standards and Safety Authority (TSSA) confirmed there was no history of tanks or removals for the Site. • The central portion of the Site is paved, and used as a parking lot, surface drainage is directed to catch basins located throughout the paved spaces. • A Phase One ESA was previously completed by Courtland Engineering Consultants Inc. (Courtland) in October 2000 and was reviewed as part of the Phase One ESA by TRY. The. Phase One ESA identified concerns related to the current and historical industrial activities on the

Report Details	Findings and Conclusions
	south adjacent property. A Limited Phase Two ESA was recommended to determine the presence/absence of impacted soil and/or groundwater at the Site. A Limited Phase Two ESA was completed by Courtland in November of 2000 and was also reviewed as part of the Phase One ESA by TRY. The Limited Phase Two ESA included the advancement of three test pits along the southern border of the property. Salient points include: ○ All soil samples were found to meet Ministry of the Environment's Guideline for Use at Contaminated Sites in Ontario (1997) Table B Soil and Groundwater criteria, in non-potable ground water conditions, for residential land use, thus no further investigation was recommended. ○ Chemical analyses concluded that all results were below laboratory detection limits, other than trace amount of heavy oil being detected. • The Phase One ESA did not identify any significant environmental concerns that would restrict the current use or redevelopment of the property. **G2S Comments** • *The Limited Phase Two ESA report that was referenced by TRY and completed by Courtland Engineering Consultants Inc. in 2000, was not available for review.*
Title: Phase I Environmental Site Assessment Update 1840-1850 Bloor Street Mississauga, Ontario **Date of Report:** January 19, 2021 **Author of the Report:** Try Environmental Services Inc.	• A Phase One ESA Update was completed for the Site by Try Environmental Services (TRY) in 2020/2021. The Site included two fourteen storey residential apartment buildings located on the north portion of the Site. • A Site visit was completed by TRY on December 2, 2020. • The Phase One ESA was completed in general accordance with Canadian Standards Association Standard Z768-01 (reaffirmed 2016). The Phase One ESA relied on previous work completed in 2010. The purpose of the report was to identify changes in land use or adjacent to the property since the previous investigation was completed in 2010. • The property located at 3280 Wharton Way (south adjacent), was historically occupied by Walbar Machine Products of Canada Ltd., a turbine component manufacturing company from 1966 to 1998. Wajax Industries Ltd., a forklift repair and sales company, occupied the property at the time of the report. • The property use of the adjacent properties did not change significantly since the completion of the 2010 Phase One ESA. Wajax Industries Ltd. remains on the south adjacent property (3280 Wharton Way). • A summary of a report entitled "*Draft Hydrogeological Assessment, 1840-1850 Bloor Street, Mississauga, Ontario",* completed by Terraprobe Inc., dated May 21, 2020, was provided. The report was completed for the proposed construction of two new 18-storey residential towers. The proposed location of the towers is where the swimming pool and

Report Details	Findings and Conclusions
	basketball courts are currently located, in the south-central portion of the Site. A total of eight boreholes were completed, ranging in depths between 5.7 and 6.3 m below ground surface (bgs). Three of the boreholes were completed as monitoring wells. Groundwater levels were measured between 0.52 and 2.21 m bgs. The interpreted groundwater flow direction was to the northeast towards Etobicoke Creek. • One groundwater sample was collected for chemical analysis and evaluation against the Region of Peel Sewer By-Law Limits for disposal options for short term dewatering from the construction of the underground parking garage. The analyzed parameters met the Region of Peel's sanitary discharge criteria but exceeded the storm sewer discharge criteria for Total Suspended Solids (TSS) and Total Manganese. The applicable Site Condition Standards for the Site is the Ministry of the Environment, Conservation and Parks (MECP) Table 3 Site Condition Standards (SCS) for residential, parkland and institutional property use, in coarse textured soil in a potable groundwater condition. There are no Table 3 SCS for manganese or TSS, although the remaining parameters tested, were below the MECP Table 3 SCS. • Based on the regional topography of the Site and surrounding properties, the inferred groundwater flow direction is east/northeast towards Etobicoke Creek, located approximately 200 m east of the Site. • The report concluded that no further investigation was required as no significant environmental concerns associated with the Site occurred since the Phase One report conducted in 2010.
Summary of Reports Provided Through the MECP FOI Request	
Title: Site Inspection at 1840 and 1850 Bloor Street East, Mississauga, ON L4X 1T2 (1T3) **Date of Report:** October 8, 2009 **Author of the Report:** Ontario Ministry of the Environment	• An inspection to assess compliance with Ontario Regulation 103/94 of the Environmental Protection Act was completed for the Site on September 16, 2009, by Provincial Officer Sorina Marinescu. • O. Reg 103/94 requires residential buildings with six or more units to separate the following waste categories, aluminum food or beverage cans, glass bottles and jars, newsprint, PET bottles, steel food or beverage containers and categories of waste collected by the blue box waste management system of the municipality. • The Site included two fourteen storey residential apartment buildings. • The officer met with both superintendents for the buildings located at 1840 and 1850 Bloor Street East, Mississauga. • There were no non-compliances found at the time for either building regarding the above Ontario Regulations.
Title: Ministry of the Environment and Climate Change Incident Report **Date of Report:** June 23, 2003	• On June 23, 2003, a spill incident was reported to the Ministry of the Environment by an unknown caller. • The report states that there was a spill of approximately 50 L of hydraulic oil to the parking lot and catch basin at 1840 Bloor Street East from a Canadian Waste Services garbage truck. • Most of the soil spilled onto the asphalt and was contained with absorbent but some has spilled into a small catch basin/storm drain on the property.

Report Details	Findings and Conclusions
Author of the Report: Ontario Ministry of the Environment and Climate Change	• A sweeper came in that night and cleaned up the absorbent. • The spill was cleaned by the owner. • On June 24, 2003, Provincial Officer Tim checked the outfall and stated there was no flow and it was clean concluded both the outfall and creek were running clear and there were no apparent impacts to fish or wildlife. • No further action to be taken as there was no apparent threat to the environment.
Title: Ministry of the Environment and Climate Change Incident Report **Date of Report:** July 29, 2016 **Author of the Report:** Ontario Ministry of the Environment and Climate Change	• On July 29, 2016, an incident was reported to the Ministry of the Environment by a caller, Jonathan Kowba, from the Region of Peel Spills Action Centre, dealt with the call. • The report states that a main waterline broke in front of 1840 Bloor Street East and there was murky, light brown water washing down into Etobicoke Creek through the storm sewer and that there were no impacts at the water course. • A crew on-Site blocked off the road and locates companies arrived shortly. • The water was quickly shut off and repairs were made. • On August 11, 2016, Leah Noordhof from the Halton-Peel District Office noted no impacts were reported at water course and no further actions were required as there was no apparent threat to the environment.
Title: Ministry of the Environment and Climate Change Incident Report **Date of Report:** July 24, 2017 **Author of the Report:** Ontario Ministry of the Environment and Climate Change	• On July 24, 2017, an incident was reported to the Ministry of the Environment by Kevin Parks, the Region of Peel Spill Coordinator. • The report states that a main waterline broke, and the sediment nearby was washing down into Etobicoke Creek through the storm sewer. • The water was quickly shut off and repairs were made. • On August 11, 2017, Provincial Officer David Keene checked the outfall to Etobicoke Creek and concluded both the outfall and creek were running clear and there were no apparent impacts to fish or wildlife. • David Keene recommended no further action to be taken as there was no apparent threat to the environment.
Title: Ministry of the Environment and Climate Change Incident Report **Date of Report:** December 21, 2020 **Author of the Report:** Ontario Ministry of the Environment and Climate Change	• On December 21, 2020, an incident was reported to the Ministry of the Environment by Kevin Parks, the Region of Peel Spill Coordinator. • Haiden McDonald from the Spills Action Center dealt with the call. • The report states that a private 6” side waterline broke located at 1840 Bloor Street East and the water was washing down into a nearby catch basin and into Etobicoke Creek. The caller stated sediment was brought to the creek from the incident. • The water was valved down, and residents had been notified. • On January 26, 2021, Andrea Lloyd from the Halton-Peel District Office stated there we no reported significant impacts and no further actions were required at the time.

G2S completed a Phase One ESA for the Site, entitled:

"Phase One Environmental Site Assessment, 1840 & 1850 Bloor Street, Mississauga, Ontario," dated February 2024.

Historical review of the surrounding properties within a 250 m radius of the Site identified four on-Site PCAs and several off-Site PCAs, as defined in the amended O. Reg. 153/04. The PCAs were assessed based on observations of the operations, their location relative to the Site with respect to the inferred groundwater flow direction, their tenure, expected chemical storage amounts, etc. Based on review and evaluation of the information gathered, the following APECs were identified on-Site:

APEC 1: Entire Site - Evidence of sloping and mounding on the southern portion of the Site was observed during Site visit and signs of disturbed soil was noted in the aerial photograph from 1966 in the southwestern potion of the Site. Fill material was identified during hydrogeological investigations completed by others in 2020.

APEC 2A: Northwest portion of Site - Transformer located to the northwest of the apartment building on-Site identified as 1840 Bloor Street.

APEC 2B: South-central portion of Site - Transformer located to the southwest of the apartment building on-Site identified as 1850 Bloor Street.

APEC 3: Central and eastern portion of the Site - Historic presence of an orchard on-Site from ~1954 to 1966.

APEC 4: Paved surfaces on-Site - Current and historical use of de-icing salt located on paved portions of the Site.

APEC 5: Southern portion of the Site - Current and historic use of 1865 Sharlyn Road (south adjacent) by Walbar Machine Products of Canada Ltd., an aircraft and aircraft parts manufacturing company, including hazardous waste records and the historic presence of United Steel Workers of America 8991 (Plant 1).

APEC 6: Southern portion of the Site - Current and historic use of the property located at 3280 Wharton Way (south adjacent) by Wajax Industrial Equipment, Highway Trailers of Canada Ltd., Ditch Witch of Ontario Div. of Wajax Industries Ltd., A E Ajax Division of Wajax and Walbar Machine Products of Canada Ltd., a manufacturer of turbine components from 1966 to 1998.

Regarding APEC 4 (de-icing salt use), per Section 49.1 of O. Reg 153/04, assessment of this APEC was not required. Under the Regulations, where a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both, the applicable standard is deemed not to be exceeded. In this regard, further assessment of this APEC was not required.

Based on the Phase One ESA findings, a Phase Two ESA was recommended to investigate potential environmental impacts in soil and groundwater, resulting from the identified APECs.

3. Scope of the investigation

3.1 Overview of Site Investigation

The purpose of this Phase Two ESA was to satisfy O. Reg. 153/04 (as amended) requirements, to investigate potential contamination within APECs identified during a Phase One ESA completed by G2S in February 2024. Refer to the appended Drawings 2 and 3 in Appendix A for a summary of the identified PCAs and APECs for the Site.

3.2 Scope of Work

The scope of work for this investigation included the following:

- Review of previous reports;
- The locating and marking of underground utilities by public and private utility locators;
- Attendance at the Site to complete boreholes and install groundwater monitoring wells;
- Soil and groundwater sampling;
- Laboratory analysis of soil and groundwater samples;
- Data compilation and evaluation of the information gathered, and
- Preparation of this report, discussing the information compiled and the corresponding conclusions and recommendations.

4. Investigation method

4.1 General

The locations of underground utilities were identified and marked by public locating companies as well as a private utility locating contractor.

4.2 Media Investigated

Based on the Phase One ESA, the media potentially impacted at the Site included soil and groundwater which were investigated as part of this Phase Two ESA. No sediment or surface water was present.

4.3 Phase One Conceptual Site Model

Based on the review, interpretation and evaluation of the data compiled, a Phase One Conceptual Site Model (CSM) of the Phase One ESA property was prepared and is included in the G2S Phase One ESA report completed in February 2024. The additional information acquired as part of this Phase Two ESA was used to prepare the Phase Two CSM.

4.4 Deviations from Sampling and Analysis Plan

No deviations from the Sampling and Analysis Plan were encountered during this assignment.

4.5 Impediments

There were no impediments during completion of this Phase Two ESA.

4.6 Drilling

The field work for this investigation was completed from February to March 2024, with the drilling conducted in two stages.

The first stage of drilling was conducted on February 13, 2024, eight exterior boreholes (labelled as BH101 to BH108) were advanced by ACE Environmental Drilling Ltd. (ACE), a licensed well contractor, under the supervision of G2S staff. Two of the boreholes (BH101 and BH102) were completed as groundwater monitoring wells and were identified as BH/MW101 and BH/MW102, respectively. A truck mounted 7822 GeoProbe drill rig was used to advance the boreholes/monitoring wells and to collect the soil samples.

On February 15, 2024, one interior borehole (BH109) and two exterior boreholes (BH110 and BH111) were advanced on the Site by Sonic Soil Sampling Inc. (Sonic), under the supervision of G2S staff. A Pionjar was used to advance and collect the soil samples from the boreholes.

The second stage of drilling was conducted on March 20, 2024, and included the advancement of an additional six boreholes on-Site (labelled as BH201 to BH206) by ACE, under the supervision of G2S staff. Three of the boreholes (BH201, BH202, and BH203) were completed as groundwater monitoring wells and were identified as BH/MW201, BH/MW202, and BH/MW203, respectively.

Appropriate precautions were taken, and equipment and sampling tool decontamination was carried out during field work to minimize potential cross-contamination between samples and boreholes. Petroleum-based greases and/or solvents were not used during drilling activities. The boreholes were sampled to a maximum depth of approximately 4.0 m bgs upon split spoon sample refusal at the shale. Four of the boreholes (BH101, BH102, BH201, and BH202) were extended into the shale to a maximum depth of approximately 9.6 m bgs for monitoring well installations.

The borehole and monitoring well locations were established in the field by G2S as shown on Drawing 4 in Appendix A.

4.7 Soil Sampling

During field work, soil samples in the boreholes were collected using disposable polyvinyl chloride (PVC) tube liners, and split spoon samplers advanced following direct push methods. G2S staff continually monitored the field activities to log the recovered soil cores/samples, to record the depth of soil sample collection and total depths of the boreholes. Field observations were recorded on borehole logs and are included in Appendix B.

The soil samples were field logged and placed in laboratory provided glass jars with Teflon™ lined lids and/or methanol vials (pre-filled and weighed with 10 mL purge & trap grade methanol). Sample cores for analysis of volatiles were collected using a 5-gram Eze-Core Soil Sampler. Disposable nitrile gloves (one per sample) were used during sample collection. The jars and vials were then sealed and stored in an insulated cooler with ice for transportation to the laboratory for additional examination. The remaining soil samples were placed in a sealed plastic bag for vapour screening for the presence of organic vapours. Particular attention was applied to visual and olfactory evidence of potential contamination such as odour and staining during field work.

The soil sampling and sample handling procedures were carried out according to the supporting documents of O. Reg. 153/04, as amended and established standards.

4.8 Field Screening Measurements

Organic vapour readings were recorded using an RKI Eagle 2 gas detector, equipped with a Photo Ionization Detector (PID) sensor, calibrated to isobutylene (IBL) and a catalytic combustible gas sensor, calibrated to hexane (HEX). The PID sensor detects low level volatile organic compounds (VOCs) in parts per million (ppm) and the catalytic combustible gas sensor detects petroleum hydrocarbons (PHCs) in ppm or lower explosive limit (LEL). Accuracy of the gas monitor varies with the type of gas being measured.

The correlation between combustible vapour concentrations and PHCs in soil is highly dependent on the soil type, moisture content, and characteristics of the contaminant of concern. The results of the screening are used as a tool in establishing relative soil vapour concentrations, and aid in the selection of soil samples for chemical analysis among samples and borehole locations.

The organic vapour readings were measured by inserting the instrument's probe into the headspace of the plastic bag and manipulating the soil samples by hand. There are no regulatory criteria for soil vapours; however, organic vapour readings provide a general indication of the relative concentration of organic vapours encountered in the soil samples during drilling.

4.9 Groundwater Monitoring Well Installation

Groundwater monitoring wells were installed in boreholes BH101, BH102, BH201, BH202, and BH203, identified as BH/MW101, BH/MW102, BH/MW201, BH/MW202, and BH/MW203, respectively. The monitoring wells were installed in accordance with the Ontario Water Resources Act – R.R.O. 1990, Regulation 903, as amended to O. Reg. 128/03, and were installed by a licensed well contractor (ACE).

The monitoring wells were installed to depths between 3.48 and 9.55 m bgs. The monitoring wells were constructed using 50-millimetre (mm) diameter, number 10 slot Schedule 40 PVC screen and PVC riser pipe, completed with 1.5 and 3.0 m long screen, and sealed at the base with PVC end cap and an appropriate length of riser pipe extending to just below the stick-up casing. All pipe connections were threaded flush joints with no lubricants or adhesives used in the construction of the monitoring wells. Details of the completion of the monitoring wells are provided on the borehole logs in Appendix B. The annular space around the well screen in the wells were backfilled with silica sand to an approximate height of 0.6 m above the top of the screen. The sand pack was extended above the screens to allow for compaction of the sand pack and expansion of the overlying well seal. A granular bentonite ('Hole Plug') seal was placed in the borehole annulus from the top of the sand pack to approximately 0.15 m below the ground surface. The monitoring wells were completed with stick-up protective steel casings cemented in place.

The Site owner is considered to be the owner of the monitoring wells installed by ACE ("well owner" Section 1.0, Regulation 903). When the monitoring wells are no longer required, it is the owner's responsibility to arrange for abandonment in accordance with Ontario Water Resources Act–R.R.O. 1990, Regulation 903, as amended to O. Reg. 128/03.

4.10 Elevation Surveying

The borehole/monitoring well locations were selected and established in the field by G2S, and ground surface elevations were determined by G2S. The borehole and monitoring well elevations were interpolated from a survey completed by Speight, Van Nostrand & Gibson Limited, dated May 22, 2019, reference1-775 PEEL.

The following benchmark (BM) was used by Speight, Van Nostrand & Gibson Limited for vertical reference:

BM: Base of a concrete traffic pole at the northwest corner of Bloor Street and Bridgewood Drive.
Published Elevation: 129.29 m

4.11 Groundwater Sampling

On February 20, 2024, G2S attended the Site to record the groundwater levels, develop and purge the groundwater in monitoring wells BH/MW101 and BH/MW102, and to collect groundwater samples for chemical testing. A groundwater level was recorded from an existing monitoring well located on the east central portion of the Site which was installed during a hydrogeological investigation completed by others. The monitoring well is referred to as monitoring well MWUNKN in this report.

Groundwater was not present in monitoring well BH/MW102 on February 20, 2024.

On March 20, 2024, G2S attended the Site to record the groundwater levels, develop and purge the groundwater in monitoring wells BH/MW201, BH/MW202 and BH/MW203, and to collect groundwater samples for chemical testing.

G2S returned to the Site on May 31, 2024, to check the groundwater level in BH/MW102. Groundwater was present and G2S recorded the groundwater level, developed and purged the groundwater in the monitoring well, and collected the groundwater samples for chemical testing.

An electronic water level metre was used to record the depth of groundwater in the monitoring wells. Dedicated bailers were installed in the monitoring wells for purging and dedicated low-density polyethylene (LDPE) tubing was installed in the monitoring wells for sample collection with a low flow peristaltic pump. Well development included the removal of a minimum of three casing volumes or until the wells were dry, in accordance with fixed volume and well evacuation purging procedures as outlines in ASTM D6452 99 (2012). The electric water level metre was rinsed with a mild detergent, distilled water, and methanol to prevent cross contamination between wells.

The groundwater samples were field logged and placed in clean, laboratory provided bottles and stored in an insulated cooler on ice. Samples were then taken to the G2S laboratory where the samples were temporarily preserved in a refrigerator to maintain a cool environment or were delivered directly to the laboratory for analysis. Particular attention was applied to visual and olfactory evidence of potential contamination such as odours and/or sheen during field work.

The groundwater sampling and sample handling procedures were carried out according to the supporting documents of O. Reg. 153/04, as amended and established standards.

4.12 Analytical Testing

Selected soil and groundwater samples were submitted for chemical analysis under chain of custody protocols to Paracel Laboratories Ltd. (Paracel) and Testmark Laboratories Ltd. (Testmark), a Canadian Association for Laboratory Accreditation Inc. (CALA) accredited laboratory.

The rationale for soil sample selection was based on visual and/or olfactory evidence of potential contamination and assessment of the APECs identified in the 2024 Phase One ESA. Soil samples from the boreholes were analyzed for potential contaminants of concern (COCs), including PHCs F1 to F4 including BTEX, VOCs, PCBs, PAHs, OCPs, metals and inorganics. Grain size analysis was also completed on soil sample BH101 S6 to confirm the soil texture. The table below indicates the soil samples selected for laboratory analysis.

Table 3: Soil Samples Submitted for Laboratory Analysis

Sample ID	Depths (m bgs)	Date Sampled	Chemical Analysis							Rationale
			PHCs F1 to F4	BTEX	VOCs	PAHs	PCBs	OCPs	M/I	
BH101 S5	2.2 – 2.5	February 13, 2024	✓	✓	✓					Investigate APECs 5 & 6
BH102 S1	0 – 0.1							✓	✓**	Investigate APEC 3

Sample ID	Depths (m bgs)	Date Sampled	Chemical Analysis							Rationale
			PHCs F1 to F4	BTEX	VOCs	PAHs	PCBs	OCPs	M/I	
BH102 S3	0.4 – 1.2							✓		Vertical delineation of OCP exceedance
BH102 S5	2.1 – 3.0								pH only	Characterize Site, subsurface soil (>1.5 m)
BH102 S6	3.0 – 3.7		✓	✓	✓					Investigate APECs 5 & 6
BH103 S3	0.8 – 1.5					✓			✓	Investigate APEC 1
BH104 S1	0 – 0.2							✓	✓**	Investigate APEC 3
BH105 S1	0.0 – 0.1							✓	✓**	Investigate APEC 3
BH105 S2	0.1 – 1.2					✓			✓	Investigate APEC 1
BH105 S4	2.4 – 3.0		✓	✓						Investigate APEC 1, elevated vapour reading
BH106 S1	0.2 – 0.8		✓	✓			✓			Investigate APEC 2B
BH107 S1	0 – 0.2	February 13, 2024						✓	✓**	Investigate APEC 3
BH107 S2	0.2 – 1.2							✓		Vertical delineation
BH107 S3	1.5 – 2.4		✓	✓						Elevated vapour reading
BH108 S1	0 – 0.2							✓	✓**	Investigate APEC 3
BH108 S2	0.2 – 1.2							✓		Vertical delineation of OCP exceedance
BH109 S1	0.2 – 0.5	February 15, 2024						✓	✓**	Investigate APEC 3
BH110 S1	0 – 0.8					✓		✓	✓	Investigate APECs 1 & 3
B111 S1	0 – 0.8		✓	✓			✓			Investigate APEC 2A
BH112 S5	Duplicate of BH101 S5	February 13, 2024	✓	✓	✓					QA/QC
BH113 S2	Duplicate of BH105 S2					✓				QA/QC
BH114 S1	Duplicate of BH106 S1						✓			QA/QC

Sample ID	Depths (m bgs)	Date Sampled	Chemical Analysis							Rationale
			PHCs F1 to F4	BTEX	VOCs	PAHs	PCBs	OCPs	M/I	
BH115 S1	Duplicate of BH109 S1	February 15, 2024						✓	✓**	QA/QC
BH201 S8	3.1 – 4.6	March 13, 2024			✓					Vertical delineation of VOC soil exceedance& confirm previous data set
BH202 S1	0 – 0.3							✓	✓**	Horizontal delineation of OCP soil exceedance
BH202 S5	3.0 – 3.7				✓					Horizontal delineation of VOC soil exceedance
BH203 S1	0 – 0.3							✓	✓**	Horizontal delineation of OCPs
BH203 S6	3.8 – 4.6				✓					Horizontal delineation of VOC exceedance
BH204 S1	0 – 0.3							✓	✓**	Horizontal delineation of OCP soil exceedance
BH205 S1	0 – 0.2							✓	✓**	
BH206 S1	0 – 0.2							✓	✓**	
BH207 S5	Duplicate of BH202 S5				✓					QA/QC
BH208 S1	Duplicate of BH203 S1							✓	✓**	QA/QC

Notes: PHCs - Petroleum Hydrocarbons Fractions F1-F4
BTEX – Benzene, Toluene, Ethylbenzene, Xylene
PAHs – Polycyclic Aromatic Hydrocarbons
VOCs – Volatile Organic Compounds
PCBs – Polychlorinated Biphenyls
OCPs– Organochlorine Pesticides
M/I – Metals and Inorganics
** – Metals only
Metals and Inorganics include boron-hot water soluble (HWS), free cyanide (CN-), chromium hexavalent (CrVI), mercury (Hg), pH, electrical conductivity (EC), and sodium adsorption ratio (SAR)

The rationale for groundwater sample selection was based on visual and/or olfactory evidence of potential contamination and the identified APECs. Groundwater samples from the monitoring wells were analyzed for potential COCs including PHCs F1 to F4, BTEX, VOCs, and metals. The table below provides details of the groundwater samples collected and the chemical analyses performed.

Table 4: Groundwater Samples Submitted for Laboratory Analysis

Sample ID	Monitoring Well ID	Date Sampled	Chemical Analysis				Rationale
			PHCs F1 to F4	BTEX	VOCs	Metals	
MW101	BH/MW101	February 20, 2024	✓	✓	✓	✓	Investigate APECs 5 & 6
MW112	Duplicate of MW101		✓	✓	✓	✓	QA/QC
MW102	BH/MW102	May 31, 2024	✓	✓	✓	✓	Investigate APECs 5 & 6
MW201	BH/MW201	March 20, 2024	✓	✓	✓	✓	Investigate APECs 5 & 6, re-install in location of MW102
MW202	BH/MW202				✓		Horizontal delineation of VOC exceedance
MW203	BH/MW203				✓		
MW210	Duplicate of BH/MW201		✓	✓	✓	✓	QA/QC

Notes: Metals include chromium hexavalent (CrVI) and mercury (Hg).

4.13 Residue Management Procedures

Soil cuttings generated during drilling and purged groundwater from the monitoring wells were stored on-Site in sealed steel drums, pending the results of chemical testing. The drums can be removed off Site by a licenced waste disposal subcontractor once no longer required, or during redevelopment of the Site.

5. Review and Evaluation

5.1 Geology

Reference is made to the appended drawings in Appendix A and borehole logs in Appendix B for details of the field work including sampling locations, visual soil classification, inferred stratigraphy, groundwater observations, and monitoring well installation details.

The boundaries indicated on the borehole logs are intended to reflect transition zones for the purpose of environmental assessment and should not be interpreted as exact planes of geological change.

A description of the soil stratigraphy encountered on the Site, in order of depth, is summarized in the sections below. Cross-Sections A-A' and B-B' depicting profiles are included as Drawings 15 to 18, respectively, in Appendix A.

Pavement Structure

A surface layer of asphalt was encountered in borehole BH106, approximately 100 mm in thickness, underlain by approximately 50 mm of granular material. A surface layer of concrete, approximately 200 mm in thickness, underlain by approximately 20 mm of granular material, was encountered in the interior borehole BH109.

Topsoil

A surface layer of topsoil approximately 0.1 to 0.3 m thick was encountered in boreholes BH101, BH102, BH103, BH104, BH105, BH107, BH108, and BH201 to BH206.

Fill Materials/Reworked Native

Fill materials/reworked native were encountered at the surface of boreholes BH110, and BH111, and beneath the pavement structure and/or topsoil in each of the boreholes, generally consisting of brown/dark brown to brown/grey silty sand with some to trace clay, gravel, organics, shale, and/or wood debris. Black colouration was observed in borehole BH105, and a grey/green colouration was observed in BH103. The fill material extended to depths between approximately 1.5 and 3.0 m below ground surface (bgs). Fill material encountered in borehole BH109 and BH202 consisted of brown sand extending between depths of 0 and 2.1 bgs.

Native Material

Native materials encountered beneath the fill materials in the boreholes generally consisted of brown to brown/grey silty sand, with trace stone, extending to depths between 1.2 to 5.2 m bgs. Native brown sand was encountered in borehole BH101 between approximately 2.2 and 3.0 m bgs, the native sand transitioned back into the native silty sand.

Bedrock

Grey weathered shale bedrock was encountered below the native material in BH101, BH102, BH201, and BH202 at depths ranging from approximately 3.7 to 9.5 m bgs.

5.2 Groundwater Elevation and Flow Direction

Groundwater levels were measured in the wells on February 20, March 7 and 20, and May 31, 2024. The arbitrary elevation of the ground surface was determined in the field, and groundwater level measurements were taken by measuring to the surface of the groundwater from the ground surface and from the top of the well casing with the necessary corrections made to establish depths below grade if required.

The following table summarizes the monitoring well installation details and groundwater observations.

Table 5: Summary of Groundwater Levels

Monitoring Well I.D.	Ground Surface Elevation	Well Depth from Ground Surface (m)	Screened Interval Elevation (m) and Depth (m bgs)	Groundwater Elevation and Depth (m bgs)			
				February 20, 2024	March 7, 2024	March 20, 2024	May 31, 2024
MWUNKN	128.73	5.81	125.92 – 122.92 (2.81 – 5.81)	126.20 (2.53)	-	127.34 (1.39)	-
BH/MW101	128.03	3.48	126.05 – 124.55 (1.98 – 3.48)	127.03 (1.00)	-	127.19 (0.84)	-
BH/MW102	128.77	6.15	125.62 – 122.62 (3.15 – 6.15)	Dry	Dry	Dry	126.92 (1.85)
BH/MW201	128.71	9.55	122.16 – 119.16 (6.55 – 9.55)	-	-	124.75 (3.96)	-
BH/MW202	129.27	9.31	122.96 – 119.96 (6.31 – 9.31)	-	-	123.33 (5.94)	-
BH/MW203	128.43	7.58	123.85 – 120.85 (4.58 – 7.58)	-	-	125.42 (3.01)	-

Note: Monitoring wells were surveyed for elevation relative to a geodetic benchmark.

Based on the measured groundwater elevation data, local groundwater flow at the Site appears to be towards the southeast towards Etobicoke Creek located approximately 190 m east of the Site.

The groundwater levels were found at depths between 0.84 and 5.94 m bgs during the most recent round of measurements on March 20, 2024. Groundwater levels are subject to seasonal fluctuations and variations in precipitation; however, the effects of seasonal variation at the Site are not anticipated to significantly affect the groundwater conditions of the Site from an environmental viewpoint. Due to the depth of groundwater, utilities are not expected to impact the flow of groundwater or affect the migration of contaminants.

5.3 Groundwater Hydraulic Gradient

Groundwater level contours for the monitoring wells on-Site are shown on Drawing 5, which also shows the monitoring well locations and measured water levels. Table 2 above provides a summary of the water levels between February and May 2024.

Based on G2Ss' Site observations and short-term water level measurements, the groundwater table underlying the Site has a horizontal gradient of approximately 0.04 (4%) towards the southeast.

Vertical hydraulic gradient was not determined as part of the investigation since the COCs in groundwater met the applicable MECP Table 3 SCS.

5.4 Soil Texture

The subsurface stratigraphy in the boreholes typically comprised topsoil over a deposit of fill materials underlain by native silty sand. Grain size analysis of a representative sample collected during the Phase Two ESA was completed by G2S and indicated 14.1% by mass of particles were greater than 75 µm and 85.9% by mass of particles were less than 75 µm in mean diameter, thus indicating medium/fine textured soils as defined in O. Reg. 153/04.

5.5 Soil Field Screening

Measured soil vapour concentrations on the headspace of recovered soil samples were identified between 0 and 85 ppm for the catalytic gas sensor and between 0 and 56 ppm for the photoionization detector at the time of sampling. Complete soil field screening measurements are presented on the borehole logs in Appendix B.

5.6 Analytical Findings – Soil

Tables summarizing the analytical results are included in Appendix C and the laboratory Certificates of Analysis for the soil samples submitted for analysis are included in Appendix D.

The laboratory method detection limits (MDLs) were below the MECP Table 3 RPI SCS for the parameters analyzed, with the exception total PCBs in soil samples BH102 S1 and BH108 S1.

5.6.1 Petroleum Hydrocarbons Fractions F1 to F4 (PHC F1 to F4) including Benzene, Toluene, Ethylbenzene, and Xylene (BTEX)

Petroleum hydrocarbons F1 to F4 including BTEX were not detected or were detected at concentrations below the Table 3 RPI SCS in the submitted soil samples. Refer to Table 1 in Appendix C.

5.6.2 Volatile Organic Compounds (VOCs)

Volatile organic compounds were not detected or were detected at concentrations below the Table 3 RPI SCS in the submitted soil samples, with the exception of the following:

- Sample BH102 S6 – Trichloroethylene (0.72 µg/g) exceeded the SCS of 0.52 µg/g.

Refer to Table 2 in Appendix C.

5.6.3 Polycyclic Aromatic Hydrocarbons (PAHs)

Polycyclic aromatic hydrocarbons were not detected in the submitted soil samples and met the Table 3 RPI SCS. Refer to Table 3 in Appendix C.

5.6.4 Metals and Inorganics

Metals and inorganics were not detected or were detected as concentrations below the Table 3 RPI SCS in the submitted soil samples. Refer to Table 4 in Appendix C.

5.6.5 Polychlorinated Biphenyls (PCBs)

Polychlorinated biphenyls were not detected in the submitted soil samples. The laboratory detection limit for Total PCBs (<0.50 µg/g) exceeded the SCS of 0.35 µg/g in soil samples BH106 S1 and BH114 S1 (field duplicate of BH106 S1).

The laboratory indicated that results were likely reported with an elevated reporting limit above the SCS due to the following:

"Any halogenated (F, Cl, Br) compound can cause interferences with the Electron Capture Detector. Although the most common interference will come from phthalate esters, as these compounds generally appear in the chromatogram as a large peak. Common plastics contain varying amounts of phthalates which are easily extracted or leached from the material. In the case of these samples, the interference appears to be coming from some halogenated compounds of an unknown source."

Refer to Table 5 in Appendix C.

5.6.6 Organochlorine Pesticides (OCPs)

Organochlorine pesticides were not detected or were detected as concentrations below the Table 3 RPI SCS in the submitted soil samples, with the exception of the following:

- Sample BH102 S1 – dichlorodipheyldichloroethylene (DDE) (0.38 µg/g) exceeded the SCS of 0.33 µg/g.
- Sample BH108 S1 – DDE (0.45 µg/g) exceeded the SCS of 0.33 µg/g.

Refer to Table 6 in Appendix C.

5.7 Analytical Findings – Groundwater

Tables summarizing the analytical results are included in Appendix C and the laboratory Certificates of Analysis for the groundwater samples submitted for analysis are included in Appendix D.

The laboratory MDLs were below the MECP Table 3 SCS for the parameters analyzed.

5.7.1 PHC F1 to F4 including BTEX

Petroleum hydrocarbons F1 to F4 including BTEX were not detected in the submitted groundwater samples and met the Table 3 SCS. Refer to Table 7 in Appendix C.

5.7.2 VOCs

Volatile organic compounds were not detected in the submitted groundwater samples and met the Table 3 SCS. Refer to Table 8 in Appendix C.

5.7.3 Metals

Metals were not detected or were detected as concentrations below the Table 3 SCS in the submitted groundwater samples. Refer to Table 9 in Appendix C.

5.7.4 LNAPLs and DNAPLs

No sheen or hydrocarbon odours were observed in the purged groundwater from the monitoring wells.

5.8 Quality Assurance/Quality Control (QA/QC) Results

Paracel Laboratories Ltd. (Paracel) and Testmark Laboratories Ltd. (Testmark) are accredited by the Canadian Association for Laboratory Accreditation (CALA) in accordance with ISO/IEC 17025:2017 – "General Requirements for the Competence of Testing and Calibration Laboratories" for the analysis of all parameters for all samples in the scope of work for which SCS have been established under O. Reg. 153/04.

The chemical analyses conducted by Paracel and Testmark were in accordance with the O. Reg. 153/04 Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act dated March 9, 2004, amended as of July 1, 2011. Soil and groundwater samples were analysed by using standard reference methods and the testing methods were referenced in the Paracel and Testmark Certificates of Analysis, as required by the MECP's protocol. Laboratory Quality Assurance/Quality Control (QA/QC) data is included with the Certificates of Analysis, which are appended. Method blank, spiked method blank, laboratory spiked, and duplicate soil samples were analysed by the laboratory with each batch of samples.

The results of chemical analysis of method blank sample indicated that the detected levels were within the acceptable range. The chemical test data for spiked method blank and laboratory spike samples indicated that the recovery ranges were within the statistically determined control limits. Trip blank samples as well as blind field duplicates were obtained by G2S during the field work and submitted to Paracel as summarized in the following table:

Table 6: Trip Blank & Duplicate Sample Submissions

Sample I.D.	Date	Matrix	Rationale for Submission	Analysis
BH112 S5	02/13/24	Soil	Field duplicate of BH101 S5	PHCs, BTEX, VOCs
BH113 S2	02/13/24	Soil	Field duplicate of BH105 S2	PAHs
BH114 S1	02/13/24	Soil	Field duplicate of BH106 S1	PCBs
BH115 S1	02/15/24	Soil	Field duplicate of BH109 S1	Metals, OCPs
BH207 S5	03/13/24	Soil	Field duplicate of BH202 S5	PHCs, BTEX, VOCs
BH208 S1	03/13/24	Soil	Field duplicate of BH203 S1	Metals, OCPs
BH/MW112	02/20/24	GW	Field duplicate of BH/MW101	PHCs, BTEX, VOCs, Metals
BH/MW210	03/20/24	GW	Field duplicate of BH/MW201	PHCs, BTEX, VOCs, Metals

Sample I.D.	Date	Matrix	Rationale for Submission	Analysis
Trip Blank	02/20/24	GW	Laboratory Quality Assurance	VOCs
Trip Blank	03/20/24	GW	Laboratory Quality Assurance	VOCs

Note: GW – Groundwater

As a means of determining the reproducibility or variability related to analytical procedures of a homogenous sample, the relative percentage differences (RPD) between analyzed values for original and duplicate samples were calculated.

For sample reproducibility calculations, maximum RPD values were calculated using the following formula:

$$RPD = \frac{\text{Difference between duplicate results}}{\text{Average of duplicate results}} \times 100\%$$

The maximum RPD values for some PHC and PCB parameters calculated were above the acceptable statistical variation of 40% in soil sample BH101 S5, duplicate sample BH112 S5, BH106 S1, and duplicate sample BH114 S1. A summary of the data is presented in the following table. It is noted that soil sample BH106 S1 and duplicate sample BH114 S1 are comprised of heterogeneous fill.

Table 7: QA/QC Samples Submitted of Laboratory Analysis – Soil

Parameter	Sample ID	Analytical Result (µg/g)	RPD (%)
PHC F3	BH101 S5	<8	166.3
	BH112 S5	87	
Total PCBs	BH106 S1	<0.5	163.6
	BH114 S1	<0.05	

The maximum RPD for some VOC, PAH, PCBs, metals and inorganics parameters in the duplicate groundwater samples was outside of the acceptable statistical variation of 30 to 40% in samples BH/MW210 and duplicate sample BH/MW201. The data is summarized in the following table:

Table 8: QA/QC Samples Submitted of Laboratory Analysis – Groundwater

Parameter	Sample ID	Analytical Result (ug/g)	RPD (%)
Sodium	BH/MW201	709,400	156.9
	BH/MW210	85,600	

The RPDs outlined by the MECP (as generally less than or equal to 40%), refer to laboratory duplicates from homogenous samples. Fill and water samples are heterogeneous and thus, subject to both laboratory and sampling variability. As such, RPD control limits are generally larger than those defined in the Environmental Protection Act (EPA) and/or the MECP guidelines which outline sample duplicates of homogeneous samples and do not specify specific criteria for field duplicates. MECP documentation does however allow for larger limits with respect to field duplicates as the MECP recognizes the increased variability in sampling and subsequent elevated uncertainty.

The results of laboratory duplicate sampling performed by Paracel as part of their in-house QA/QC yielded acceptable data. The overall quality of the field data from the investigation with respect to the data quality objectives demonstrated that the overall objectives of the investigation and the assessment were met.

A 'trip blank' sample of groundwater was prepared by Paracel and utilized by G2S during the field groundwater sampling activities. The samples were submitted for chemical testing of VOCs and the measured concentration of the tested parameters were below the method detection limited (not detected).

With respect to subsection 47 (3) of the regulation, we confirm that:

A. All certificates of analysis or analytical reports received pursuant to clause 47 (2) (b) of the regulation comply with subsection 47(3).

B. A certificate of analysis or analytical report has been received for each sample submitted for analysis, and

C. All certificates of analysis or analytical reports received have been included in full in an appendix to the phase two environmental site assessment report.

5.9 Summary of Contamination

Tables summarizing the analytical results are included in Appendix C – Tables 1 to 6 for soil and Tables 7 to 9 for groundwater.

Based on review and evaluation of the data, the topsoil material on-Site has elevated levels of OCPs (DDE), and an elevated level of the VOC parameter trichloroethylene (TCE) was encountered within the native silty sand on-Site.

The layer of OCP contaminated topsoil is present in the southwest portion and along the southeast property boundary of the Site in the landscaped/walking path areas, found at depths between approximately 0.1 and 0.2 m bgs.

The layer of TCE contamination in the native silty sand is present along the southeast property boundary, found at a depth between approximately 3.0 and 3.7 m bgs.

Refer to Drawings 6 to 11, and Drawings 15 to 18 in Appendix A for plan views and cross-sections showing the locations of soil exceeding the Table 3 SCS for RPI property use.

The groundwater quality on-Site met the Table 3 SCS in the monitoring wells tested. Refer to Drawings 12 to 14 for plan views of the groundwater analytical data.

6. Conclusions and Recommendations

The purpose of this Phase Two ESA was to satisfy O. Reg. 153/04 (as amended) requirements, to investigate potential contamination within Areas of Potential Environmental Concern (APECs) identified during a Phase One ESA completed by G2S in February 2024. Refer to the appended Drawings 2 and 3 in Appendix A for a summary of the identified Potentially Contaminating Activities (PCAs) and APECs for the Site.

G2S understands the Client requires a Phase Two ESA related to the proposed development of an additional apartment building on-Site. The Site is currently used for residential purposes. Since there is no change in property use planned, a Record of Site Condition (RSC) is not required under O. Reg. 153/04. This Phase Two ESA was completed in accordance with Schedule D. of O. Reg. 153/04, as amended, for Site Plan and zoning approval purposes.

The investigation included the advancement of seventeen boreholes (BH), five of which were installed as monitoring wells (MW). Refer to Drawing 4 in Appendix A for the Borehole and Monitoring Well Location Plan.

The findings of this assignment are summarized as follows:

1. In general, the subsurface conditions comprised of approximately 100 to 300 mm of pavement structure and/or topsoil underlain by fill materials to depths between 0.8 and 3.0 m below ground surface (bgs). Native silty sand was encountered to depths between 1.2 and 5.2 m bgs. The silty sand layer extended to borehole completion depths in all boreholes on-Site, with the exception of boreholes BH101, BH102, BH201, and BH202, which transitioned to weathered shale bedrock which extended to borehole completion depths between 4.6 and 9.5 m bgs. Refer to the borehole logs in Appendix B.

2. Groundwater was found in the monitoring wells during the most recent round of sampling on March 20, 2024, between depths of 0.84 and 5.94 m bgs.

3. Soil samples were submitted for laboratory analysis of petroleum hydrocarbon fractions F1 to F4 (PHCs F1 to F4) including benzene, toluene, ethylbenzenes, and xylenes (BTEX), volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), metals and inorganics. The concentrations of the tested parameters in the submitted samples were below the Ministry of Environment, Conservation, and Parks (MECP) Table 3 Site Condition Standards (SCS) for Residential/Parkland/Institutional (RPI) Property Use, with medium-fine textured soils, with the exception of the following:

    - VOC parameter trichloroethylene (TCE) in soil sample BH102 S5.
    - OCP parameter dichlorodipheyldichloroethylene (DDE) in soil samples BH102 S1 and BH108 S1.
    - The laboratory detection limit for Total PCBs (<0.50 µg/g) exceeded the SCS of 0.35 µg/g in soil samples BH106 S1 and BH114 S1 (field duplicate of BH106 S1).

4. Groundwater samples from the monitoring wells were submitted for laboratory analysis of PHCs F1-F4 including BTEX, VOCs, and metals. The concentrations of the tested parameters in the submitted samples were below the MECP Table 3 SCS.

Based on the results of the Phase Two ESA, the Site soil does not meet the applicable MECP Table 3 RPI SCS.

The topsoil on-Site has elevated levels of the OCP DDE in the southwest portion and along the southeast property boundary of the Site in the landscaped/walking path areas, found at depths between approximately 0.1 and 0.2 m bgs, due to the elevated levels and detections of OCPs found in the area of the historic orchard it is presumed that OCPs are present in the topsoil across the area where the historic orchard was present. The layer of contaminated topsoil was found to depths of up to approximately 0.3 m bgs, covering an approximate maximum area of 17,853 m^2. The estimated volume of topsoil material requiring removal is 5,360 m^3 or 10,720 metric tonnes (based on an average density of approximately 2.0 tonnes/m^3).

The elevated level of TCE was identified in the native silty sand. The layer of contamination in the native silty sand is present in the southeast portion of the Site and was found at a depth between approximately 3.0 and 3.7 m bgs. The layer of contaminated silty sand was found to depths of up to approximately 3.7 m bgs, covering an approximate maximum area of 2,966 m^2. The estimated volume of silty sand material requiring removal is 13,645 m^3 or 27,290 metric tonnes (based on an average density of approximately 2.0 tonnes/m^3).

A Site remediation/cleanup program will be required before an RSC can be prepared for the Site.

The groundwater quality on-Site meets the applicable SCS in the samples tested.

In accordance with O. Reg. 903/90, as amended, the monitoring wells should be decommissioned if the wells are not in use or being maintained for future use.

The assignment is subject to the Statement of Limitations that is included in this report. It should be noted soil and groundwater conditions between and beyond the sampled locations may differ from those encountered during this assignment. G2S should be contacted if impacted soil or groundwater conditions become apparent during future development to further access and appropriately handle the materials, if any, and evaluate whether modifications to the conclusions documented in this report are necessary.

7. Qualifications of the Assessors

This Phase Two ESA was conducted by Ms. Rachael Lesmeister, B.A. Ms. Lesmeister is responsible for the successful completion of field work and reporting. Ms. Lesmeister has completed numerous projects on behalf of private and public sector clients for industrial, commercial, and residential sites.

This Phase Two ESA was reviewed by Ms. Stephanie Lewis, B.A. Ms. Lewis has been trained to conduct Phase One and Two ESAs in accordance with the CSA and O. Reg. 153/04, as amended. She is a senior project manager with over 12 years of professional experience specializing in environmental investigations and project management. Her main areas of expertise include Phase One and Phase Two ESAs, project management, site cleanup/remediation, UST and AST removals, and site remediation. She has completed numerous projects on behalf of private and public-sector clients for industrial, commercial, and residential sites.

This Phase Two ESA was reviewed by Mr. Geoff Bell, P. Geo. (limited). Mr. Bell has over 20 years of environmental consulting experience, including Phase One and Two ESAs, hazardous materials management, contaminant hydrogeology, air quality, environmental monitoring, and remediation of contaminated sites. Mr. Bell is responsible for the overall management of projects, QA/QC, and health and safety, as well as acting as a technical lead on projects. Mr. Bell is a Qualified Person as defined in Ontario Regulation 153/04 for signing off on Phase One and Two ESAs, remediation reports and Records of Site Condition (RSCs).

8. References and Supporting Documentation

a) "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario" Ministry of the Environment of Ontario, December 1996.

b) "Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", April 15, 2011.

c) The Ontario Water Resources Act – R.R.O. 1990, Regulation 903 – Amended to O. Reg. 128/03, August 2003.0.8

d) "Protocol for Analytical Methods Used in the Assessment of Properties Under Part XV.1 of the Environmental Protection Act", March 2004.

e) Ontario Regulation 153/04 (made under the Environmental Protection Act), May 2004, as amended.

f) "Z769-00, Phase II Environmental Site Assessment," Canadian Standard Association, March 2000.

g) Environmental Protection Act, R.S.O. 1990, Chapter E.19, as amended, September 2004.

h) Singer SN, Cheng CK, Scafe MG. (2003). *The Hydrogeology of Southern Ontario, Second Edition*, Report from the Ontario Ministry of the Environment.

i) "*Phase I Environmental Assessment 1840 and 1850 Bloor Street East, Mississauga, Ontario*," prepared by Try Environmental Services Inc for Zolty Holdings, dated November 8, 2010. Project Ref.: 10-2435.

j) "*Phase I Environmental Assessment Update 1840-1850 Bloor Street, Mississauga, Ontario*," prepared by Try Environmental Services Inc. for Ranee Management, dated January 19, 2021. Project Ref: 10-2435A.

k) "Phase One Environmental Site Assessment, 1840 and 1850 Bloor Street, Mississauga, Ontario," dated February 2024, prepared by G2S Consulting Inc. for Ranee Management.

9. Limitations

This report has been prepared for the sole benefit of Ranee Management (the Client) and is intended to provide limited information on the subsurface environmental conditions at the Site. The report may not be used by any other person or entity without the expressed written consent of the Client and G2S Consulting Inc. (G2S). Any use which a third party makes of this report, or any reliance on decisions made based on it, is the responsibility of such third parties. G2S accepts no responsibility for damages, if any suffered by any third party as a result of decisions made or actions based on this report.

The findings in this report are limited to the conditions at the Site at the time of this investigation as described herein. Conclusions presented in this report should not be construed as legal advice.

If Site conditions or applicable standards change or if any additional information becomes available at a future date, changes to the findings, conclusions and recommendations in this report may be necessary.

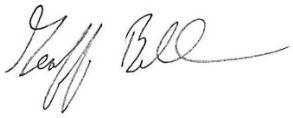
10. Closing Remarks

We trust this report is satisfactory for your purposes. Should you have any questions, please do not hesitate to contact this office.

Yours truly,

G2S Consulting Inc.

Rachael Lesmeister, B.A.
Senior Environmental Technician



Geoff Bell, P.Geo. (limited)
Principal, Senior Geoscientist

Stephanie Lewis, B.A.
Senior Project Manager

Appendix A:
Drawings

LEGEND

APPROXIMATE SITE LIMITS

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
SITE LOCATION PLAN

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

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DATE:	JUNE 2024
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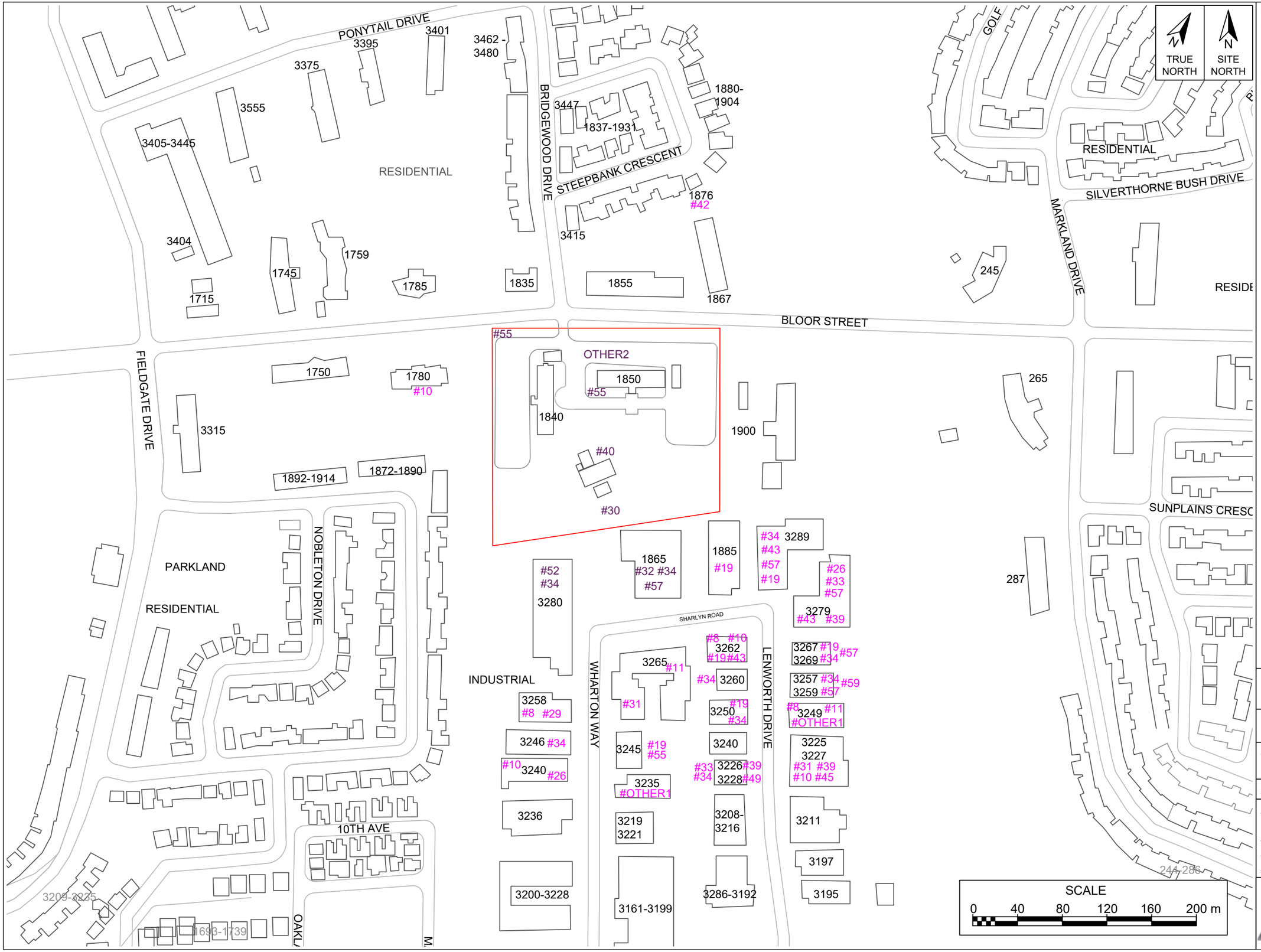
G2S



LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- #8 POTENTIAL CONTAMINATING ACTIVITY (PCA)
- #8 PCA CONTRIBUTING TO APEC

POTENTIALLY CONTAMINATING ACTIVITIES (PCAs) AS DEFINED BY O.REG. 153/04

- #8 CHEMICAL MANUFACTURING, PROCESSING, AND BULK STORAGE
- #10 COMMERCIAL AUTOBODY SHOP
- #11 COMMERCIAL TRUCKING AND CONTAINER TERMINALS
- #19 ELECTRONIC AND COMPUTER EQUIPMENT MANUFACTURING
- #26 FOAM AND EXPANDED FOAM MANUFACTURING AND PROCESSING
- #29 GLASS MANUFACTURING
- #30 IMPORTATION OF FILL MATERIAL OF UNKNOWN QUALITY
- #31 INK MANUFACTURING, PROCESSING, AND BULK STORAGE
- #32 IRON AND STEEL MANUFACTURING AND PROCESSING
- #33 METAL TREATMENT, COATING, PLATING, AND FINISHING
- #34 METAL FABRICATION
- #39 PAINTS MANUFACTURING, PROCESSING AND BULK STORAGE
- #40 PESTICIDES, MANUFACTURING, PROCESSING, BULK STORAGE, AND LARGE-SCALE APPLICATIONS
- #43 PLASTICS (INCLUDING FIBERGLASS), MANUFACTURING AND PROCESSING
- #45 PULP,PAPER AND PAPERBOARD MANUFACTURING AND PROCESSING
- #42 PHARMACEUTICAL MANUFACTURING AND PROCESSING
- #49 SALVAGE YARD, INCLUDING AUTOMOBILE WRECKING
- #52 STORAGE, MAINTENANCE, FUELING AND REPAIR OF EQUIPMENT, VEHICLES, AND MATERIAL USED TO MAINTAIN TRANSPORTATION SYSTEM
- #55 TRANSFORMER MANUFACTURING AND PROCESSING AND USE
- #57 VEHICLES AND ASSOCIATED PARTS MANUFACTURING
- #59 WOOD TREATING AND PRESERVATIVE FACILITY AND BULK STORAGE OF TREATED AND PRESERVED WOOD PRODUCTS
- #OTHER1 HWIN RECORDS
- #OTHER2 USE OF DE-ICING SALT

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
POTENTIALLY CONTAMINATING ACTIVITIES (PCAs)

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

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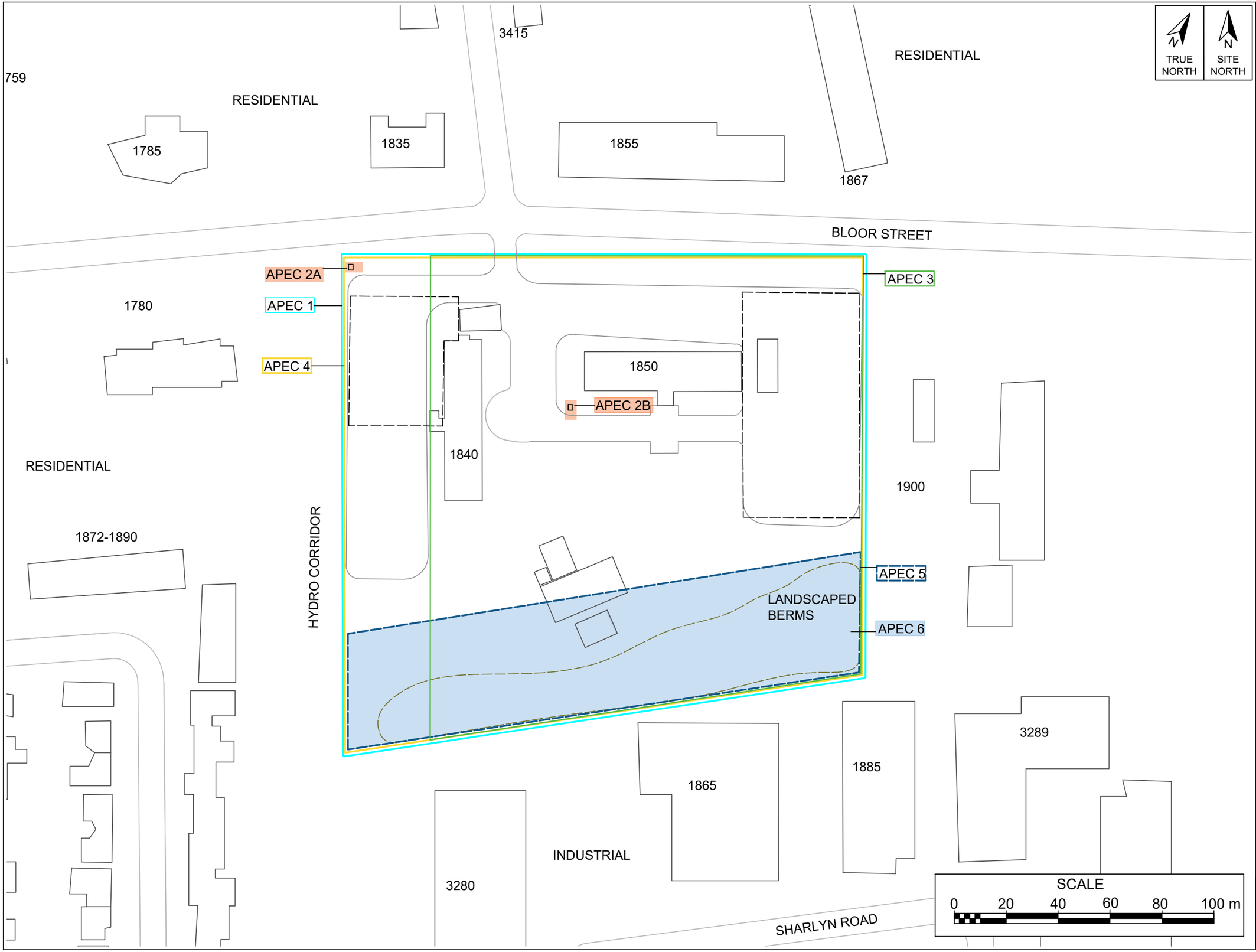

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

- APEC 1: ENTIRE SITE- EVIDENCE OF SLOPING AND MOUNDING ON THE SOUTHERN PORTION OF THE SITE OBSERVED DURING SITE VISIT, SIGNS OF DISTURBED SOIL IN THE SOUTHWESTERN PORTION OF THE SITE IN THE 1966 AERIAL PHOTOGRAPH, FILL MATERIAL WAS IDENTIFIED DURING HYDROGEOLOGICAL INVESTIGATIONS COMPLETED BY OTHERS IN 2020.
- APEC 2A: NORTHWEST PORTION OF THE SITE- TRANSFORMER LOCATED TO THE NORTHWEST OF THE APARTMENT BUILDING ON-SITE IDENTIFIED A 1840 BLOOR STREET.
- APEC 2B: SOUTH-CENTRAL PORTION OF SITE- TRANSFORMER LOCATED TO THE SOUTHWEST OF THE APARTMENT BUILDING ON-SITE IDENTIFIED AS 1850 BLOOR STREET.
- APEC 3: CENTRAL AND EASTERN PORTION OF THE SITE- HISTORIC PRESENCE OF AN ORCHARD ON-SITE FROM ~1954 TO 1966.
- APEC 4: PAVED SURFACES ON-SITE- CURRENT AND HISTORICAL USE OF DE-ICING SALT LOCATED ON PAVED PORTIONS OF THE SITE.
- APEC 5: SOUTHERN PORTION OF THE SITE- CURRENT AND HISTORIC USE OF 1865 SHARLYN ROAD BY WALBAR MACHINE PRODUCTS OF CANADA LTD, AN AIRCRAFT AND AIRCRAFT PART MANUFACTURING COMPANY, INCLUDING HAZARDOUS WASTE RECORDS AND UNITED STEEL WORKERS OF AMERICAN 8991 (PLANT1).
- APEC 6: SOUTHERN PORTION OF THE SITE- CURRENT AND HISTORIC USE OF THE PROPERTY AT 3280 WARTON WAY BY WAJAX INDUSTRIAL EQUIPMENT, HIGHWAY TRAILERS OF CANADA, DITCH WITCH OF ONTARIO DIV. OF WAJAX INDUS LTD, A E E DIV OF WAJAX, WALBAR MACHINE PRODUCTS OF CANADA, A MANUFACTURER OF TURBINE COMPONENTS FROM 1966 TO 1988.

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
AREAS OF POTENTIAL ENVIRONMENTAL CONCERN (APECs)

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

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SCALE:	AS SHOWN
DATE:	JUNE 2024
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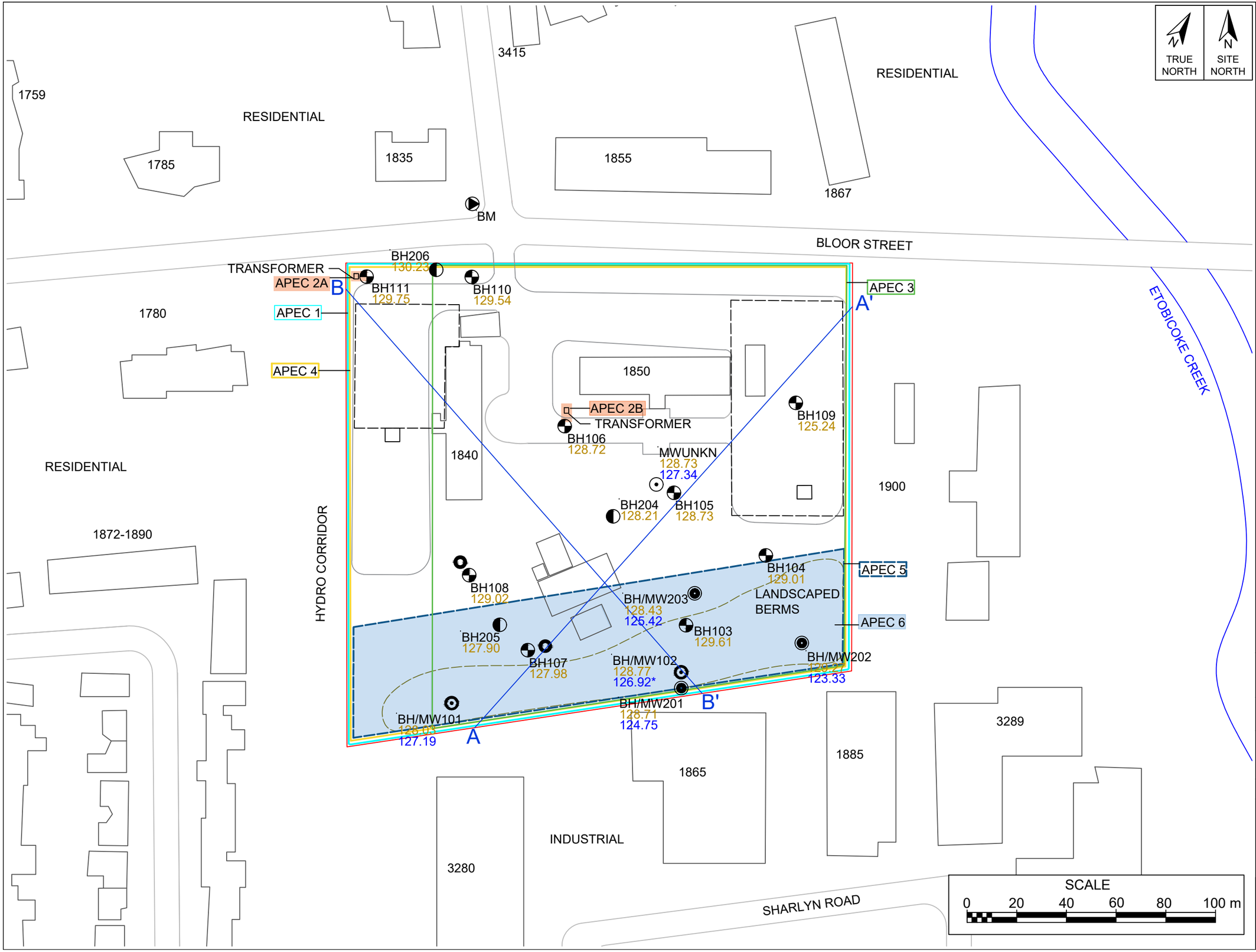

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- BENCHMARK (BM)
- 128.03 GROUND SURFACE ELEVATION (m)
- 127.25 MEASURED GROUNDWATER ELEVATION (m) (MARCH 20, 2024)
- A — A' CROSS SECTION LOCATION (SEE DRAWINGS 14 TO 17)

NOTE:
REFER TO DRAWING 3 FOR APEC DESCRIPTIONS

BOREHOLE ELEVATIONS WERE SURVEYED USING A BENCHMARK IDENTIFIED IN SPEIGHT, VAN NOSTRAND & GIBSON LIMITED, MAY 2019

* - MEASURED GROUNDWATER ELEVATION FROM BH/MW102 WAS RECORDED ON MAY 31, 2024).

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
BOREHOLE AND MONITORING WELL LOCATION PLAN

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

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SCALE:	AS SHOWN
DATE:	JUNE 2024
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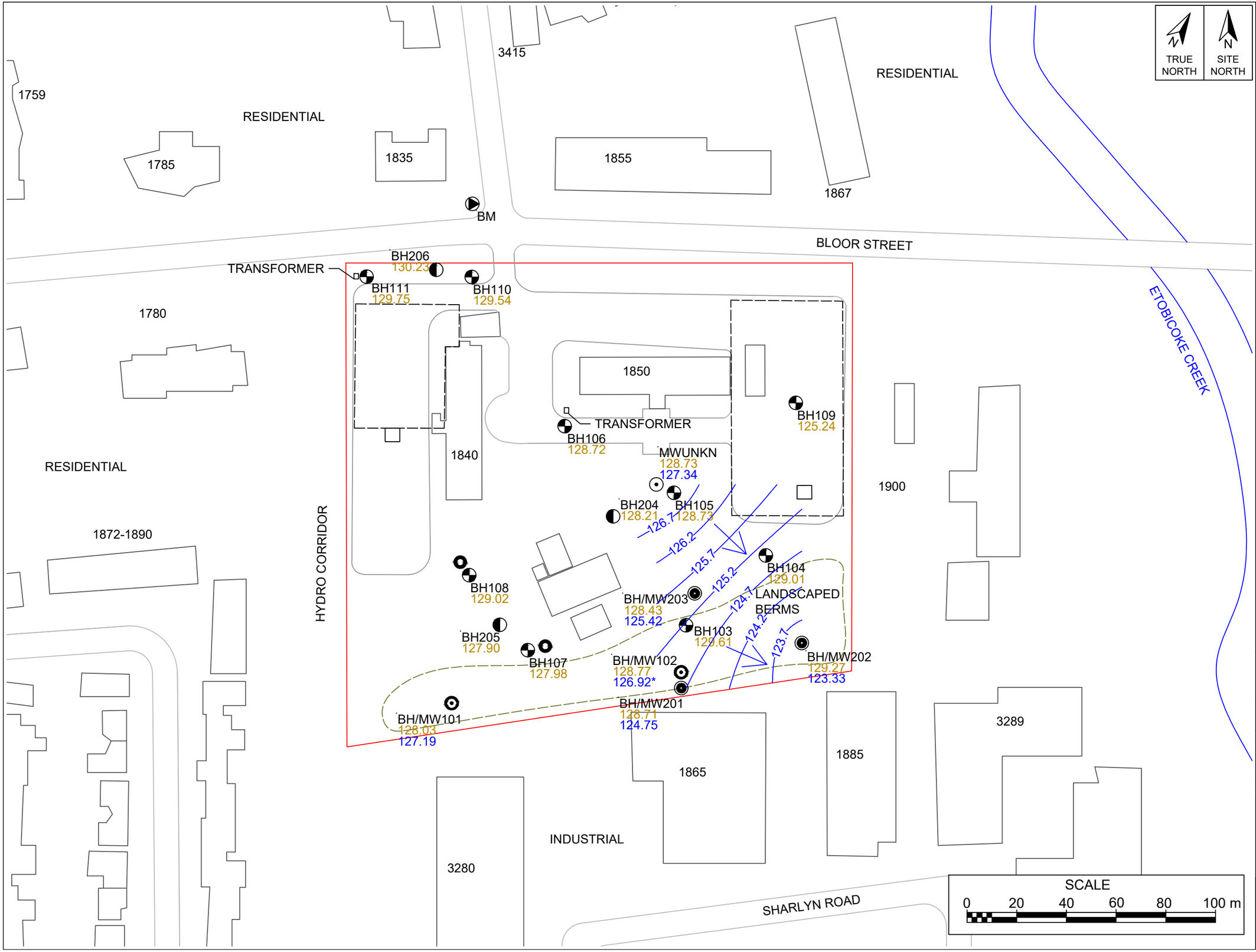

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- BENCHMARK (BM)
- 128.03 GROUND SURFACE ELEVATION (m)
- 127.25 MEASURED GROUNDWATER ELEVATION (m) (MARCH 20, 2024)

NOTE:
BOREHOLE ELEVATIONS WERE SURVEYED USING A BENCHMARK IDENTIFIED IN SPEIGHT, VAN NOSTRAND & GIBSON LIMITED, MAY 2019

* - MEASURED GROUNDWATER ELEVATION FROM BH/MW102 WAS RECORDED ON MAY 31, 2024).

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
GROUNDWATER CONTOUR PLAN -
MARCH 20, 2024

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

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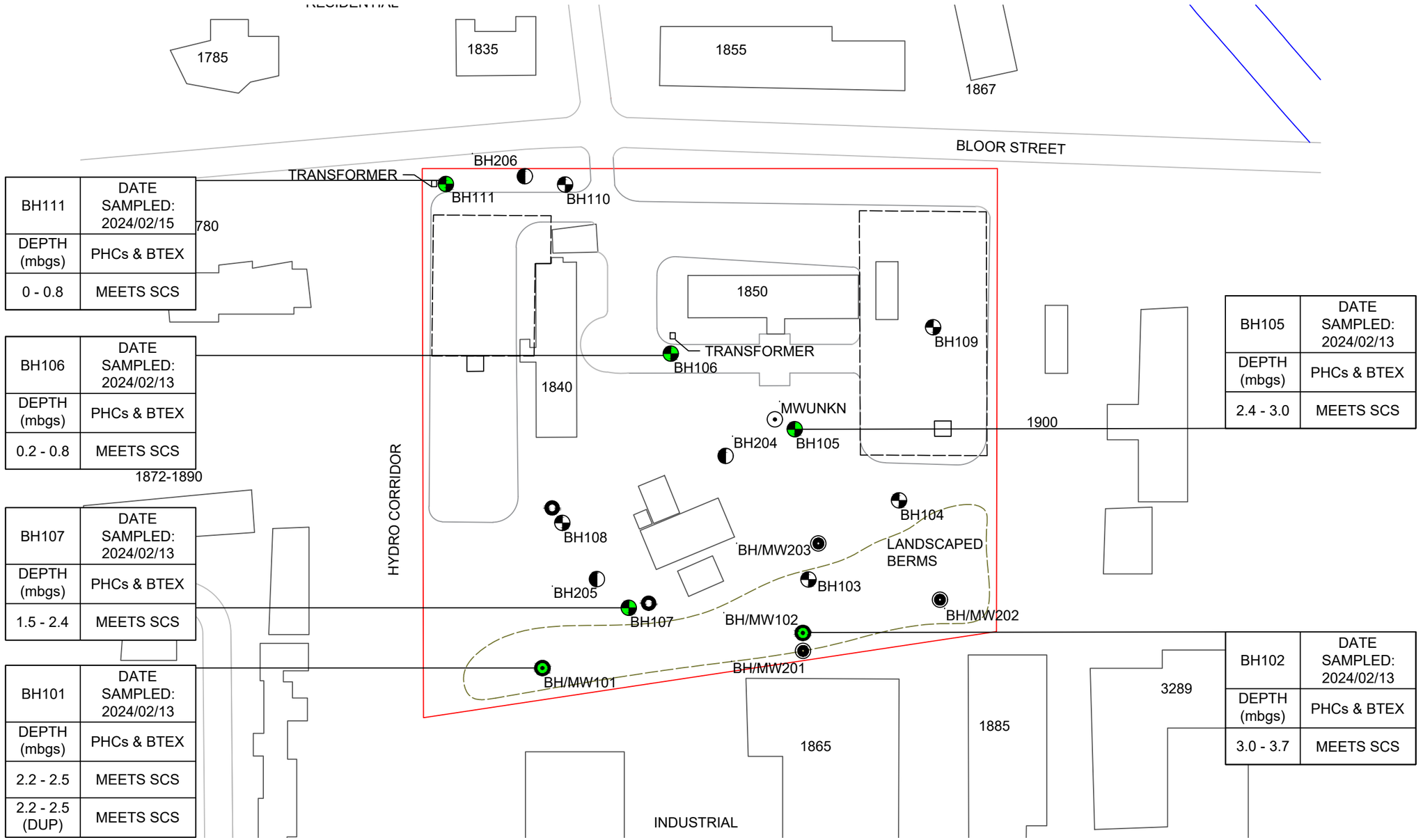

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- SAMPLE MEETS MECP TABLE 3 RPI SCS

SCS SITE CONDITION STANDARDS

PHCs PETROLEUM HYDROCARBONS F1 TO F4

BTEX BENZENE, TOLUENE, ETHYLBENZENE, XYLENES

RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
SOIL ANALYTICAL RESULTS -
PHCs F1 TO F4 INCLUDING BTEX

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	6
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DATE:	JUNE 2024
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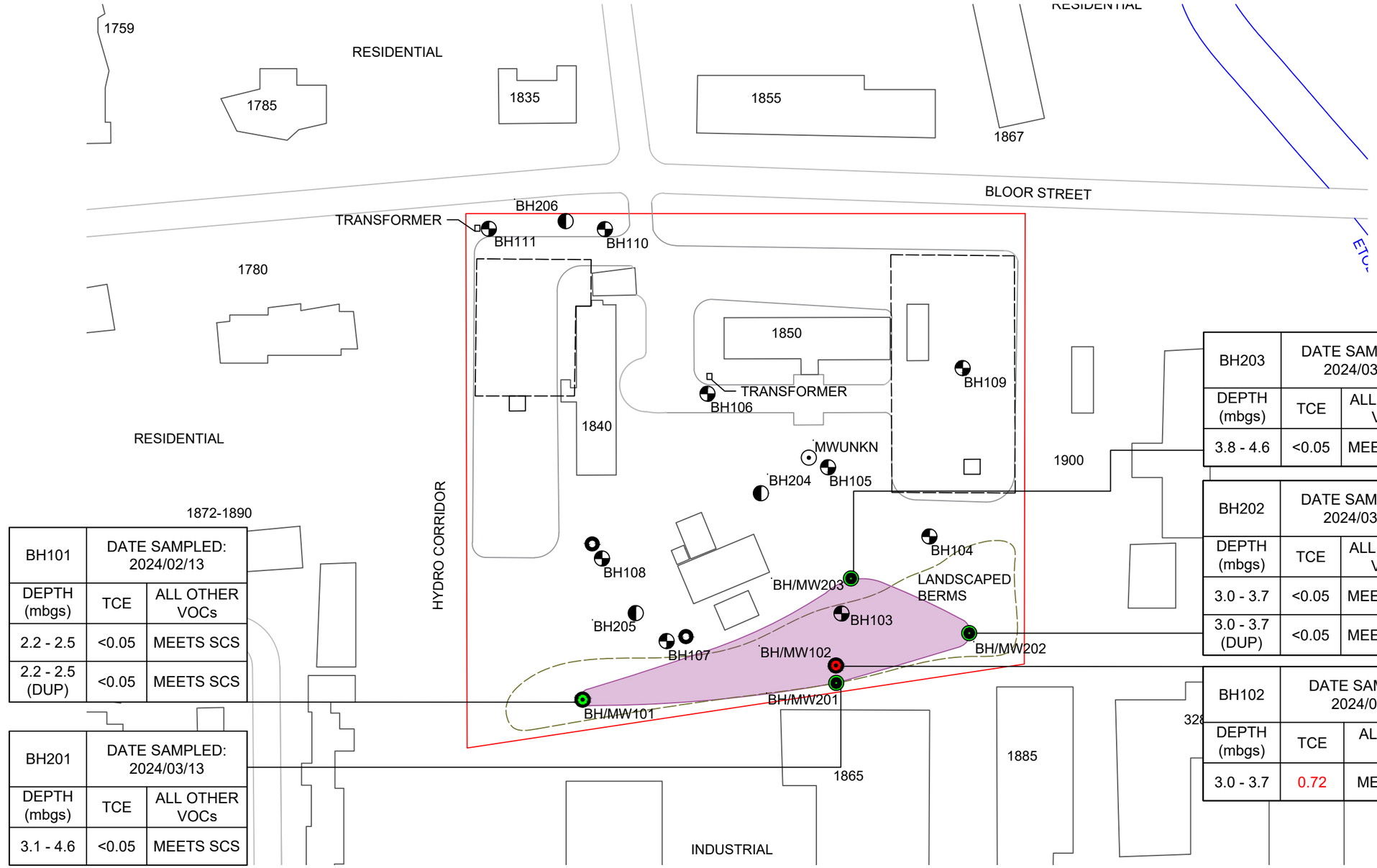

BH101	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
2.2 - 2.5	<0.05	MEETS SCS
2.2 - 2.5 (DUP)	<0.05	MEETS SCS

BH201	DATE SAMPLED: 2024/03/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.1 - 4.6	<0.05	MEETS SCS

BH203	DATE SAMPLED: 2024/03/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.8 - 4.6	<0.05	MEETS SCS

BH202	DATE SAMPLED: 2024/03/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.0 - 3.7	<0.05	MEETS SCS
3.0 - 3.7 (DUP)	<0.05	MEETS SCS

BH102	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.0 - 3.7	0.72	MEETS SCS

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- SAMPLE MEETS MECP TABLE 3 RPI SCS
- SAMPLE EXCEEDS MECP TABLE 3 RPI SCS

SCS SITE CONDITION STANDARDS

VOCs VOLATILE ORGANIC COMPOUNDS

- APPROXIMATE EXTENT OF SOIL THAT EXCEEDS TABLE 3 RPI SCS

PARAMETER		TABLE 3 RPI SCS	UNITS
TCE	TRICHLOROETHYLENE	0.52	ug/g

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
SOIL ANALYTICAL RESULTS - VOCs

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	7
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg

TRUE NORTH

SITE NORTH

RESIDENTIAL

1785

1835

1855

1867

BLOOR STREET

BH206

TRANSFORMER

BH111

BH110

1780

1850

TRANSFORMER

BH106

BH109

1840

MWUNKN

BH105

1900

BH204

RESIDENTIAL

1872-1890

HYDRO CORRIDOR

BH108

BH104

BH/MW203

LANDSCAPED BERMS

BH205

BH103

BH107

BH/MW102

BH/MW202

BH/MW201

BH/MW101

1865

1885

3289

INDUSTRIAL

3280

BH110	DATE SAMPLED: 2024/02/15
DEPTH (mbgs)	PAHs
0 - 0.8	MEETS SCS

BH105	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	PAHs
0.1 - 0.2	MEETS SCS
0.1 - 0.2 (DUP)	MEETS SCS

BH103	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	PAHs
0.8 - 1.5	MEETS SCS

SCALE

0 20 40 60 80 100 m

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- SAMPLE MEETS MECP TABLE 3 RPI SCS

SCS SITE CONDITION STANDARDS

PAHs POLYCYCLIC AROMATIC HYDROCARBONS

RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
SOIL ANALYTICAL RESULTS - PAHs

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

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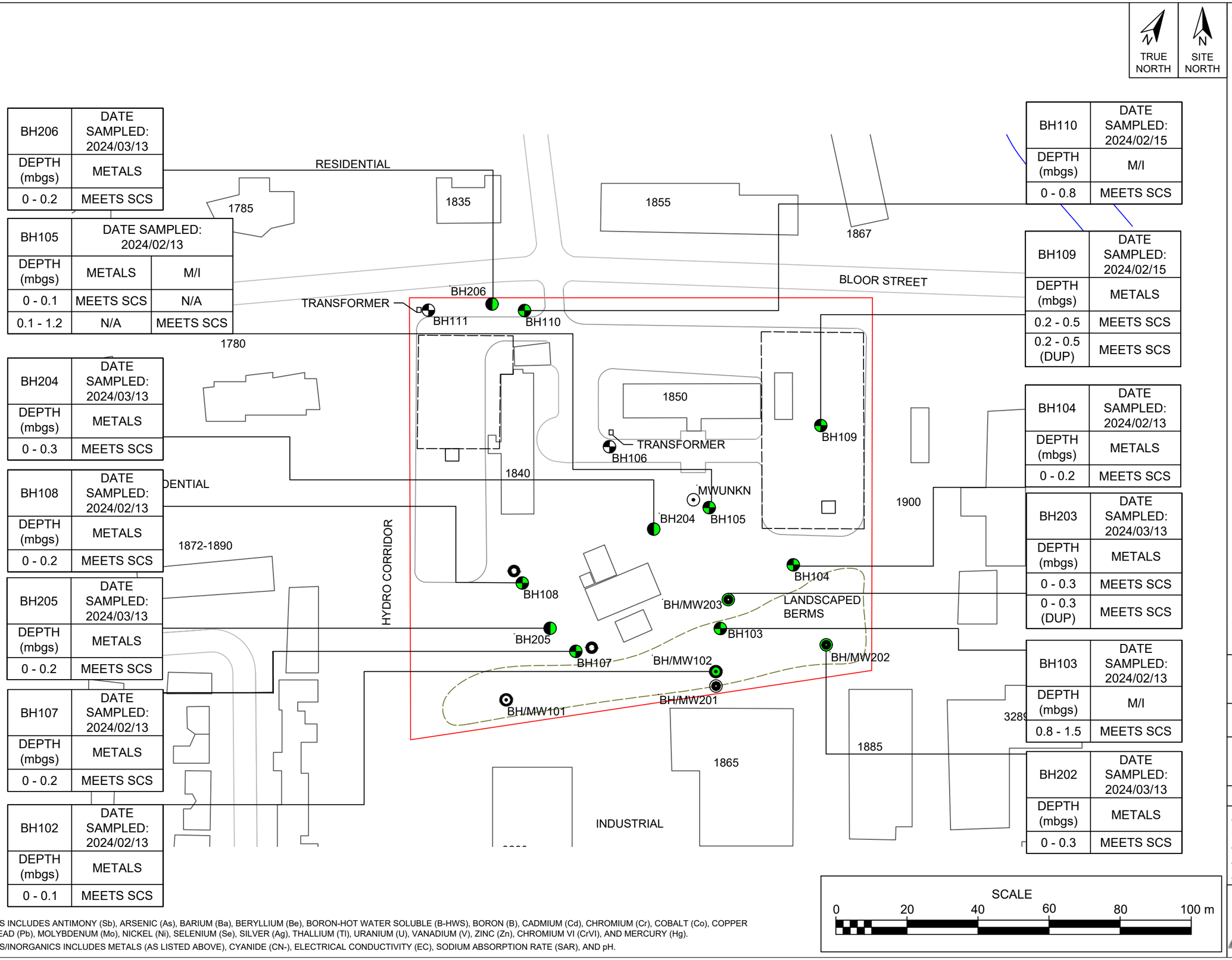


BH206	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	METALS
0 - 0.2	MEETS SCS

BH105	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	METALS	M/I
0 - 0.1	MEETS SCS	N/A
0.1 - 1.2	N/A	MEETS SCS

BH204	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	METALS
0 - 0.3	MEETS SCS

BH108	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	METALS
0 - 0.2	MEETS SCS

BH205	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	METALS
0 - 0.2	MEETS SCS

BH107	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	METALS
0 - 0.2	MEETS SCS

BH102	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	METALS
0 - 0.1	MEETS SCS

BH110	DATE SAMPLED: 2024/02/15
DEPTH (mbgs)	M/I
0 - 0.8	MEETS SCS

BH109	DATE SAMPLED: 2024/02/15
DEPTH (mbgs)	METALS
0.2 - 0.5	MEETS SCS
0.2 - 0.5 (DUP)	MEETS SCS

BH104	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	METALS
0 - 0.2	MEETS SCS

BH203	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	METALS
0 - 0.3	MEETS SCS
0 - 0.3 (DUP)	MEETS SCS

BH103	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	M/I
0.8 - 1.5	MEETS SCS

BH202	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	METALS
0 - 0.3	MEETS SCS

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- SAMPLE MEETS MECP TABLE 3 RPI SCS

SCS SITE CONDITION STANDARDS
M/I METALS AND INORGANICS
N/A NOT ANALYZED
RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL

NOTE:

METALS INCLUDES ANTIMONY (Sb), ARSENIC (As), BARIUM (Ba), BERYLLIUM (Be), BORON-HOT WATER SOLUBLE (B-HWS), BORON (B), CADMIUM (Cd), CHROMIUM (Cr), COBALT (Co), COPPER (Cu), LEAD (Pb), MOLYBDENUM (Mo), NICKEL (Ni), SELENIUM (Se), SILVER (Ag), THALLIUM (Tl), URANIUM (U), VANADIUM (V), ZINC (Zn), CHROMIUM VI (CrVI), AND MERCURY (Hg).

METALS/INORGANICS INCLUDES METALS (AS LISTED ABOVE), CYANIDE (CN-), ELECTRICAL CONDUCTIVITY (EC), SODIUM ABSORPTION RATE (SAR), AND pH.

SCALE
0 20 40 60 80 100 m

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

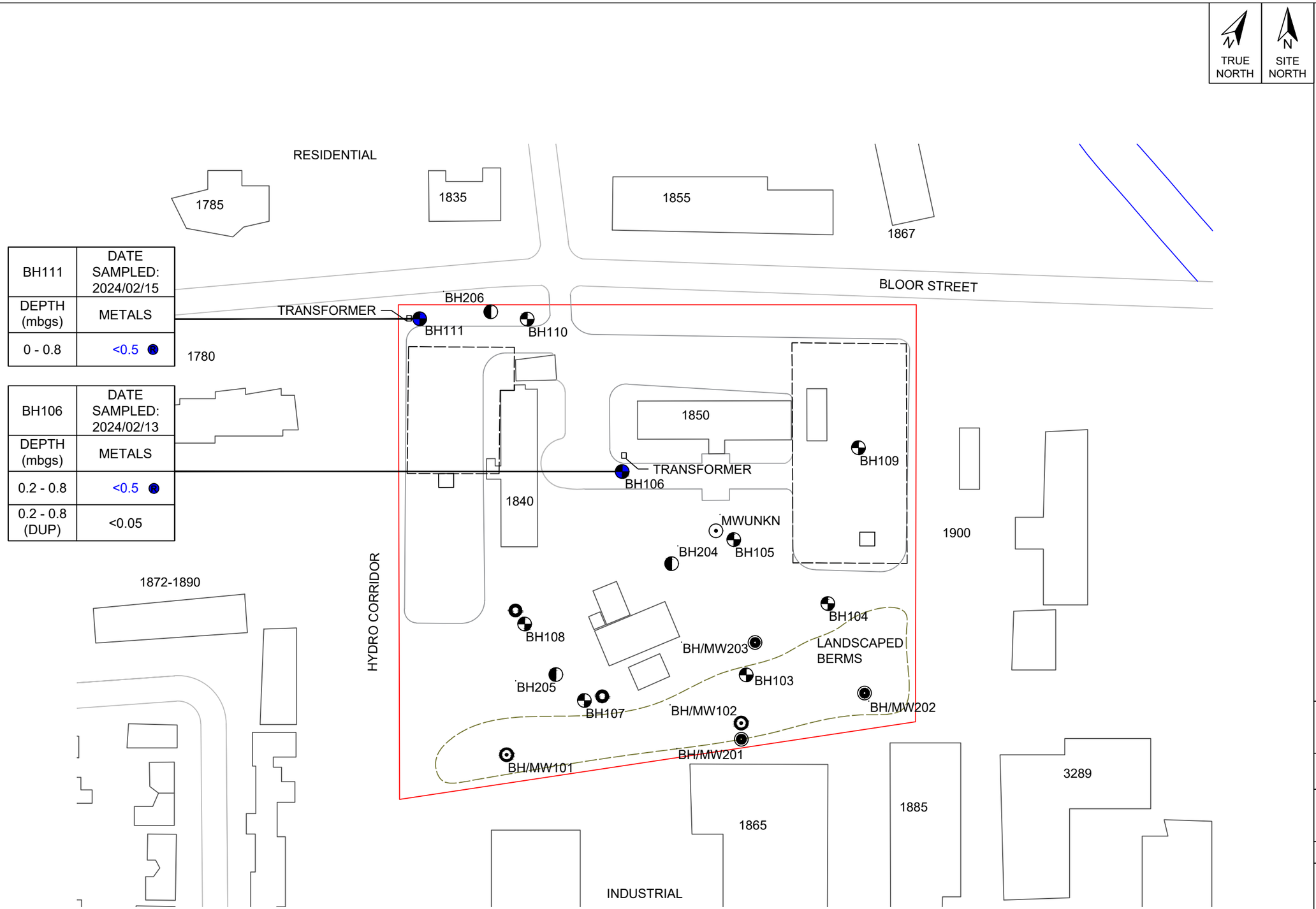
TITLE:
SOIL ANALYTICAL RESULTS -
METALS AND INORGANICS

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	9
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg



BH111	DATE SAMPLED: 2024/02/15
DEPTH (mbgs)	METALS
0 - 0.8	<0.5 (R)

BH106	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	METALS
0.2 - 0.8	<0.5 (R)
0.2 - 0.8 (DUP)	<0.05

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- SAMPLE MEETS MECP TABLE 3 RPI SCS
- (R) REJECTED DATA (* SEE NOTE)

SCS SITE CONDITION STANDARDS

PCBs POLYCHLORINATED BIPHENYLS

RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL

PARAMETER		TABLE 3 RPI SCS	UNITS
PCBs	POLYCHLORINATED BIPHENYLS	0.35	ug/g

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
SOIL ANALYTICAL RESULTS -
PCBs

CLIENT:
RANEE MANAGEMENT

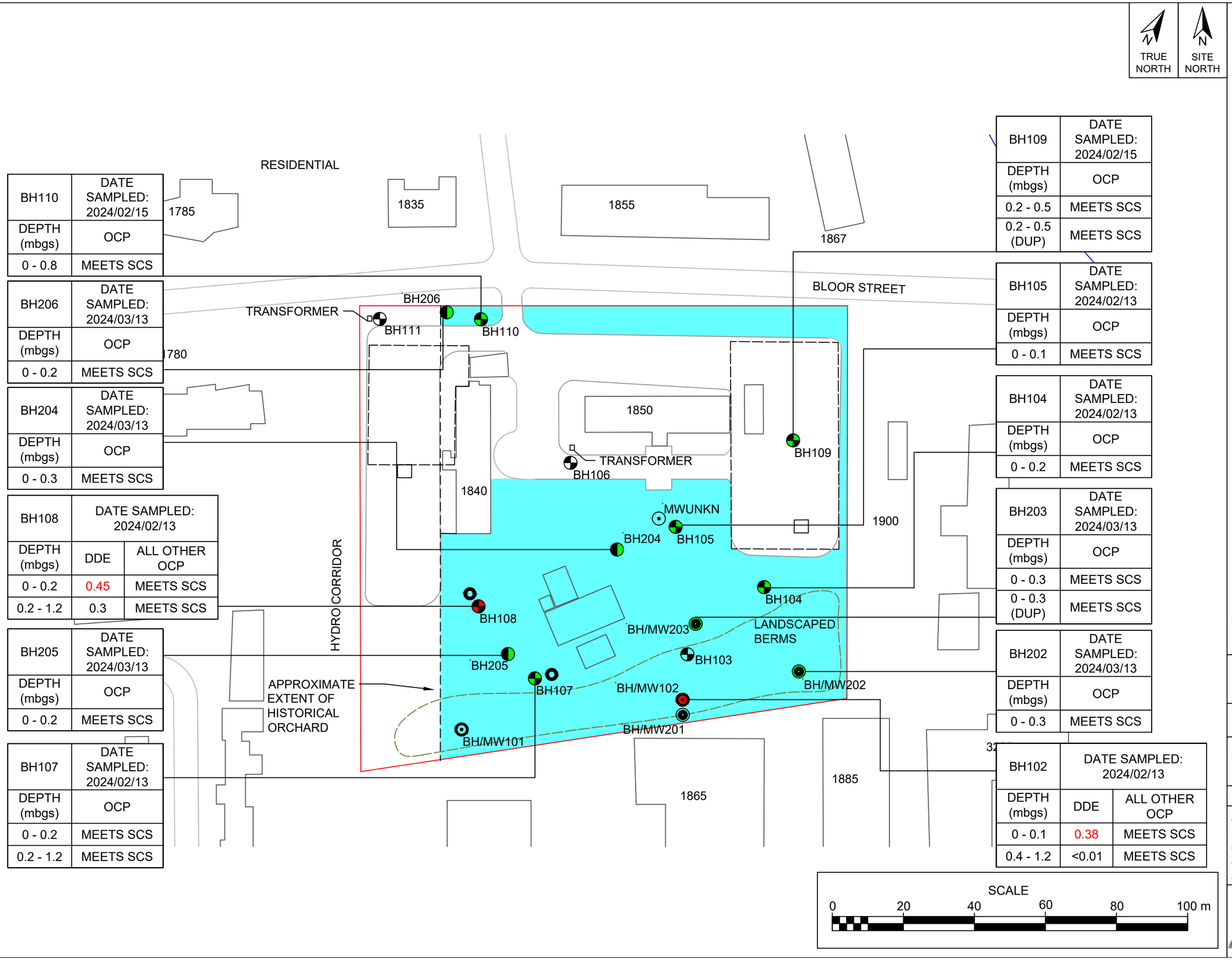
LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	10
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg

SCALE
0 20 40 60 80 100 m

NOTE: (R)
ANY HALOGENATED COMPOUNDS CAN CAUSE INTERFERENCES WITH THE ELECTRON CAPTURE DETECTOR. ALTHOUGH THE MOST COMMON INTERFERENCE WILL COME FROM PHTHALATE ESTERS, AS THESE COMPOUNDS GENERALLY APPEAR IN THE CHROMATOGRAM AS A LARGE PEAK. COMMON PLASTICS CONTAIN VARYING AMOUNTS OF PHTHALATES WHICH ARE WHICH ARE EASILY EXTRACTED OR LEACHED FROM THE MATERIAL. IN THE CASE OF THSES SAMPLES, THE INTERFERENCE APPEARS TO BE COMING FROM SOME HALOGENATED COMPOUNDS OF AN UNKNOWN SOURCE



BH110	DATE SAMPLED: 2024/02/15
DEPTH (mbgs)	OCP
0 - 0.8	MEETS SCS

BH206	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.2	MEETS SCS

BH204	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.3	MEETS SCS

BH108	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	DDE	ALL OTHER OCP
0 - 0.2	0.45	MEETS SCS
0.2 - 1.2	0.3	MEETS SCS

BH205	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.2	MEETS SCS

BH107	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	OCP
0 - 0.2	MEETS SCS
0.2 - 1.2	MEETS SCS

BH109	DATE SAMPLED: 2024/02/15
DEPTH (mbgs)	OCP
0.2 - 0.5	MEETS SCS
0.2 - 0.5 (DUP)	MEETS SCS

BH105	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	OCP
0 - 0.1	MEETS SCS

BH104	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	OCP
0 - 0.2	MEETS SCS

BH203	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.3	MEETS SCS
0 - 0.3 (DUP)	MEETS SCS

BH202	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.3	MEETS SCS

BH102	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	DDE	ALL OTHER OCP
0 - 0.1	0.38	MEETS SCS
0.4 - 1.2	<0.01	MEETS SCS

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- SAMPLE MEETS MECP TABLE 3 RPI SCS
- SAMPLE EXCEEDS MECP TABLE 3 RPI SCS

SCS SITE CONDITION STANDARDS
OCPs ORGANPCHLORINE PESTICIDES
DDE DICHLORODIPHEYLDICHLOROETHYLENE
RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL

- APPROXIMATE EXTENT OF SOIL THAT EXCEEDS TABLE 3 RPI SCS

PARAMETER	TABLE 3 RPI SCS	UNITS
DDE	0.33	ug/g

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
SOIL ANALYTICAL RESULTS - OCPs

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	11
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg

TRUE NORTH

SITE NORTH

RESIDENTIAL

1785

1835

1855

1867

BLOOR STREET

BH206

TRANSFORMER

BH111

BH110

1780

1850

TRANSFORMER

BH106

BH109

1840

MWUNKN

BH204

BH105

RESIDENTIAL

1872-1890

HYDRO CORRIDOR

1900

BH104

BH108

BH/MW203

LANDSCAPED BERMS

BH205

BH103

BH107

BH/MW102

BH/MW202

BH/MW201

BH/MW101

3289

1885

1865

INDUSTRIAL

3280

BH/MW102	Screen Depth 3.15 - 6.15 mbgs
DATE	PHCs & BTEX
2024/05/31	MEETS SCS

BH/MW101	Screen Depth 1.98 - 3.48 mbgs
DATE	PHCs & BTEX
2024/02/20	MEETS SCS
2024/02/20 (DUPLICATE)	MEETS SCS

BH/MW201	Screen Depth 6.55 - 9.55 mbgs
DATE	PHCs & BTEX
2024/03/20	MEETS SCS
2024/03/20 (DUPLICATE)	MEETS SCS

SCALE

0 20 40 60 80 100 m

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- SAMPLE MEETS MECP TABLE 3 RPI SCS

SCS SITE CONDITION STANDARDS

PHCs PETROLEUM HYDROCARBONS F1 TO F4

BTEX BENZENE, TOLUENE, ETHYLBENZENE, XYLENES

RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

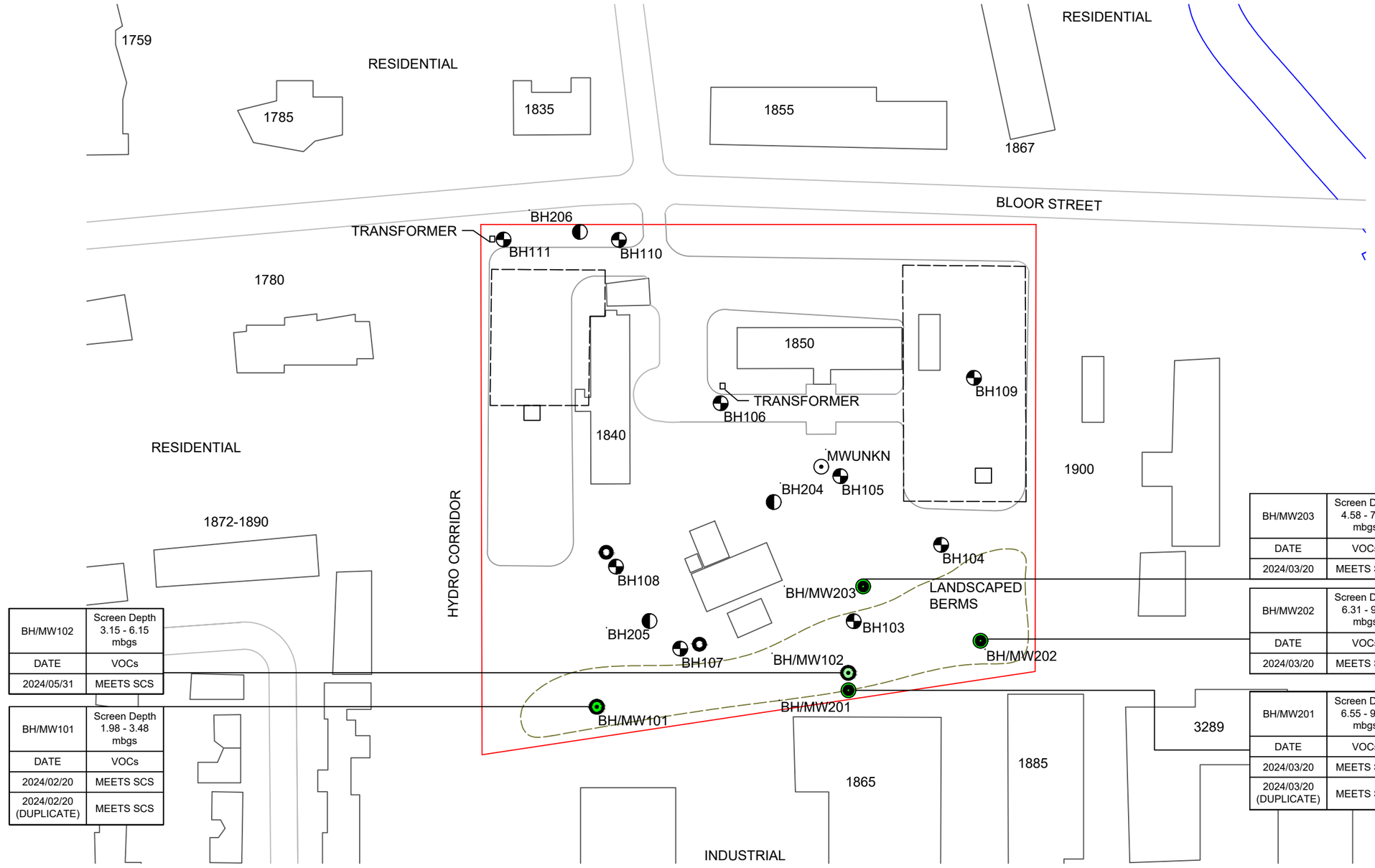
TITLE:
GROUNDWATER ANALYTICAL RESULTS -
PHCs F1 TO F4 INCLUDING BTEX

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	12
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg



LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- SAMPLE MEETS MECP TABLE 3 RPI SCS

SCS SITE CONDITION STANDARDS

VOCs VOLATILE ORGANIC COMPOUNDS

RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:
GROUNDWATER ANALYTICAL RESULTS - VOCs

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	13
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg

BH/MW102	Screen Depth 3.15 - 6.15 mbgs
DATE	METALS
2024/05/31	MEETS SCS

BH/MW101	Screen Depth 1.98 - 3.48 mbgs
DATE	METALS
2024/02/20	MEETS SCS
2024/02/20 (DUPLICATE)	MEETS SCS

BH/MW201	Screen Depth 6.55 - 9.55 mbgs
DATE	VOCs
2024/03/20	MEETS SCS
2024/03/20 (DUPLICATE)	MEETS SCS

LEGEND

- APPROXIMATE PHASE ONE ESA SITE BOUNDARY
- APPROXIMATE EXTENT OF UNDERGROUND PARKING
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY OTHERS (2019)
- DAMAGED MONITORING WELL
- BOREHOLE ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (FEBRUARY 2024)
- BOREHOLE ADVANCED BY G2S (MARCH 2024)
- BOREHOLE/GROUNDWATER MONITORING WELL ADVANCED BY G2S (MARCH 2024)
- SAMPLE MEETS MECP TABLE 3 RPI SCS

SCS SITE CONDITION STANDARDS

RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL

SCALE

0 20 40 60 80 100 m

NOTE:

METALS INCLUDES ANTIMONY (Sb), ARSENIC (As), BARIUM (Ba), BERYLLIUM (Be), BORON-HOT WATER SOLUBLE (B-HWS), BORON (B), CADMIUM (Cd), CHROMIUM (Cr), COBALT (Co), COPPER (Cu), LEAD (Pb), MOLYBDENUM (Mo), NICKEL (Ni), SELENIUM (Se), SILVER (Ag), THALLIUM (Tl), URANIUM (U), VANADIUM (V), ZINC (Zn), CHROMIUM VI (CrVI), AND MERCURY (Hg).

REFERENCE:
DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

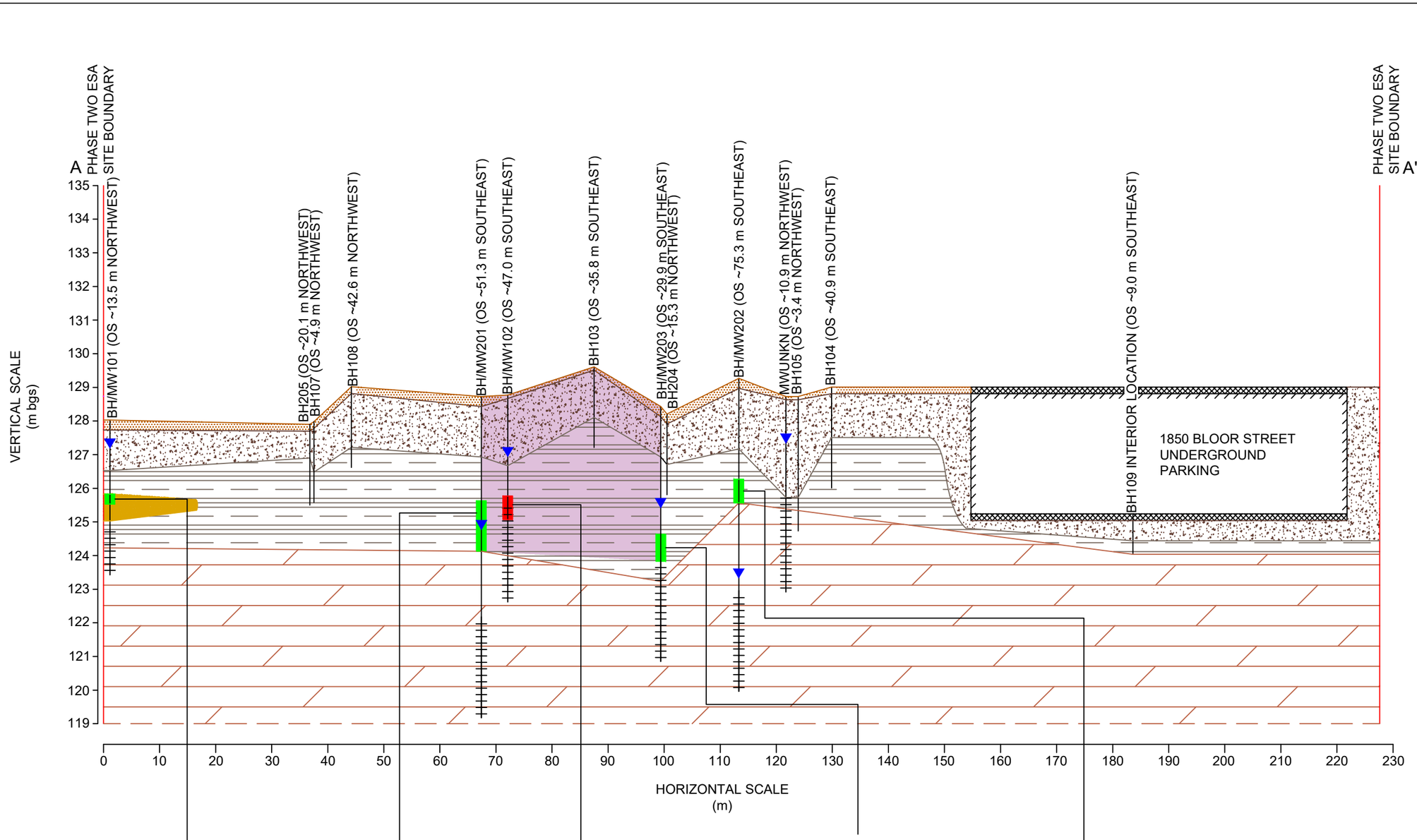
TITLE:
GROUNDWATER ANALYTICAL RESULTS - METALS

CLIENT:
RANEE MANAGEMENT

LOCATION:
1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	14
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg



BH101	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
2.2 - 2.5	<0.05	MEETS SCS
2.2 - 2.5 (DUP)	<0.05	MEETS SCS

BH201	DATE SAMPLED: 2024/03/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.1 - 4.6	<0.05	MEETS SCS

BH102	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.0 - 3.7	0.72	MEETS SCS

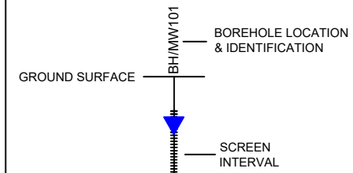
BH203	DATE SAMPLED: 2024/03/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.8 - 4.6	<0.05	MEETS SCS

BH202	DATE SAMPLED: 2024/03/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.0 - 3.7	<0.05	MEETS SCS
3.0 - 3.7 (DUP)	<0.05	MEETS SCS

LEGEND

- PAVEMENT STRUCTURE
- TOPSOIL
- FILL MATERIALS
- NATIVE (SILTY SAND)
- NATIVE (SAND)
- BEDROCK (WEATHERED SHALE)
- GROUNDWATER LEVEL
- OS OFFSET
- mbgs METRES BELOW GROUND SURFACE
- SCS SITE CONDITION STANDARDS
- SAMPLE MEETS MECP TABLE 3 RPI SCS
- SAMPLE EXCEEDS MECP TABLE 3 RPI SCS
- RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL
- VOCs VOLATILE ORGANIC COMPOUNDS
- APPROXIMATE EXTENT OF SOIL THAT EXCEEDS TABLE 3 RPI SCS

PARAMETER		TABLE 3 SCS	UNITS
TCE	TRICHLOROETHYLENE	0.52	ug/g



NOTE:

REFER TO ANALYTICAL RESULTS TABLE IN APPENDIX C FOR THE SCS & FULL RESULTS, INCLUDING PARAMETERS THAT MET THE SCS.

MEASURED GROUNDWATER ELEVATION FROM BH/MW102 WAS RECORDED ON MAY 31, 2024).

REFERENCE:

DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:

CROSS SECTION A-A' - SOIL ANALYTICAL RESULTS - VOCs

CLIENT:

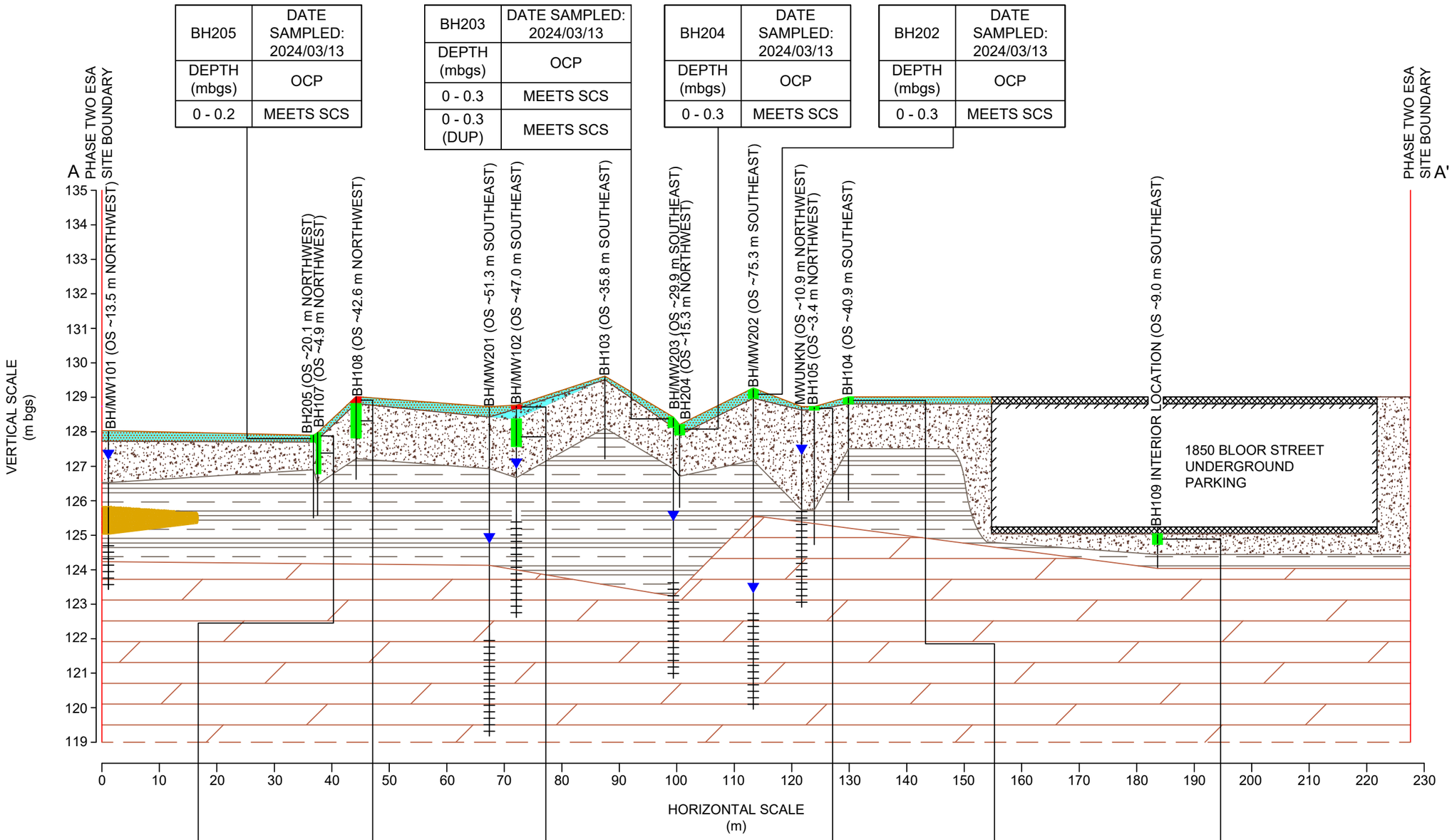
RANEE MANAGEMENT

LOCATION:

1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	15
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg



BH205	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.2	MEETS SCS

BH203	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.3	MEETS SCS
0 - 0.3 (DUP)	MEETS SCS

BH204	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.3	MEETS SCS

BH202	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.3	MEETS SCS

BH107	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	OCP
0 - 0.2	MEETS SCS
0.2 - 1.2	MEETS SCS

BH108	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	DDE	ALL OTHER OCP
0 - 0.2	0.45	MEETS SCS
0.2 - 1.2	0.3	MEETS SCS

BH102	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	DDE	ALL OTHER OCP
0 - 0.1	0.38	MEETS SCS
0.4 - 1.2	<0.01	MEETS SCS

BH105	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	OCP
0 - 0.1	MEETS SCS

BH104	DATE SAMPLED: 2024/02/13
DEPTH (mbgs)	OCP
0 - 0.2	MEETS SCS

BH109	DATE SAMPLED: 2024/02/15
DEPTH (mbgs)	OCP
0.2 - 0.5	MEETS SCS
0.2 - 0.5 (DUP)	MEETS SCS

LEGEND

- PAVEMENT STRUCTURE
- TOPSOIL
- FILL MATERIALS
- NATIVE (SILTY SAND)
- NATIVE (SAND)
- BEDROCK (WEATHERED SHALE)
- GROUNDWATER LEVEL
- OS OFFSET
- mbgs METRES BELOW GROUND SURFACE
- SCS SITE CONDITION STANDARDS
- SAMPLE MEETS MECP TABLE 3 RPI SCS
- SAMPLE EXCEEDS MECP TABLE 3 RPI SCS
- RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL
- OCP ORGANPCHLORINE PESTICIDES
- DDE DICHLORODIPHEYLDICHLOROETHYLENE
- APPROXIMATE EXTENT OF SOIL THAT EXCEEDS TABLE 3 RPI SCS

PARAMETER	TABLE 3 SCS	UNITS
DDE	0.33	ug/g

NOTE:

REFER TO ANALYTICAL RESULTS TABLE IN APPENDIX C FOR THE SCS & FULL RESULTS, INCLUDING PARAMETERS THAT MET THE SCS.

MEASURED GROUNDWATER ELEVATION FROM BH/MW102 WAS RECORDED ON MAY 31, 2024).

REFERENCE:

DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:

CROSS SECTION A-A' - SOIL ANALYTICAL RESULTS - OCPs

CLIENT:

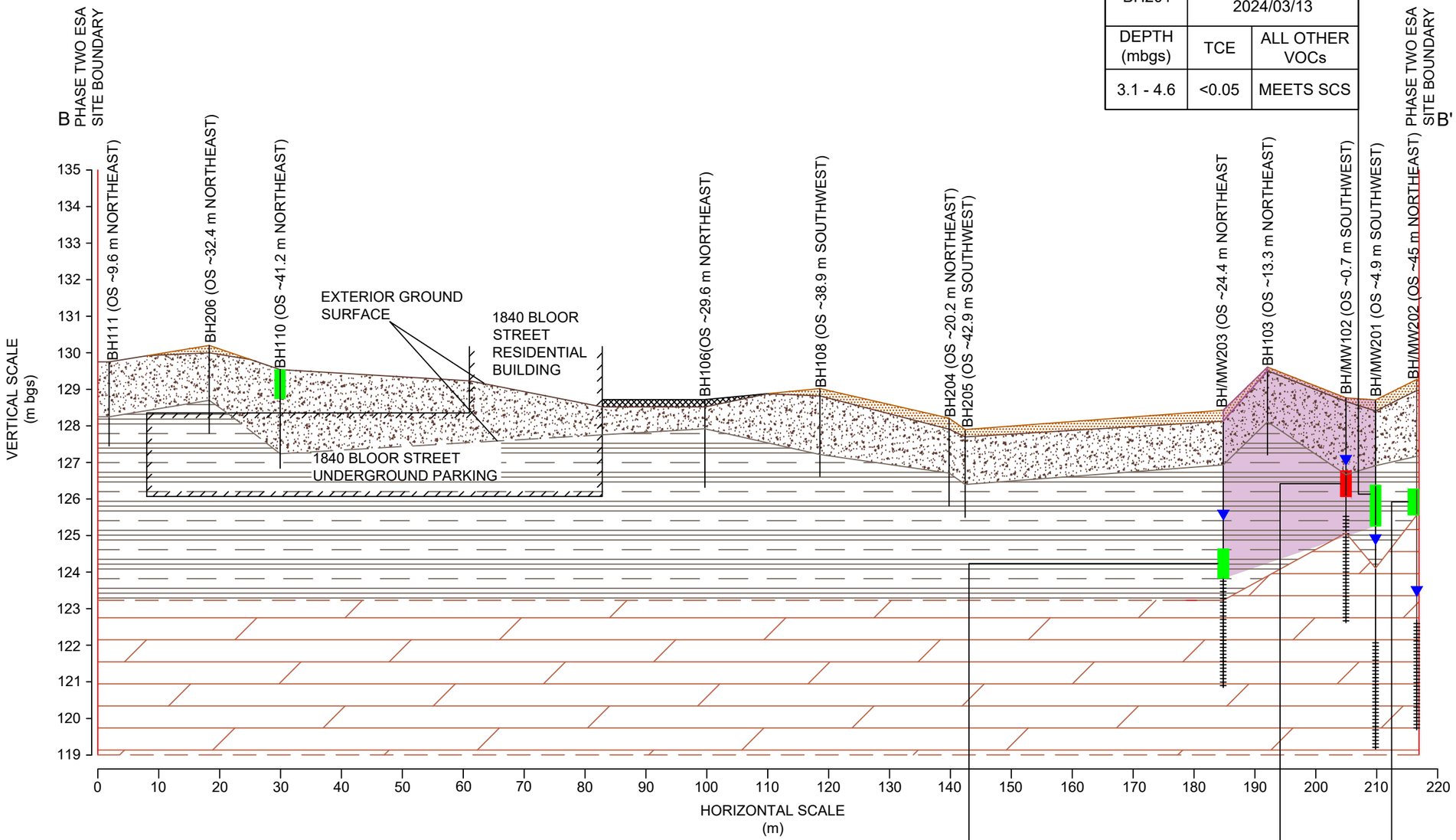
RANEE MANAGEMENT

LOCATION:

1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	16
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg



BH201	DATE SAMPLED: 2024/03/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.1 - 4.6	<0.05	MEETS SCS

BH203	DATE SAMPLED: 2024/03/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.8 - 4.6	<0.05	MEETS SCS

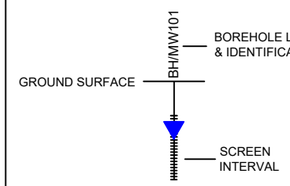
BH102	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.0 - 3.7	0.72	MEETS SCS

BH202	DATE SAMPLED: 2024/03/13	
DEPTH (mbgs)	TCE	ALL OTHER VOCs
3.0 - 3.7	<0.05	MEETS SCS
3.0 - 3.7 (DUP)	<0.05	MEETS SCS

LEGEND

- PAVEMENT STRUCTURE
- TOPSOIL
- FILL MATERIALS
- NATIVE (SILTY SAND)
- BEDROCK (WEATHERED SHALE)
- GROUNDWATER LEVEL
- OS OFFSET
- mbgs METRES BELOW GROUND SURFACE
- SCS SITE CONDITION STANDARDS
- SAMPLE MEETS MECP TABLE 3 RPI SCS
- SAMPLE EXCEEDS MECP TABLE 3 RPI SCS
- RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL
- VOCs VOLATILE ORGANIC COMPOUNDS
- APPROXIMATE EXTENT OF SOIL THAT EXCEEDS TABLE 3 RPI SCS

PARAMETER		TABLE 3 SCS	UNITS
TCE	TRICHLOROETHYLENE	0.52	ug/g



NOTE:

REFER TO ANALYTICAL RESULTS TABLE IN APPENDIX C FOR THE SCS & FULL RESULTS, INCLUDING PARAMETERS THAT MET THE SCS.

MEASURED GROUNDWATER ELEVATION FROM BH/MW102 WAS RECORDED ON MAY 31, 2024).

REFERENCE:

DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:

CROSS SECTION B-B' - SOIL ANALYTICAL RESULTS - VOCs

CLIENT:

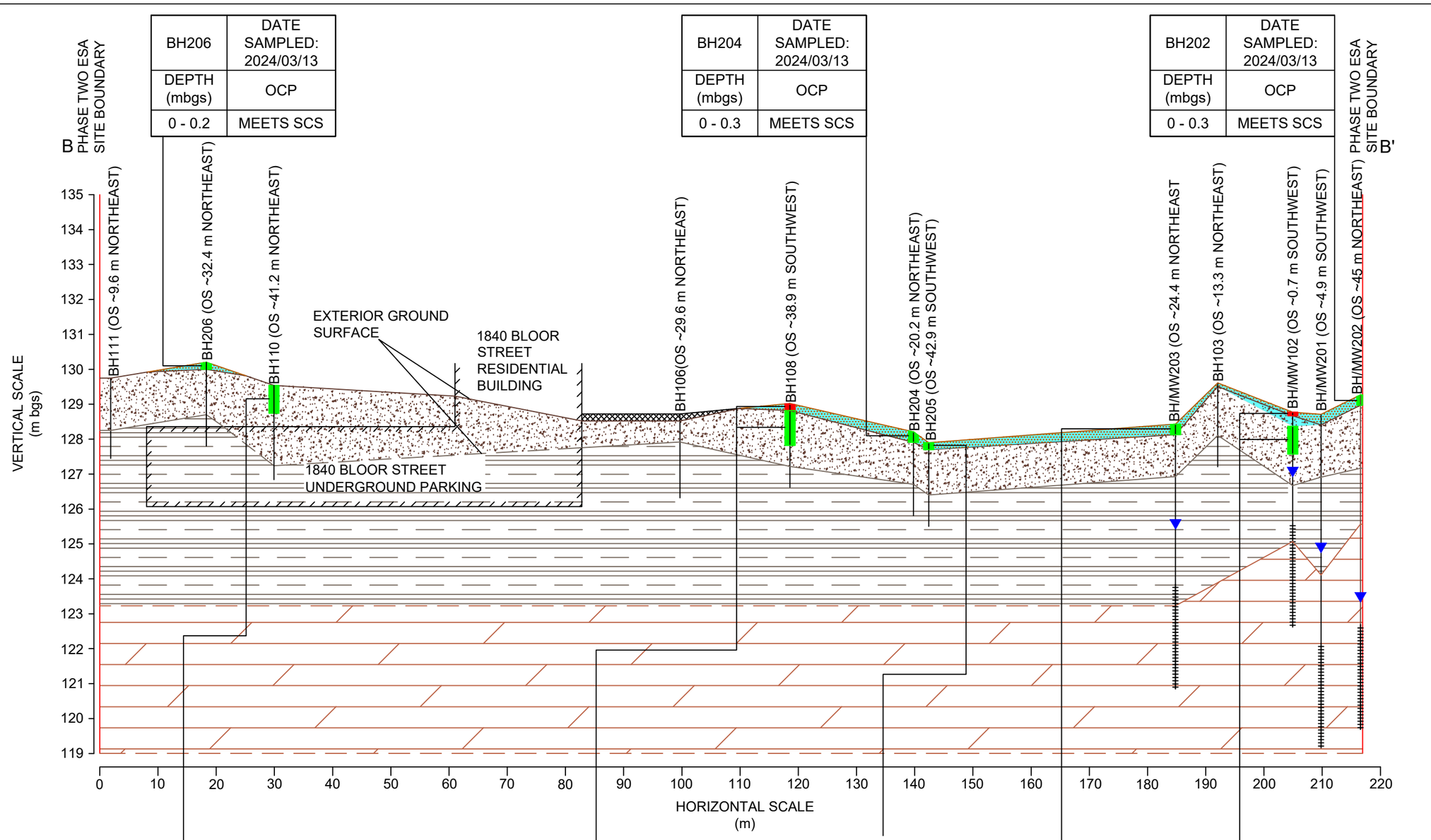
RANEE MANAGEMENT

LOCATION:

1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	17
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg



BH206	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.2	MEETS SCS

BH204	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.3	MEETS SCS

BH202	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.3	MEETS SCS

BH110	DATE SAMPLED: 2024/02/15
DEPTH (mbgs)	OCP
0 - 0.8	MEETS SCS

BH108	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	DDE	ALL OTHER OCP
0 - 0.2	0.45	MEETS SCS
0.2 - 1.2	0.3	MEETS SCS

BH205	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.2	MEETS SCS

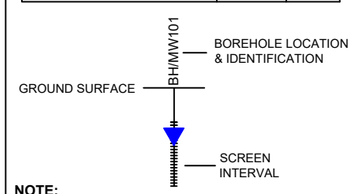
BH203	DATE SAMPLED: 2024/03/13
DEPTH (mbgs)	OCP
0 - 0.3	MEETS SCS
0 - 0.3 (DUP)	MEETS SCS

BH102	DATE SAMPLED: 2024/02/13	
DEPTH (mbgs)	DDE	ALL OTHER OCP
0 - 0.1	0.38	MEETS SCS
0.4 - 1.2	<0.01	MEETS SCS

LEGEND

- PAVEMENT STRUCTURE
- TOPSOIL
- FILL MATERIALS
- NATIVE (SILTY SAND)
- BEDROCK (WEATHERED SHALE)
- GROUNDWATER LEVEL
- OS OFFSET
- mbgs METRES BELOW GROUND SURFACE
- SCS SITE CONDITION STANDARDS
- SAMPLE MEETS MECP TABLE 3 RPI SCS
- SAMPLE EXCEEDS MECP TABLE 3 RPI SCS
- OCPs ORGANPCHLORINE PESTICIDES
- DDE DICHLORODIPHEYLDICHLOROETHYLENE
- RPI RESIDENTIAL/PARKLAND/INSTITUTIONAL
- APPROXIMATE EXTENT OF SOIL THAT EXCEEDS TABLE 3 RPI SCS

PARAMETER	TABLE 3 SCS	UNITS
DDE	0.33	ug/g



NOTE:

REFER TO ANALYTICAL RESULTS TABLE IN APPENDIX C FOR THE SCS & FULL RESULTS, INCLUDING PARAMETERS THAT MET THE SCS.

MEASURED GROUNDWATER ELEVATION FROM BH/MW102 WAS RECORDED ON MAY 31, 2024).

REFERENCE:

DRAWING REPRODUCED USING CITY OF MISSISSAUGA INTERACTIVE MAP

TITLE:

CROSS SECTION B-B' - SOIL ANALYTICAL RESULTS - OCPs

CLIENT:

RANEE MANAGEMENT

LOCATION:

1840 AND 1850 BLOOR STREET, MISSISSAUGA, ONTARIO

PROJECT NO.: G2S24012B

DRAWING:	18
SCALE:	AS SHOWN
DATE:	JUNE 2024
DRAWN BY:	RL
FILE NAME:	G2S24012BP2.dwg

Appendix B:
Borehole Logs

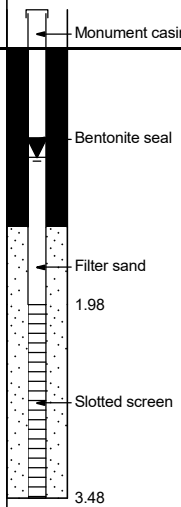
BH/MW NUMBER 101

G2S Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-13 **COMPLETED** 24-2-13
GROUND ELEVATION 128.03 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)
	0.3 TOPSOIL: Trace organics, brown.	127.73	S1	DP	0/5
1	FILL/REWORKED NATIVE: Silty sand, trace gravel, brown to dark brown.		S2	DP	55/3
				NR	
	1.5	126.53			
2	SILTY SAND: Light brown, wet.		S3	DP	25/1
	2.2	125.83	S4	DP	25/0
	Grey at 2.1 m bgs.		S5	DP	0/0
3	SAND: Brown, wet.			NR	
	3.0	125.03			
4	SILTY SAND: Brown/grey.		S6	DP	0/0
	3.8	124.23			
	WEATHERED SHALE: Grey. No further sampling. Advanced to 4.6 m bgs with solid stem augers for monitoring well installation.		S7	DP	0/0
	4.6	123.43			

WELL DIAGRAM



Borehole terminated at 4.6 m.

Water Level Readings:

Date	Depth (m)	Elev. (m)
2024-02-20	1.00	127.03
2024-03-20	0.84	127.19

BH/MW NUMBER 102

Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-13 **COMPLETED** 24-2-13
GROUND ELEVATION 128.77 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)
0.1	TOPSOIL: Trace organics, brown.	128.67	S1	DP	0/0
			S2	DP	0/0
	FILL/REWORKED NATIVE: Silty sand, trace gravel, brown to dark brown.				
	Sand, trace gravel, brown at 0.4 m bgs.		S3	DP	0/0
				NR	
2.1		126.67	S4	DP	0/1
	SILTY SAND: Brown/grey.		S5	DP	0/0
3.7		125.07	S6	DP	0/0
	WEATHERED SHALE: Grey. No further sampling. Advanced to 6.15 m bgs with solid stem augers for monitoring well installation.			AU	
6.2		122.62			
	Borehole terminated at 6.2 m.				

WELL DIAGRAM: Monument casing; Bentonite seal; Filter sand; 3.15; Slotted screen; 6.15

Water Level Readings:

Date	Depth (m)	Elev. (m)
2024-05-31	1.85	126.92

BOREHOLE NUMBER 103

Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-13 **COMPLETED** 24-2-13
GROUND ELEVATION 129.61 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
	0.1 TOPSOIL: Trace organics, brown.	129.51		S1	DP	20/0	
	FILL/REWORKED NATIVE: Silty sand, trace gravel, brown/grey.			S2	DP	50/3	
1				S3	DP	70/13	
	Grey/green, trace organics at 0.8 m bgs.						
	1.5 SILTY SAND: Brown.	128.11					
2				S4	DP	60/2	
	2.4	127.21					
	Borehole terminated at 2.4 m.						

BOREHOLE NUMBER 104

Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-13 **COMPLETED** 24-2-13
GROUND ELEVATION 129.01 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
	0.2 TOPSOIL: Trace organics, brown.	128.81		S1	DP	60/10	
1	FILL/REWORKED NATIVE: Silty sand, trace gravel, and organics, brown/grey.			S2	DP	30/1	
	1.5	127.51			NR		
2	SILTY SAND: Brown.			S3	DP	45/1	
3	3.0	126.01		S4	DP	60/6	

Borehole terminated at 3.0 m.

BOREHOLE NUMBER 105

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-13 **COMPLETED** 24-2-13
GROUND ELEVATION 128.73 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
	0.1 TOPSOIL: Trace organics, brown.	128.63		S1	DP	55/4	
1	FILL/REWORKED NATIVE: Silty sand, trace clay, gravel, organics, shale, and wood debris, brown/grey to black.			S2	DP	40/1	
					NR		
2				S3	DP	70/40	
3	3.0	125.73		S4	DP	70/43	
	SILTY SAND: Trace stone, brown.			S5	DP	20/0	
4	4.0	124.73					

Borehole terminated at 4.0 m.

BOREHOLE NUMBER 106

Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-13 **COMPLETED** 24-2-13
GROUND ELEVATION 128.72 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
	0.2 ASPHALT: ~100 mm GRANULAR: ~50 mm	128.52					
	FILL: Silty sand, some clay, trace gravel, dark brown/grey.			S1		65/7	
	0.8	127.92					
1	SILTY SAND: Brown, wet.			S2		50/4	
2				S3		60/3	
	2.4	126.32					

Borehole terminated at 2.4 m.

BOREHOLE NUMBER 107

Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-13 **COMPLETED** 24-2-13
GROUND ELEVATION 127.98 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
	0.2 TOPSOIL: Trace organics, brown.	127.78		S1	DP	30/0	
1	FILL/REWORKED NATIVE: Silty sand, trace clay, and gravel, brown/grey.			S2	DP	55/2	
	1.5	126.48			NR		
2	SILTY SAND: Brown, wet.			S3	DP	85/21	
	2.4	125.58					

Borehole terminated at 2.4 m.

BOREHOLE NUMBER 108

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-13 **COMPLETED** 24-2-13
GROUND ELEVATION 129.02 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
	0.2 TOPSOIL: Trace organics, brown.	128.82		S1	DP	50/3	
1	FILL/REWORKED NATIVE: Silty sand, trace clay, and gravel, brown/dark brown.			S2	DP	50/4	
					NR		
	1.8	127.22		S3	DP	55/4	
2	SILTY SAND: Brown, wet.			S4	DP	55/4	
	2.4	126.62					

Borehole terminated at 2.4 m.

BOREHOLE NUMBER 109

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-15 **COMPLETED** 24-2-15
GROUND ELEVATION 125.24 m
DRILLING CONTRACTOR Sonic Soil Sampling Inc.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD Pionjar
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
	0.2 CONCRETE: ~200 mm GRANULAR: ~20 mm	125.04					
	FILL: Sand, brown.			S1	DP	10/0	
				S2	DP	5/0	
	0.8	124.44			NR		
1	SILTY SAND: Grey.			S3	DP	0/0	
	1.2	124.04					
	Borehole terminated at 1.2 m.						

BOREHOLE NUMBER 110

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-15 **COMPLETED** 24-2-15
GROUND ELEVATION 129.54 m
DRILLING CONTRACTOR Sonic Soil Sampling Inc.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD Pionjar
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
1	FILL/REWORKED NATIVE: Silty sand, trace clay, organics, and gravel, brown/grey.			S1	DP	0/0	
				S2	DP	0/3	
2				S3	DP	40/2	
2.3		127.24		S4	DP	45/1	
2.7	SILTY SAND: Grey.	126.84					

Borehole terminated at 2.7 m.

BOREHOLE NUMBER 111

Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-2-15 **COMPLETED** 24-2-15
GROUND ELEVATION 129.75 m
DRILLING CONTRACTOR Sonic Soil Sampling Inc.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD Pionjar
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
1	FILL/REWORKED NATIVE: Silty sand, trace clay, organics, and gravel, brown/grey.			S1	DP	5/0	
				S2	DP	0/0	
1.5		128.25			NR		
2	SILTY SAND: Trace stone, grey/brown, wet.			S3	DP	0/0	
2.3		127.45					

Borehole terminated at 2.3 m.

BH/MW NUMBER 201

G2S Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-3-13 **COMPLETED** 24-3-13
GROUND ELEVATION 128.71 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)
0.3	TOPSOIL: Trace organics, brown.	128.41	S1	DP	10/1
	FILL/REWORKED NATIVE: Silty sand, brown.		S2	DP	15/1
	Sand, light brown at 0.6 m bgs.		S3	DP	5/1
				NR	
1.8		126.91	S4	DP	0/0
	SILTY SAND: Brown/grey.		S5	DP	0/1
	Grey at 2.4 m bgs.		S6	DP	0/39
				NR	
	Sand seam, wet at 3.0 m bgs.		S7	DP	10/16
			S8	DP	10/56
4.6		124.11			
	WEATHERED SHALE: Grey. No further sampling. Advanced to 9.55 m bgs with solid stem augers for monitoring well installation.			AU	
9.6		119.16			
	Borehole terminated at 9.6 m.				

WELL DIAGRAM: Monument casing; Bentonite seal; Filter sand; 6.55; Slotted screen; 9.55

Water Level Readings:

Date	Depth (m)	Elev. (m)
2024-03-20	3.96	124.75

BH/MW NUMBER 202

G2S Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-3-13 **COMPLETED** 24-3-13
GROUND ELEVATION 129.27 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)
0.3	TOPSOIL: Trace organics, brown.	128.97	S1	DP	0/1
	FILL/REWORKED NATIVE: Silty sand, trace gravel, brown.		S2	DP	40/1
1				NR	
	Sand, brown at 1.5 m bgs.		S3	DP	35/4
2.1		127.17			
	SILTY SAND: Brown.		S4	DP	40/4
3	Brown/grey at 3.0 m bgs.		S5	DP	30/3
3.7		125.57			
4	WEATHERED SHALE: Grey. No further sampling. Advanced to 9.55 m bgs with solid stem augers for monitoring well installation.		S6	DP	15/4
5					
6					
7				AU	
8					
9					
9.3		119.96			

WELL DIAGRAM: Monument casing; Bentonite seal; Filter sand; 6.31; Slotted screen; 9.31

Borehole terminated at 9.3 m.

Water Level Readings:

Date	Depth (m)	Elev. (m)
2024-03-20	5.94	123.33

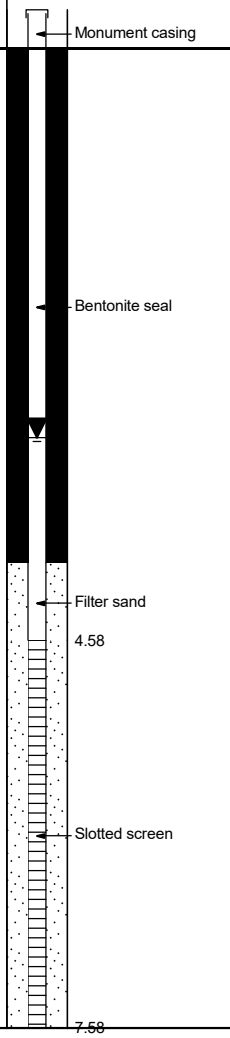
2021 G2S ENVIRO BH LOG 1840 & 1850 BLOOR STREET LOGS.GPJ G2S 2021 BH DATA TEMPLATE.GDT 24-6-14

BH/MW NUMBER 203

G2S Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-3-13 **COMPLETED** 24-3-13
GROUND ELEVATION 128.43 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)
0.3	TOPSOIL: Trace organics, brown.	128.13	S1	DP	0/0
	FILL/REWORKED NATIVE: Silty sand, brown/dark brown.		S2	DP	0/0
1.5		126.93		NR	
	SILTY SAND: Trace stone, brown.		S3	DP	0/2
			S4	DP	0/4
			S5	DP	0/0
			S6	DP	0/0
	Brown/grey at 4.6 m bgs.		S7	DP	0/0
5.2		123.23			
	WEATHERED SHALE: Grey. No further sampling.			AU	
7.6		120.85			



Borehole terminated at 7.6 m.

Water Level Readings:

Date	Depth (m)	Elev. (m)
2024-03-20	3.01	125.42

BOREHOLE NUMBER 204

Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-3-13 **COMPLETED** 24-3-13
GROUND ELEVATION 128.21 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
0.3	TOPSOIL: Trace organics, brown.	127.91		S1	DP	0/0	
1	FILL/REWORKED NATIVE: Silty sand, trace gravel, brown/grey.			S2	DP	0/0	
1.5		126.71					
2	SILTY SAND: Trace stone, brown.			S3	DP	0/0	
2.4		125.81					
	Borehole terminated at 2.4 m.						

BOREHOLE NUMBER 205

Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-3-13 **COMPLETED** 24-3-13
GROUND ELEVATION 127.90 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
	0.2 TOPSOIL: Trace organics, brown.	127.70		S1	DP	0/0	
1	FILL/REWORKED NATIVE: Silty sand, trace gravel, brown/grey.			S2	DP	0/0	
	1.5	126.40			NR		
2	SILTY SAND: Brown/grey.			S3	DP	0/0	
	2.4	125.50					

Borehole terminated at 2.4 m.

BOREHOLE NUMBER 206

Consulting Inc.

CLIENT Ranee Management
PROJECT NAME Phase Two ESA
PROJECT NUMBER G2S24012B
PROJECT LOCATION 1840 and 1850 Bloor Street, Mississauga
DATE STARTED 24-3-13 **COMPLETED** 24-3-13
GROUND ELEVATION 130.23 m
DRILLING CONTRACTOR Ace Environmental Drilling Ltd.
LOGGED BY RL **CHECKED BY** GB
DRILLING METHOD 7822 GeoProbe
NOTES

DEPTH (m)	MATERIAL DESCRIPTION	ELEVATION (m)	GRAPHIC LOG	NUMBER	TYPE	SOIL GAS READINGS HEX/IBL (ppm)	WELL DIAGRAM
	0.2 TOPSOIL: Trace organics, brown.	130.03		S1	DP	0/0	
1	FILL/REWORKED NATIVE: Silty sand, trace gravel, brown/grey.			S2	DP	0/0	
	1.5	128.73			NR		
2	SILTY SAND: Trace stone, brown/grey.			S3	DP	0/0	
	2.4	127.83					

Borehole terminated at 2.4 m.

Appendix C:
Analytical Results Tables

Table 1: Soil Quality Results
Petroleum Hydrocarbons (F1-F4) and BTEX

Parameter	Unit	*Table 3 SCS RPI Property Use	Sample Identification						
			BH101 S5	BH112 S5 (Duplictae of BH101 S5)	BH102 S6	BH105 S4	BH106 S1	BH107 S3	BH111 S1
Date Sampled			**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**15-Feb-24**
Depth	***mbgs***		***2.2 - 2.5***	***2.2 - 2.5***	***3.0 - 3.7***	***2.4 - 3.0***	***0.2 - 0.8***	***1.5 - 2.4***	***0 - 0.8***
Benzene	µg/g	0.17	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ethylbenzene	µg/g	15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Toluene	µg/g	6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes	µg/g	25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.28
Petroleum Hydrocarbons F1	µg/g	65	<7	<7	<7	<7	<7	<7	<7
Petroleum Hydrocarbons F2	µg/g	150	<4	<4	<4	<4	<4	<4	<4
Petroleum Hydrocarbons F3	µg/g	1300	<8	87	143	<8	<8	<8	<8
Petroleum Hydrocarbons F4	µg/g	5600	<6	<6	8	<6	<6	<6	<6

*MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

SCS - Site Condition Standards

RPI - Residential/Parkland/Institutional

Table 2: Soil Quality Results
Volatile Organic Compounds

Parameter	Unit	*Table 3 SCS RPI Property Use	Sample Identification						
			BH101 S5	BH112 S5 (Duplictae of BH101 S5)	BH102 S6	BH201 S8	BH202 S5	BH207 S5 (Duplicate of BH202 S5)	BH203 S6
Date Sampled			**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**13-Mar-24**	**13-Mar-24**	**13-Mar-24**	**13-Mar-24**
Depth	***mbgs***		***2.2 - 2.5***	***2.2 - 2.5***	***3.0 - 3.7***	***3.1 - 4.6***	***3.0 - 3.7***	***3.0 - 3.7***	***3.8 - 4.6***
Acetone	µg/g	28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	µg/g	0.17	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromodichloromethane	µg/g	13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	µg/g	0.26	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	µg/g	0.12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene	µg/g	2.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	µg/g	0.18	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	µg/g	9.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane	µg/g	25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	µg/g	4.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	µg/g	6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	µg/g	0.097	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	µg/g	11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloroethane	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethylene	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1,2-Dichloroethylene	µg/g	30	<0.05	<0.05	0.58	<0.05	<0.05	<0.05	<0.05
trans-1,2-Dichloroethylene	µg/g	0.75	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloropropane	µg/g	0.085	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene, total	µg/g	0.083	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene dibromide	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexane	µg/g	34	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Ethyl Ketone (2-Butanone)	µg/g	44	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl Isobutyl Ketone	µg/g	4.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl tert-butyl ether	µg/g	1.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	µg/g	0.96	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	µg/g	2.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethylene	µg/g	2.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Toluene	µg/g	6	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	µg/g	3.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	µg/g	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethylene	µg/g	0.52	<0.05	<0.05	**0.72**	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	µg/g	5.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	µg/g	0.022	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Xylenes, total	µg/g	25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

*MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

SCS - Site Condition Standards

RPI - Residential/Parkland/Institutional

Bold/Shaded - Value Exceeds MECP Table 3 SCS (RPI).

Table 3: Soil Quality Results
Polycyclic Aromatic Hydrocarbons

Parameter	Unit	*Table 3 SCS RPI Property Use	Sample Identification			
			BH103 S3	BH105 S2	BH113 S2 (Duplicate of BH105 S2)	BH110 S1
Date Sampled			**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**15-Feb-24**
Depth	***mbgs***		***0.8 - 1.5***	***0.1 - 0.2***	***0.1 - 0.2***	***0 - 0.8***
Acenaphthene	µg/g	58	<0.02	<0.02	<0.02	<0.02
Acenaphthylene	µg/g	0.17	<0.02	<0.02	<0.02	<0.02
Anthracene	µg/g	0.74	<0.02	<0.02	<0.02	<0.02
Benzo(a)anthracene	µg/g	0.63	<0.02	<0.02	<0.02	<0.02
Benzo(a)pyrene	µg/g	0.3	<0.02	<0.02	<0.02	<0.02
Benzo(b)fluoranthene	µg/g	0.78	<0.02	<0.02	<0.02	<0.02
Benzo(g,h,i)perylene	µg/g	7.8	<0.02	<0.02	<0.02	<0.02
Benzo(k)fluoranthene	µg/g	0.78	<0.02	<0.02	<0.02	<0.02
Chrysene	µg/g	7.8	<0.02	<0.02	<0.02	<0.02
Dibenz(a,h)anthracene	µg/g	0.1	<0.02	<0.02	<0.02	<0.02
Fluoranthene	µg/g	0.69	<0.02	<0.02	<0.02	<0.02
Fluorene	µg/g	69	<0.02	<0.02	<0.02	<0.02
Indeno(1,2,3-cd)pyrene	µg/g	0.48	<0.02	<0.02	<0.02	<0.02
1+2-Methylnaphthalenes	µg/g	3.4	<0.04	<0.04	<0.04	<0.04
Naphthalene	µg/g	0.75	<0.01	<0.01	<0.01	<0.01
Phenanthrene	µg/g	7.8	<0.02	<0.02	<0.02	<0.02
Pyrene	µg/g	78	<0.02	<0.02	<0.02	<0.02

*MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

SCS - Site Condition Standards

RPI - Residential/Parkland/Institutional

Table 4: Soil Quality Results
Metals and Inorganics

Parameter	Unit	*Table 3 SCS RPI Property Use	Sample Identification							
			BH102 S1	BH103 S3	BH104 S1	BH105 S1	BH105 S2	BH107 S1	BH108 S1	BH109 S1
Date Sampled			**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**13-Feb-24**	**15-Feb-24**
Depth	***mbgs***		***0 - 0.1***	***0.8 - 1.5***	***0 - 0.2***	***0 - 0.1***	***0.1 - 1.2***	***0 - 0.2***	***0 - 0.2***	***0.2 - 0.5***
Antimony	µg/g	7.5	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	µg/g	18	8.3	7.8	6.3	5.7	7.5	6.8	8.1	1.6
Barium	µg/g	390	47.9	51.1	50.2	47.5	57.1	60.7	60.4	9.6
Beryllium	µg/g	5	<0.5	0.8	0.6	0.6	0.7	0.7	0.5	<0.5
Boron (Hot Water Soluble)	µg/g	1.5	N/A	0.6	N/A	N/A	0.6	N/A	N/A	N/A
Boron	µg/g	120	<5	7.7	<5	6.2	6.7	<5	<5	<5
Cadmium	µg/g	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	16.6	20.0	17.8	18.1	19.6	20.4	16.5	7.0
Cobalt	µg/g	22	6.8	9.9	7.6	8.2	10.2	8.4	6.1	2.6
Copper	µg/g	180	19.4	25.8	20.6	22.1	27.1	26.9	23.1	5.6
Lead	µg/g	120	26.6	13.4	20.7	19.8	11.0	20.4	29.3	2.1
Molybdenum	µg/g	6.9	<1	<1	<1	<1	<1	<1	1.2	<1
Nickel	µg/g	130	17.5	19.8	16.4	17.0	20.5	19.1	13.1	<5
Selenium	µg/g	2.4	<1	<1	<1	<1	<1	<1	<1	<1
Silver	µg/g	25	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	µg/g	1	<1	<1	<1	<1	<1	<1	<1	<1
Uranium	µg/g	23	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium	µg/g	86	22.8	29.4	25.5	25.6	27.6	28.9	24.1	14.0
Zinc	µg/g	340	48.0	47.3	50.7	53.1	53.3	67.9	54.5	<20
Chromium, Hexavalent	µg/g	10	N/A	<0.2	N/A	N/A	<0.2	N/A	N/A	N/A
Cyanide, WAD	µg/g	0.051	N/A	<0.03	N/A	N/A	<0.03	N/A	N/A	N/A
Mercury	µg/g	1.8	N/A	<0.1	N/A	N/A	<0.1	N/A	N/A	N/A
Electrical Conductivity	mS/cm	700	N/A	395	N/A	N/A	204	N/A	N/A	N/A
Sodium Adsorption Ratio	-	5	N/A	0.13	N/A	N/A	0.10	N/A	N/A	N/A
pH	pH Units	-	N/A	7.68	N/A	N/A	7.51	N/A	N/A	N/A

*MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act , dated April 2011.

SCS - Site Condition Standards

RPI - Residential/Parkland/Institutional

N/A - Not Analyzed

Table 4: Soil Quality Results
Metals and Inorganics

Parameter	Unit	*Table 3 SCS RPI Property Use	Sample Identification							
			BH115 S1 (Duplicate of BH109 S1)	BH110 S1	BH202 S1	BH203 S1	BH208 S1 (Duplicate of BH203 S1)	BH204 S1	BH205 S1	BH206 S1
Date Sampled			**15-Feb-24**	**15-Feb-24**	**13-Mar-24**	**13-Mar-24**	**13-Mar-24**	**13-Mar-24**	**13-Mar-24**	**13-Mar-24**
Depth	***mbgs***		***0.2 - 0.5***	***0 - 0.8***	***0 - 0.3***	***0 - 0.3***	***0 - 0.3***	***0 - 0.3***	***0 - 0.2***	***0 - 0.2***
Antimony	µg/g	7.5	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	µg/g	18	1.9	6.7	9.4	7.8	7.9	8.3	8.4	8.5
Barium	µg/g	390	13.2	43.4	59.1	71.3	58.4	69.5	56.9	69.9
Beryllium	µg/g	5	<0.5	0.7	0.6	0.8	0.8	1.1	0.8	0.7
Boron (Hot Water Soluble)	µg/g	1.5	N/A	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6
Boron	µg/g	120	<5	6.1	6.5	11.2	9.2	14.8	10.4	9.2
Cadmium	µg/g	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	8.9	18.8	19.3	25.1	22.0	28.1	22.1	22.7
Cobalt	µg/g	22	3.9	9.4	8.5	10.7	10.2	13.3	10.1	9.3
Copper	µg/g	180	7.9	25.5	23.1	28.9	27.5	32.9	28.6	31.0
Lead	µg/g	120	2.3	12.6	25.9	14.7	14.7	19.6	18.0	41.4
Molybdenum	µg/g	6.9	<1	<1	<1	1.4	<1	<1	<1	<1
Nickel	µg/g	130	6.9	19.1	18.0	23.4	21.2	28.0	20.5	20.0
Selenium	µg/g	2.4	<1	<1	<1	<1	<1	<1	<1	<1
Silver	µg/g	25	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Thallium	µg/g	1	<1	<1	<1	<1	<1	<1	<1	<1
Uranium	µg/g	23	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium	µg/g	86	16.3	27.2	28.9	36.9	33.2	39.2	32.2	31.5
Zinc	µg/g	340	<20	48.7	50.2	64.7	56.4	74.9	58.9	72.7
Chromium, Hexavalent	µg/g	10	N/A	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	N/A	<0.03	N/A	N/A	N/A	N/A	N/A	N/A
Mercury	µg/g	1.8	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Electrical Conductivity	mS/cm	700	N/A	218	N/A	N/A	N/A	N/A	N/A	N/A
Sodium Adsorption Ratio	-	5	N/A	0.74	N/A	N/A	N/A	N/A	N/A	N/A
pH	pH Units	-	N/A	7.50	N/A	N/A	N/A	N/A	N/A	N/A

*MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act , dated April 2011.

SCS - Site Condition Standards

RPI - Residential/Parkland/Institutional

N/A - Not Analyzed

Table 5: Soil Quality Results
Polychlorinated Biphenyls

Parameter	Unit	*Table 3 SCS RPI Property Use	Sample Identification		
			BH106 S1	BH114 S1 (Duplicate of BH106 S1)	BH111 S1
Date Sampled			**13-Feb-24**	**13-Feb-24**	**15-Feb-24**
Sample Depth	*m bgs*		***0.2 - 0.8***	***0.2 - 0.8***	***0 - 0.8***
Total PCBs	ug/g	0.35	<0.50	<0.50	<0.05

*MECP, and Parks Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act , dated April 2011.

SCS - Site Condition Standards

RPI - Residential/Parkland/Institutional

Shaded - Detection Limit Exceeds MECP Table 3 SCS (RPI) (medium-fine).

Table 6: Soil Quality Results
Organochlorine Pesticides

Parameter	Unit	*Table 3 SCS RPI Property Use	Sample Identification							
			BH102 S1	BH102 S3	BH104 S1	BH105 S1	BH107 S1	BH107 S2	BH108 S1	BH108 S2
Date Sampled			13-Feb-24	13-Feb-24	13-Feb-24	13-Feb-24	13-Feb-24	13-Feb-24	13-Feb-24	13-Feb-24
Sample Depth	*m bgs*		***0 - 0.1***	***0.4 - 1.2***	***0 - 0.2***	***0 - 0.1***	***0 - 0.2***	***0.2 - 1.2***	***0 - 0.2***	***0.2 - 1.2***
Aldrin	ug/g	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
gamma-BHC (Lindane)	ug/g	0.063	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlordane	ug/g	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DDD	ug/g	3.3	<0.02	<0.01	<0.02	<0.02	0.02	<0.01	<0.02	0.14
DDE	ug/g	0.33	**0.38**	<0.01	0.10	<0.01	0.31	<0.01	**0.45**	0.3
DDT	ug/g	1.4	0.17	<0.01	0.05	<0.01	0.15	<0.01	<0.01	<0.01
Dieldrin	ug/g	0.05	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.02	<0.01
Endrin	ug/g	0.04	<0.02	<0.01	<0.02	<0.02	<0.02	<0.01	<0.02	<0.01
Heptachlor	ug/g	0.15	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor Epoxide	ug/g	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	ug/g	0.52	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	ug/g	0.014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	ug/g	0.071	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methoxychlor	ug/g	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

*MECP, and Parks Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act , dated April 2011.

SCS - Site Condition Standards

RPI - Residential/Parkland/Institutional

Bold/Shaded - Value Exceeds MECP Table 3 SCS (RPI) (medium-fine) .

Table 6: Soil Quality Results
Organochlorine Pesticides

Parameter	Unit	Sample Identification								
		BH109 S1	BH115 S1 (Duplicate of BH109 S1)	BH110 S1	BH202 S1	BH203 S1	BH208 S1 (Duplicate of BH203 S1)	BH204 S1	BH205 S1	BH206 S1
Date Sampled		**15-Feb-24**	**15-Feb-24**	**15-Feb-24**	**13-Mar-24**	**13-Mar-24**	**13-Mar-24**	**13-Mar-24**	**13-Mar-24**	**13-Mar-24**
Sample Depth	*m bgs*	***0.2 - 0.5***	***0.2 - 0.5***	***0 - 0.8***	***0 - 0.3***	***0 - 0.3***	***0 - 0.3***	***0 - 0.3***	***0 - 0.2***	***0 - 0.2***
Aldrin	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
gamma-BHC (Lindane)	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlordane	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DDD	ug/g	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DDE	ug/g	<0.01	<0.01	0.21	0.09	0.02	0.03	0.15	0.07	0.03
DDT	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dieldrin	ug/g	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endrin	ug/g	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor Epoxide	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobenzene	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachlorobutadiene	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methoxychlor	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

*MECP, and Parks Soil, Ground Water and Sediment Standards
XV.1 of the Environmental Protection Act , dated April 2011.

SCS - Site Condition Standards

RPI - Residential/Parkland/Institutional

Bold/Shaded - Value Exceeds MECP Table 3 SCS (RPI) (medi

Table 7: Groundwater Quality Results
Petroleum Hydrocarbons (PHCs) F1-F4 and BTEX

Parameter	Unit	*Table 3 SCS	Sample Identification				
			BH/MW101	BH/MW112 (Duplicate of BH/MW101)	BH/MW102	BH/MW201	BH/MW210 (Duplicate of BH/MW201
Date Sampled	**-**	**-**	**20-Feb-24**	**20-Feb-24**	**31-May-24**	**20-Mar-24**	**20-Mar-24**
Benzene	µg/L	430	<0.5	<0.5	<0.5	<5.0	<5.0
Ethylbenzene	µg/L	2,300	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	18,000	<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes (total)	µg/L	4,200	<0.05	<0.05	<0.05	<0.50	<0.50
Petroleum Hydrocarbons F1 (C6-C10)	µg/L	750	<25	<25	<25	<25	<25
Petroleum Hydrocarbons F2 (C10-C16)	µg/L	150	<100	<100	<100	<100	<100
Petroleum Hydrocarbons F3 (C16-C34)	µg/L	500	<100	<100	<100	<100	<100
Petroleum Hydrocarbons F4 (C34-C50)	µg/L	500	<100	<100	<100	<100	<100

*MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

SCS - Site Condition Standard

N/A - Not Analyzed

Table 8: Groundwater Quality Results
Volatile Organic Compounds (VOCs)

Parameter	Unit	*Table 3 SCS	Sample Identification						
			BH/MW101	BH/MW112 (Duplicate of BH/MW101)	BH/MW102	BH/MW201	BH/MW210 (Duplicate of BH/MW201)	BH/MW202	BH/MW203
Date Sampled	-	-	**20-Feb-24**	**20-Feb-24**	**31-May-24**	**20-Mar-24**	**20-Mar-24**	**20-Mar-24**	**20-Mar-24**
Acetone	µg/L	130,000	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	µg/L	430	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	µg/L	85,000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	µg/L	770	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane	µg/L	56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	µg/L	8.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chlorobenzene	µg/L	630	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	µg/L	22	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	82,000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	µg/L	4,400	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	µg/L	9,600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	µg/L	9,600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	µg/L	67	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	µg/L	3,100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	µg/L	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	µg/L	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene	µg/L	17	<0.5	<0.5	0.9	<0.5	<0.5	8.9	<0.5
trans-1,2-Dichloroethylene	µg/L	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	µg/L	140	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3- Dichloropropene (cis+trans)	µg/L	45	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	2,300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylene Dibromide	µg/L	0.83	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
n-Hexane	µg/L	520	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (2-Butanone)	µg/L	1,500,000	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Isobutyl Ketone	µg/L	580,000	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl t-butyl ether (MTBE)	µg/L	1,400	<2	<2	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride (Dichloromethane)	µg/L	5,500	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	µg/L	9,100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	µg/L	28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	µg/L	15	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	µg/L	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	18,000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	µg/L	6,700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	µg/L	30	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	µg/L	17	<0.5	<0.5	<0.5	<0.5	<0.5	8.6	<0.5
Trichorofluoromethane	µg/L	2,500	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylene Mixture (Total)	µg/L	4,200	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

*MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

SCS - Site Condition Standard

Table 9: Groundwater Quality Results
Metals and Inorganics

Parameter	Unit	*Table 3 SCS	Sample Identification				
			BH/MW101	BH/MW112 (Duplicate of BH/MW101)	BH/MW102	BH/MW201	BH/MW210 (Duplicate of BH/MW201)
Date Sampled	-	-	**20-Feb-24**	**20-Feb-24**	**31-May-24**	**20-Feb-24**	**20-Feb-24**
Antimony	µg/L	20,000	<0.5	<0.5	<0.5	0.6	0.6
Arsenic	µg/L	1,900	<1	<1	<1.0	2.8	2.8
Barium	µg/L	29,000	79.5	85.7	38.1	119	123
Beryllium	µg/L	67	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/L	45,000	238	232	236	713	736
Cadmium	µg/L	2.7	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	µg/L	810	<1	<1	<1.0	<1.0	<1.0
Cobalt	µg/L	66	0.5	0.6	1.0	1.0	0.8
Copper	µg/L	87	1.6	0.5	0.8	<0.5	1.1
Lead	µg/L	25	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum	µg/L	9,200	1.2	1.1	10.4	<0.1	<0.1
Nickel	µg/L	490	1.5	1.5	3.9	3.2	3.2
Selenium	µg/L	63	<1	<1	<1.0	2.0	1.6
Silver	µg/L	1.5	<0.2	<0.2	<0.2	<1.0	<1.0
Thallium	µg/L	510	<0.5	<0.5	<0.5	<0.2	<0.2
Uranium	µg/L	420	2.4	2.6	14.7	<0.5	<0.5
Vanadium	µg/L	250	<0.5	<0.5	1.4	0.3	0.3
Zinc	µg/L	1,100	<5	<5	<5.0	0.7	0.5
Mercury	µg/L	2.8	<0.1	<0.1	<0.1	<5.0	<5.0
Chromium VI	µg/L	140	<10	<10	<10	12	17
Sodium	µg/L	2,300,000	99,500	108,000	60300	709,400	85,600

*MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

SCS - Site Condition Standards

NV - No Value

Appendix D:
Certificates of Analysis

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Certificate of Analysis

G2S Environmental Consulting Inc. (Stouffville)
37 Sandiford Drive, Suite 411
Stouffville, ON L4A 7X5
Attn: Rachael Lesmeister

Report Date: 23-Feb-2024
Order Date: 16-Feb-2024

Client PO: 1840 + 1850 Bloor Street
Project: G2S24012B
Custody: 143579,, 142675, 143580

Order #: 2407497

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID	Paracel ID	Client ID
2407497-01	BH101 S5	2407497-17	BH111 S1
2407497-02	BH101 S6	2407497-18	BH112 S5
2407497-03	BH102 S1	2407497-19	BH113 S2
2407497-04	BH102 S5	2407497-20	BH114 S1
2407497-05	BH102 S6	2407497-21	BH115 S1
2407497-06	BH103 S3		
2407497-07	BH104 S1		
2407497-08	BH105 S1		
2407497-09	BH105 S2		
2407497-10	BH105 S4		
2407497-11	BH106 S1		
2407497-12	BH107 S1		
2407497-13	BH107 S3		
2407497-14	BH108 S1		
2407497-15	BH109 S1		
2407497-16	BH110 S1		

Approved By: Mark Foto

Mark Foto, M.Sc.
Lab Supervisor

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	22-Feb-24	22-Feb-24
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	21-Feb-24	22-Feb-24
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	21-Feb-24	22-Feb-24
Conductivity	MOE E3138 - probe @25 °C, water ext	22-Feb-24	22-Feb-24
Cyanide, free	MOE E3015 - Auto Colour, water extraction	22-Feb-24	22-Feb-24
Mercury by CVAA	EPA 7471B - CVAA, digestion	22-Feb-24	22-Feb-24
PCBs, total	SW846 8082A - GC-ECD	20-Feb-24	22-Feb-24
pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	21-Feb-24	21-Feb-24
PHC F1	CWS Tier 1 - P&T GC-FID	21-Feb-24	22-Feb-24
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	22-Feb-24	22-Feb-24
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	22-Feb-24	22-Feb-24
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	22-Feb-24	23-Feb-24
REG 153: Pesticides, OC	EPA 8081B - GC-ECD	20-Feb-24	21-Feb-24
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	21-Feb-24	22-Feb-24
SAR	Calculated	22-Feb-24	22-Feb-24
Solids, %	CWS Tier 1 - Gravimetric	22-Feb-24	23-Feb-24
Texture - Coarse Med/Fine	Based on ASTM D2487	20-Feb-24	23-Feb-24

Summary of Criteria Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
BH102 S1	DDE	0.01 ug/g	0.38	0.26 ug/g	0.33 ug/g
BH102 S6	Trichloroethylene	0.05 ug/g	0.72	0.061 ug/g	0.52 ug/g
BH106 S1	PCBs, total	0.05 ug/g	<0.50 [1]	0.35 ug/g	0.35 ug/g
BH107 S1	DDE	0.01 ug/g	0.31	0.26 ug/g	0.33 ug/g
BH108 S1	DDE	0.01 ug/g	0.45	0.26 ug/g	0.33 ug/g
BH114 S1	PCBs, total	0.05 ug/g	<0.50 [1]	0.35 ug/g	0.35 ug/g

	Client ID:	BH101 S5	BH101 S6	BH102 S1	BH102 S5	Criteria:	
	Sample Date:	13-Feb-24 09:14	13-Feb-24 09:14	13-Feb-24 10:32	13-Feb-24 10:32	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-01	2407497-02	2407497-03	2407497-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	89.2	89.5	75.4	-	-	-
>75 um	0.1 %	-	14.1	-	-	-	-
<75 um	0.1 %	-	85.9	-	-	-	-
Texture	0.1 %	-	Med/Fine	-	-	-	-
General Inorganics							
pH	0.05 pH Units	-	-	-	7.65	5.00 - 9.00 pH Units	5.00 - 9.00 pH Units
Metals							
Antimony	1.0 ug/g	-	-	<1.0	-	7.5 ug/g	7.5 ug/g
Arsenic	1.0 ug/g	-	-	8.3	-	18 ug/g	18 ug/g
Barium	1.0 ug/g	-	-	47.9	-	390 ug/g	390 ug/g
Beryllium	0.5 ug/g	-	-	<0.5	-	4 ug/g	5 ug/g
Boron	5.0 ug/g	-	-	<5.0	-	120 ug/g	120 ug/g
Cadmium	0.5 ug/g	-	-	<0.5	-	1.2 ug/g	1.2 ug/g
Chromium	5.0 ug/g	-	-	16.6	-	160 ug/g	160 ug/g
Cobalt	1.0 ug/g	-	-	6.8	-	22 ug/g	22 ug/g
Copper	5.0 ug/g	-	-	19.4	-	140 ug/g	180 ug/g
Lead	1.0 ug/g	-	-	26.6	-	120 ug/g	120 ug/g
Molybdenum	1.0 ug/g	-	-	<1.0	-	6.9 ug/g	6.9 ug/g
Nickel	5.0 ug/g	-	-	17.5	-	100 ug/g	130 ug/g
Selenium	1.0 ug/g	-	-	<1.0	-	2.4 ug/g	2.4 ug/g
Silver	0.3 ug/g	-	-	<0.3	-	20 ug/g	25 ug/g
Thallium	1.0 ug/g	-	-	<1.0	-	1 ug/g	1 ug/g
Uranium	1.0 ug/g	-	-	<1.0	-	23 ug/g	23 ug/g
Vanadium	10.0 ug/g	-	-	22.8	-	86 ug/g	86 ug/g
Zinc	20.0 ug/g	-	-	48.0	-	340 ug/g	340 ug/g

	Client ID:	BH101 S5	BH101 S6	BH102 S1	BH102 S5	Criteria:	
	Sample Date:	13-Feb-24 09:14	13-Feb-24 09:14	13-Feb-24 10:32	13-Feb-24 10:32	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-01	2407497-02	2407497-03	2407497-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Acetone	0.50 ug/g	<0.50	-	-	-	16 ug/g	28 ug/g
Benzene	0.02 ug/g	<0.02	-	-	-	0.21 ug/g	0.17 ug/g
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	13 ug/g	13 ug/g
Bromoform	0.05 ug/g	<0.05	-	-	-	0.27 ug/g	0.26 ug/g
Bromomethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.12 ug/g
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	2.4 ug/g	2.7 ug/g
Chloroform	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.18 ug/g
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	9.4 ug/g	9.4 ug/g
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	16 ug/g	25 ug/g
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	3.4 ug/g	4.3 ug/g
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	4.8 ug/g	6 ug/g
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	0.083 ug/g	0.097 ug/g
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	3.5 ug/g	11 ug/g
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	3.4 ug/g	30 ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	0.084 ug/g	0.75 ug/g
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.085 ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.083 ug/g
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	2 ug/g	15 ug/g
Hexane	0.05 ug/g	<0.05	-	-	-	2.8 ug/g	34 ug/g

Certificate of Analysis

Report Date: 23-Feb-2024

Client: G2S Environmental Consulting Inc. (Stouffville)

Order Date: 16-Feb-2024

Client PO: 1840 + 1850 Bloor Street

Project Description: G2S24012B

	Client ID:	BH101 S5	BH101 S6	BH102 S1	BH102 S5	Criteria:	
	Sample Date:	13-Feb-24 09:14	13-Feb-24 09:14	13-Feb-24 10:32	13-Feb-24 10:32	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-01	2407497-02	2407497-03	2407497-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	16 ug/g	44 ug/g
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	1.7 ug/g	4.3 ug/g
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	0.75 ug/g	1.4 ug/g
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	0.1 ug/g	0.96 ug/g
Styrene	0.05 ug/g	<0.05	-	-	-	0.7 ug/g	2.2 ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	0.058 ug/g	0.05 ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	0.28 ug/g	2.3 ug/g
Toluene	0.05 ug/g	<0.05	-	-	-	2.3 ug/g	6 ug/g
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	0.38 ug/g	3.4 ug/g
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
Trichloroethylene	0.05 ug/g	<0.05	-	-	-	0.061 ug/g	0.52 ug/g
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	4 ug/g	5.8 ug/g
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	0.02 ug/g	0.022 ug/g
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	3.1 ug/g	25 ug/g
Toluene-d8	Surrogate	93.9%	-	-	-	-	-
4-Bromofluorobenzene	Surrogate	104%	-	-	-	-	-
Dibromofluoromethane	Surrogate	123%	-	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	55 ug/g	65 ug/g
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	98 ug/g	150 ug/g
F3 PHCs (C16-C34)	8 ug/g	<8	-	-	-	300 ug/g	1300 ug/g
F4 PHCs (C34-C50)	6 ug/g	<6	-	-	-	2800 ug/g	5600 ug/g

Certificate of Analysis

Report Date: 23-Feb-2024

Client: G2S Environmental Consulting Inc. (Stouffville)

Order Date: 16-Feb-2024

Client PO: 1840 + 1850 Bloor Street

Project Description: G2S24012B

	Client ID:	BH101 S5	BH101 S6	BH102 S1	BH102 S5	Criteria:	
	Sample Date:	13-Feb-24 09:14	13-Feb-24 09:14	13-Feb-24 10:32	13-Feb-24 10:32	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-01	2407497-02	2407497-03	2407497-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
Aldrin	0.01 ug/g	-	-	<0.01	-	0.05 ug/g	0.05 ug/g
gamma-BHC (Lindane)	0.01 ug/g	-	-	<0.01	-	0.056 ug/g	0.063 ug/g
alpha-Chlordane	0.01 ug/g	-	-	<0.01	-	-	-
gamma-Chlordane	0.01 ug/g	-	-	<0.01	-	-	-
Chlordane	0.01 ug/g	-	-	<0.01	-	0.05 ug/g	0.05 ug/g
o,p'-DDD	0.01 ug/g	-	-	<0.01	-	-	-
p,p'-DDD	0.02 ug/g	-	-	<0.02	-	-	-
DDD	0.02 ug/g	-	-	<0.02	-	3.3 ug/g	3.3 ug/g
o,p'-DDE	0.01 ug/g	-	-	<0.01	-	-	-
p,p'-DDE	0.01 ug/g	-	-	0.38	-	-	-
DDE	0.01 ug/g	-	-	0.38	-	0.26 ug/g	0.33 ug/g
o,p'-DDT	0.01 ug/g	-	-	<0.01	-	-	-
p,p'-DDT	0.01 ug/g	-	-	0.17	-	-	-
DDT	0.01 ug/g	-	-	0.17	-	1.4 ug/g	1.4 ug/g
Dieldrin	0.02 ug/g	-	-	<0.02	-	0.05 ug/g	0.05 ug/g
Endrin	0.02 ug/g	-	-	<0.02	-	0.04 ug/g	0.04 ug/g
Endosulfan I	0.01 ug/g	-	-	<0.01	-	-	-
Endosulfan II	0.02 ug/g	-	-	<0.02	-	-	-
Endosulfan I/II	0.02 ug/g	-	-	<0.02	-	0.04 ug/g	0.04 ug/g
Heptachlor	0.01 ug/g	-	-	<0.01	-	0.15 ug/g	0.15 ug/g
Heptachlor epoxide	0.01 ug/g	-	-	<0.01	-	0.05 ug/g	0.05 ug/g
Hexachlorobenzene	0.01 ug/g	-	-	<0.01	-	0.52 ug/g	0.52 ug/g
Hexachlorobutadiene	0.01 ug/g	-	-	<0.01	-	0.012 ug/g	0.014 ug/g
Hexachloroethane	0.01 ug/g	-	-	<0.01	-	0.089 ug/g	0.071 ug/g
Methoxychlor	0.01 ug/g	-	-	<0.01	-	0.13 ug/g	0.13 ug/g

	Client ID:	BH101 S5	BH101 S6	BH102 S1	BH102 S5	Criteria:	
	Sample Date:	13-Feb-24 09:14	13-Feb-24 09:14	13-Feb-24 10:32	13-Feb-24 10:32	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-01	2407497-02	2407497-03	2407497-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
Decachlorobiphenyl	Surrogate	-	-	121%	-	-	-

Certificate of Analysis

Report Date: 23-Feb-2024

Client: **G2S Environmental Consulting Inc. (Stouffville)**

Order Date: 16-Feb-2024

Client PO: **1840 + 1850 Bloor Street**

Project Description: G2S24012B

	Client ID:	BH102 S6	BH103 S3	BH104 S1	BH105 S1	Criteria:	
	Sample Date:	13-Feb-24 10:32	13-Feb-24 12:31	13-Feb-24 12:45	13-Feb-24 12:58	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-05	2407497-06	2407497-07	2407497-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	89.9	88.3	82.8	84.2	-	-
General Inorganics							
SAR	0.01 N/A	-	0.13	-	-	5 N/A	5 N/A
Conductivity	5 uS/cm	-	395	-	-	0.7 mS/cm	0.7 mS/cm
Cyanide, free	0.03 ug/g	-	<0.03	-	-	0.051 ug/g	0.051 ug/g
pH	0.05 pH Units	-	7.68	-	-	5.00 - 9.00 pH Units	5.00 - 9.00 pH Units
Metals							
Antimony	1.0 ug/g	-	<1.0	<1.0	<1.0	7.5 ug/g	7.5 ug/g
Arsenic	1.0 ug/g	-	7.8	6.3	5.7	18 ug/g	18 ug/g
Barium	1.0 ug/g	-	51.1	50.2	47.5	390 ug/g	390 ug/g
Beryllium	0.5 ug/g	-	0.8	0.6	0.6	4 ug/g	5 ug/g
Boron	5.0 ug/g	-	7.7	<5.0	6.2	120 ug/g	120 ug/g
Boron, available	0.5 ug/g	-	0.6	-	-	1.5 ug/g	1.5 ug/g
Cadmium	0.5 ug/g	-	<0.5	<0.5	<0.5	1.2 ug/g	1.2 ug/g
Chromium (VI)	0.2 ug/g	-	<0.2	-	-	8 ug/g	10 ug/g
Chromium	5.0 ug/g	-	20.0	17.8	18.1	160 ug/g	160 ug/g
Cobalt	1.0 ug/g	-	9.9	7.6	8.2	22 ug/g	22 ug/g
Copper	5.0 ug/g	-	25.8	20.6	22.1	140 ug/g	180 ug/g
Lead	1.0 ug/g	-	13.4	20.7	19.8	120 ug/g	120 ug/g
Mercury	0.1 ug/g	-	<0.1	-	-	0.27 ug/g	1.8 ug/g
Molybdenum	1.0 ug/g	-	<1.0	<1.0	<1.0	6.9 ug/g	6.9 ug/g
Nickel	5.0 ug/g	-	19.8	16.4	17.0	100 ug/g	130 ug/g
Selenium	1.0 ug/g	-	<1.0	<1.0	<1.0	2.4 ug/g	2.4 ug/g
Silver	0.3 ug/g	-	<0.3	<0.3	<0.3	20 ug/g	25 ug/g
Thallium	1.0 ug/g	-	<1.0	<1.0	<1.0	1 ug/g	1 ug/g

	Client ID:	BH102 S6	BH103 S3	BH104 S1	BH105 S1	Criteria:	
	Sample Date:	13-Feb-24 10:32	13-Feb-24 12:31	13-Feb-24 12:45	13-Feb-24 12:58	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-05	2407497-06	2407497-07	2407497-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Uranium	1.0 ug/g	-	<1.0	<1.0	<1.0	23 ug/g	23 ug/g
Vanadium	10.0 ug/g	-	29.4	25.5	25.6	86 ug/g	86 ug/g
Zinc	20.0 ug/g	-	47.3	50.7	53.1	340 ug/g	340 ug/g
Volatiles							
Acetone	0.50 ug/g	<0.50	-	-	-	16 ug/g	28 ug/g
Benzene	0.02 ug/g	<0.02	-	-	-	0.21 ug/g	0.17 ug/g
Bromodichloromethane	0.05 ug/g	<0.05	-	-	-	13 ug/g	13 ug/g
Bromoform	0.05 ug/g	<0.05	-	-	-	0.27 ug/g	0.26 ug/g
Bromomethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.12 ug/g
Chlorobenzene	0.05 ug/g	<0.05	-	-	-	2.4 ug/g	2.7 ug/g
Chloroform	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.18 ug/g
Dibromochloromethane	0.05 ug/g	<0.05	-	-	-	9.4 ug/g	9.4 ug/g
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	-	16 ug/g	25 ug/g
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	3.4 ug/g	4.3 ug/g
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	4.8 ug/g	6 ug/g
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	-	0.083 ug/g	0.097 ug/g
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	-	3.5 ug/g	11 ug/g
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	0.58	-	-	-	3.4 ug/g	30 ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	-	0.084 ug/g	0.75 ug/g
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.085 ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	-	-	-

	Client ID:	BH102 S6	BH103 S3	BH104 S1	BH105 S1	Criteria:	
	Sample Date:	13-Feb-24 10:32	13-Feb-24 12:31	13-Feb-24 12:45	13-Feb-24 12:58	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-05	2407497-06	2407497-07	2407497-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.083 ug/g
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	2 ug/g	15 ug/g
Hexane	0.05 ug/g	<0.05	-	-	-	2.8 ug/g	34 ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	-	16 ug/g	44 ug/g
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	-	1.7 ug/g	4.3 ug/g
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	-	0.75 ug/g	1.4 ug/g
Methylene Chloride	0.05 ug/g	<0.05	-	-	-	0.1 ug/g	0.96 ug/g
Styrene	0.05 ug/g	<0.05	-	-	-	0.7 ug/g	2.2 ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	0.058 ug/g	0.05 ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	-	0.28 ug/g	2.3 ug/g
Toluene	0.05 ug/g	<0.05	-	-	-	2.3 ug/g	6 ug/g
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	-	0.38 ug/g	3.4 ug/g
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	-	0.05 ug/g	0.05 ug/g
Trichloroethylene	0.05 ug/g	0.72	-	-	-	0.061 ug/g	0.52 ug/g
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	-	4 ug/g	5.8 ug/g
Vinyl chloride	0.02 ug/g	<0.02	-	-	-	0.02 ug/g	0.022 ug/g
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	3.1 ug/g	25 ug/g
Dibromofluoromethane	Surrogate	117%	-	-	-	-	-
Toluene-d8	Surrogate	94.3%	-	-	-	-	-
4-Bromofluorobenzene	Surrogate	104%	-	-	-	-	-
Hydrocarbons							

	Client ID:	BH102 S6	BH103 S3	BH104 S1	BH105 S1	Criteria:	
	Sample Date:	13-Feb-24 10:32	13-Feb-24 12:31	13-Feb-24 12:45	13-Feb-24 12:58	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-05	2407497-06	2407497-07	2407497-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	55 ug/g	65 ug/g
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	98 ug/g	150 ug/g
F3 PHCs (C16-C34)	8 ug/g	143	-	-	-	300 ug/g	1300 ug/g
F4 PHCs (C34-C50)	6 ug/g	8	-	-	-	2800 ug/g	5600 ug/g
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	<0.02	-	-	7.9 ug/g	58 ug/g
Acenaphthylene	0.02 ug/g	-	<0.02	-	-	0.15 ug/g	0.17 ug/g
Anthracene	0.02 ug/g	-	<0.02	-	-	0.67 ug/g	0.74 ug/g
Benzo [a] anthracene	0.02 ug/g	-	<0.02	-	-	0.5 ug/g	0.63 ug/g
Benzo [a] pyrene	0.02 ug/g	-	<0.02	-	-	0.3 ug/g	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	-	<0.02	-	-	0.78 ug/g	0.78 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	-	<0.02	-	-	6.6 ug/g	7.8 ug/g
Benzo [k] fluoranthene	0.02 ug/g	-	<0.02	-	-	0.78 ug/g	0.78 ug/g
Chrysene	0.02 ug/g	-	<0.02	-	-	7 ug/g	7.8 ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	-	<0.02	-	-	0.1 ug/g	0.1 ug/g
Fluoranthene	0.02 ug/g	-	<0.02	-	-	0.69 ug/g	0.69 ug/g
Fluorene	0.02 ug/g	-	<0.02	-	-	62 ug/g	69 ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	<0.02	-	-	0.38 ug/g	0.48 ug/g
1-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	0.99 ug/g	3.4 ug/g
2-Methylnaphthalene	0.02 ug/g	-	<0.02	-	-	0.99 ug/g	3.4 ug/g
Methylnaphthalene (1&2)	0.04 ug/g	-	<0.04	-	-	0.99 ug/g	3.4 ug/g
Naphthalene	0.01 ug/g	-	<0.01	-	-	0.6 ug/g	0.75 ug/g
Phenanthrene	0.02 ug/g	-	<0.02	-	-	6.2 ug/g	7.8 ug/g
Pyrene	0.02 ug/g	-	<0.02	-	-	78 ug/g	78 ug/g
2-Fluorobiphenyl	Surrogate	-	54.7%	-	-	-	-

	Client ID:	BH102 S6	BH103 S3	BH104 S1	BH105 S1	Criteria:	
	Sample Date:	13-Feb-24 10:32	13-Feb-24 12:31	13-Feb-24 12:45	13-Feb-24 12:58	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-05	2407497-06	2407497-07	2407497-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Terphenyl-d14	Surrogate	-	65.5%	-	-	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	-	-	<0.01	<0.01	0.05 ug/g	0.05 ug/g
gamma-BHC (Lindane)	0.01 ug/g	-	-	<0.01	<0.01	0.056 ug/g	0.063 ug/g
alpha-Chlordane	0.01 ug/g	-	-	<0.01	<0.01	-	-
gamma-Chlordane	0.01 ug/g	-	-	<0.01	<0.01	-	-
Chlordane	0.01 ug/g	-	-	<0.01	<0.01	0.05 ug/g	0.05 ug/g
o,p'-DDD	0.01 ug/g	-	-	<0.01	<0.01	-	-
p,p'-DDD	0.02 ug/g	-	-	<0.02	<0.02	-	-
DDD	0.02 ug/g	-	-	<0.02	<0.02	3.3 ug/g	3.3 ug/g
o,p'-DDE	0.01 ug/g	-	-	<0.01	<0.01	-	-
p,p'-DDE	0.01 ug/g	-	-	0.10	<0.01	-	-
DDE	0.01 ug/g	-	-	0.10	<0.01	0.26 ug/g	0.33 ug/g
o,p'-DDT	0.01 ug/g	-	-	<0.01	<0.01	-	-
p,p'-DDT	0.01 ug/g	-	-	0.05	<0.01	-	-
DDT	0.01 ug/g	-	-	0.05	<0.01	1.4 ug/g	1.4 ug/g
Dieldrin	0.02 ug/g	-	-	<0.02	<0.02	0.05 ug/g	0.05 ug/g
Endrin	0.02 ug/g	-	-	<0.02	<0.02	0.04 ug/g	0.04 ug/g
Endosulfan I	0.01 ug/g	-	-	<0.01	<0.01	-	-
Endosulfan II	0.02 ug/g	-	-	<0.02	<0.02	-	-
Endosulfan I/II	0.02 ug/g	-	-	<0.02	<0.02	0.04 ug/g	0.04 ug/g
Heptachlor	0.01 ug/g	-	-	<0.01	<0.01	0.15 ug/g	0.15 ug/g
Heptachlor epoxide	0.01 ug/g	-	-	<0.01	<0.01	0.05 ug/g	0.05 ug/g
Hexachlorobenzene	0.01 ug/g	-	-	<0.01	<0.01	0.52 ug/g	0.52 ug/g
Hexachlorobutadiene	0.01 ug/g	-	-	<0.01	<0.01	0.012 ug/g	0.014 ug/g

	Client ID:	BH102 S6	BH103 S3	BH104 S1	BH105 S1	Criteria:	
	Sample Date:	13-Feb-24 10:32	13-Feb-24 12:31	13-Feb-24 12:45	13-Feb-24 12:58	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-05	2407497-06	2407497-07	2407497-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
Hexachloroethane	0.01 ug/g	-	-	<0.01	<0.01	0.089 ug/g	0.071 ug/g
Methoxychlor	0.01 ug/g	-	-	<0.01	<0.01	0.13 ug/g	0.13 ug/g
Decachlorobiphenyl	Surrogate	-	-	125%	126%	-	-

Certificate of Analysis

Report Date: 23-Feb-2024

Client: G2S Environmental Consulting Inc. (Stouffville)

Order Date: 16-Feb-2024

Client PO: 1840 + 1850 Bloor Street

Project Description: G2S24012B

	Client ID:	BH105 S2	BH105 S4	BH106 S1	BH107 S1	Criteria:	
	Sample Date:	13-Feb-24 12:58	13-Feb-24 12:58	13-Feb-24 01:20	13-Feb-24 01:36	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-09	2407497-10	2407497-11	2407497-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	86.1	85.1	82.0	70.7	-	-
General Inorganics							
SAR	0.01 N/A	0.10	-	-	-	5 N/A	5 N/A
Conductivity	5 uS/cm	204	-	-	-	0.7 mS/cm	0.7 mS/cm
Cyanide, free	0.03 ug/g	<0.03	-	-	-	0.051 ug/g	0.051 ug/g
pH	0.05 pH Units	7.51	-	-	-	5.00 - 9.00 pH Units	5.00 - 9.00 pH Units
Metals							
Antimony	1.0 ug/g	<1.0	-	-	<1.0	7.5 ug/g	7.5 ug/g
Arsenic	1.0 ug/g	7.5	-	-	6.8	18 ug/g	18 ug/g
Barium	1.0 ug/g	57.1	-	-	60.7	390 ug/g	390 ug/g
Beryllium	0.5 ug/g	0.7	-	-	0.7	4 ug/g	5 ug/g
Boron, available	0.5 ug/g	0.6	-	-	-	1.5 ug/g	1.5 ug/g
Boron	5.0 ug/g	6.7	-	-	<5.0	120 ug/g	120 ug/g
Cadmium	0.5 ug/g	<0.5	-	-	<0.5	1.2 ug/g	1.2 ug/g
Chromium	5.0 ug/g	19.6	-	-	20.4	160 ug/g	160 ug/g
Chromium (VI)	0.2 ug/g	<0.2	-	-	-	8 ug/g	10 ug/g
Cobalt	1.0 ug/g	10.2	-	-	8.4	22 ug/g	22 ug/g
Copper	5.0 ug/g	27.1	-	-	26.9	140 ug/g	180 ug/g
Lead	1.0 ug/g	11.0	-	-	20.4	120 ug/g	120 ug/g
Mercury	0.1 ug/g	<0.1	-	-	-	0.27 ug/g	1.8 ug/g
Molybdenum	1.0 ug/g	<1.0	-	-	<1.0	6.9 ug/g	6.9 ug/g
Nickel	5.0 ug/g	20.5	-	-	19.1	100 ug/g	130 ug/g
Selenium	1.0 ug/g	<1.0	-	-	<1.0	2.4 ug/g	2.4 ug/g
Silver	0.3 ug/g	<0.3	-	-	<0.3	20 ug/g	25 ug/g
Thallium	1.0 ug/g	<1.0	-	-	<1.0	1 ug/g	1 ug/g

	Client ID:	BH105 S2	BH105 S4	BH106 S1	BH107 S1	Criteria:	
	Sample Date:	13-Feb-24 12:58	13-Feb-24 12:58	13-Feb-24 01:20	13-Feb-24 01:36	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-09	2407497-10	2407497-11	2407497-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Uranium	1.0 ug/g	<1.0	-	-	<1.0	23 ug/g	23 ug/g
Vanadium	10.0 ug/g	27.6	-	-	28.9	86 ug/g	86 ug/g
Zinc	20.0 ug/g	53.3	-	-	67.9	340 ug/g	340 ug/g
Volatiles							
Benzene	0.02 ug/g	-	<0.02	<0.02	-	0.21 ug/g	0.17 ug/g
Ethylbenzene	0.05 ug/g	-	<0.05	<0.05	-	2 ug/g	15 ug/g
Toluene	0.05 ug/g	-	<0.05	<0.05	-	2.3 ug/g	6 ug/g
m,p-Xylenes	0.05 ug/g	-	<0.05	<0.05	-	-	-
o-Xylene	0.05 ug/g	-	<0.05	<0.05	-	-	-
Xylenes, total	0.05 ug/g	-	<0.05	<0.05	-	3.1 ug/g	25 ug/g
Toluene-d8	Surrogate	-	95.9%	98.4%	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	-	<7	<7	-	55 ug/g	65 ug/g
F2 PHCs (C10-C16)	4 ug/g	-	<4	<4	-	98 ug/g	150 ug/g
F3 PHCs (C16-C34)	8 ug/g	-	<8	<8	-	300 ug/g	1300 ug/g
F4 PHCs (C34-C50)	6 ug/g	-	<6	<6	-	2800 ug/g	5600 ug/g
Semi-Volatiles							
Acenaphthene	0.02 ug/g	<0.02	-	-	-	7.9 ug/g	58 ug/g
Acenaphthylene	0.02 ug/g	<0.02	-	-	-	0.15 ug/g	0.17 ug/g
Anthracene	0.02 ug/g	<0.02	-	-	-	0.67 ug/g	0.74 ug/g
Benzo [a] anthracene	0.02 ug/g	<0.02	-	-	-	0.5 ug/g	0.63 ug/g
Benzo [a] pyrene	0.02 ug/g	<0.02	-	-	-	0.3 ug/g	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	<0.02	-	-	-	0.78 ug/g	0.78 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	<0.02	-	-	-	6.6 ug/g	7.8 ug/g
Benzo [k] fluoranthene	0.02 ug/g	<0.02	-	-	-	0.78 ug/g	0.78 ug/g

	Client ID:	BH105 S2	BH105 S4	BH106 S1	BH107 S1	Criteria:	
	Sample Date:	13-Feb-24 12:58	13-Feb-24 12:58	13-Feb-24 01:20	13-Feb-24 01:36	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-09	2407497-10	2407497-11	2407497-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Chrysene	0.02 ug/g	<0.02	-	-	-	7 ug/g	7.8 ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	<0.02	-	-	-	0.1 ug/g	0.1 ug/g
Fluoranthene	0.02 ug/g	<0.02	-	-	-	0.69 ug/g	0.69 ug/g
Fluorene	0.02 ug/g	<0.02	-	-	-	62 ug/g	69 ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	<0.02	-	-	-	0.38 ug/g	0.48 ug/g
1-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	0.99 ug/g	3.4 ug/g
2-Methylnaphthalene	0.02 ug/g	<0.02	-	-	-	0.99 ug/g	3.4 ug/g
Methylnaphthalene (1&2)	0.04 ug/g	<0.04	-	-	-	0.99 ug/g	3.4 ug/g
Naphthalene	0.01 ug/g	<0.01	-	-	-	0.6 ug/g	0.75 ug/g
Phenanthrene	0.02 ug/g	<0.02	-	-	-	6.2 ug/g	7.8 ug/g
Pyrene	0.02 ug/g	<0.02	-	-	-	78 ug/g	78 ug/g
2-Fluorobiphenyl	Surrogate	50.2%	-	-	-	-	-
Terphenyl-d14	Surrogate	63.6%	-	-	-	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	-	-	-	<0.01	0.05 ug/g	0.05 ug/g
gamma-BHC (Lindane)	0.01 ug/g	-	-	-	<0.01	0.056 ug/g	0.063 ug/g
alpha-Chlordane	0.01 ug/g	-	-	-	<0.01	-	-
gamma-Chlordane	0.01 ug/g	-	-	-	<0.01	-	-
Chlordane	0.01 ug/g	-	-	-	<0.01	0.05 ug/g	0.05 ug/g
o,p'-DDD	0.01 ug/g	-	-	-	<0.01	-	-
p,p'-DDD	0.02 ug/g	-	-	-	0.02	-	-
DDD	0.02 ug/g	-	-	-	0.02	3.3 ug/g	3.3 ug/g
o,p'-DDE	0.01 ug/g	-	-	-	<0.01	-	-
p,p'-DDE	0.01 ug/g	-	-	-	0.31	-	-
DDE	0.01 ug/g	-	-	-	0.31	0.26 ug/g	0.33 ug/g

	Client ID:	BH105 S2	BH105 S4	BH106 S1	BH107 S1	Criteria:	
	Sample Date:	13-Feb-24 12:58	13-Feb-24 12:58	13-Feb-24 01:20	13-Feb-24 01:36	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-09	2407497-10	2407497-11	2407497-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
o,p'-DDT	0.01 ug/g	-	-	-	0.05	-	-
p,p'-DDT	0.01 ug/g	-	-	-	0.10	-	-
DDT	0.01 ug/g	-	-	-	0.15	1.4 ug/g	1.4 ug/g
Dieldrin	0.02 ug/g	-	-	-	<0.02	0.05 ug/g	0.05 ug/g
Endrin	0.02 ug/g	-	-	-	<0.02	0.04 ug/g	0.04 ug/g
Endosulfan I	0.01 ug/g	-	-	-	<0.01	-	-
Endosulfan II	0.02 ug/g	-	-	-	<0.02	-	-
Endosulfan I/II	0.02 ug/g	-	-	-	<0.02	0.04 ug/g	0.04 ug/g
Heptachlor	0.01 ug/g	-	-	-	<0.01	0.15 ug/g	0.15 ug/g
Heptachlor epoxide	0.01 ug/g	-	-	-	<0.01	0.05 ug/g	0.05 ug/g
Hexachlorobenzene	0.01 ug/g	-	-	-	<0.01	0.52 ug/g	0.52 ug/g
Hexachlorobutadiene	0.01 ug/g	-	-	-	<0.01	0.012 ug/g	0.014 ug/g
Hexachloroethane	0.01 ug/g	-	-	-	<0.01	0.089 ug/g	0.071 ug/g
Methoxychlor	0.01 ug/g	-	-	-	<0.01	0.13 ug/g	0.13 ug/g
Decachlorobiphenyl	Surrogate	-	-	-	113%	-	-
PCBs							
PCBs, total	0.05 ug/g	-	-	<0.50 [1]	-	0.35 ug/g	0.35 ug/g
Decachlorobiphenyl	Surrogate	-	-	106%	-	-	-

Certificate of Analysis

Report Date: 23-Feb-2024

Client: **G2S Environmental Consulting Inc. (Stouffville)**

Order Date: 16-Feb-2024

Client PO: **1840 + 1850 Bloor Street**

Project Description: G2S24012B

	Client ID:	BH107 S3	BH108 S1	BH109 S1	BH110 S1	Criteria:	
	Sample Date:	13-Feb-24 01:36	13-Feb-24 01:45	15-Feb-24 09:08	15-Feb-24 10:15	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-13	2407497-14	2407497-15	2407497-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	89.6	80.2	91.8	87.1	-	-
General Inorganics							
SAR	0.01 N/A	-	-	-	0.74	5 N/A	5 N/A
Conductivity	5 uS/cm	-	-	-	218	0.7 mS/cm	0.7 mS/cm
Cyanide, free	0.03 ug/g	-	-	-	<0.03	0.051 ug/g	0.051 ug/g
pH	0.05 pH Units	-	-	-	7.50	5.00 - 9.00 pH Units	5.00 - 9.00 pH Units
Metals							
Antimony	1.0 ug/g	-	<1.0	<1.0	<1.0	7.5 ug/g	7.5 ug/g
Arsenic	1.0 ug/g	-	8.1	1.6	6.7	18 ug/g	18 ug/g
Barium	1.0 ug/g	-	60.4	9.6	43.4	390 ug/g	390 ug/g
Beryllium	0.5 ug/g	-	0.5	<0.5	0.7	4 ug/g	5 ug/g
Boron, available	0.5 ug/g	-	-	-	<0.5	1.5 ug/g	1.5 ug/g
Boron	5.0 ug/g	-	<5.0	<5.0	6.1	120 ug/g	120 ug/g
Cadmium	0.5 ug/g	-	<0.5	<0.5	<0.5	1.2 ug/g	1.2 ug/g
Chromium (VI)	0.2 ug/g	-	-	-	<0.2	8 ug/g	10 ug/g
Chromium	5.0 ug/g	-	16.5	7.0	18.8	160 ug/g	160 ug/g
Cobalt	1.0 ug/g	-	6.1	2.6	9.4	22 ug/g	22 ug/g
Copper	5.0 ug/g	-	23.1	5.6	25.5	140 ug/g	180 ug/g
Lead	1.0 ug/g	-	29.3	2.1	12.6	120 ug/g	120 ug/g
Mercury	0.1 ug/g	-	-	-	<0.1	0.27 ug/g	1.8 ug/g
Molybdenum	1.0 ug/g	-	1.2	<1.0	<1.0	6.9 ug/g	6.9 ug/g
Nickel	5.0 ug/g	-	13.1	<5.0	19.1	100 ug/g	130 ug/g
Selenium	1.0 ug/g	-	<1.0	<1.0	<1.0	2.4 ug/g	2.4 ug/g
Silver	0.3 ug/g	-	<0.3	<0.3	<0.3	20 ug/g	25 ug/g
Thallium	1.0 ug/g	-	<1.0	<1.0	<1.0	1 ug/g	1 ug/g

Certificate of Analysis

Report Date: 23-Feb-2024

Client: G2S Environmental Consulting Inc. (Stouffville)

Order Date: 16-Feb-2024

Client PO: 1840 + 1850 Bloor Street

Project Description: G2S24012B

	Client ID:	BH107 S3	BH108 S1	BH109 S1	BH110 S1	Criteria:	
	Sample Date:	13-Feb-24 01:36	13-Feb-24 01:45	15-Feb-24 09:08	15-Feb-24 10:15	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-13	2407497-14	2407497-15	2407497-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Metals							
Uranium	1.0 ug/g	-	<1.0	<1.0	<1.0	23 ug/g	23 ug/g
Vanadium	10.0 ug/g	-	24.1	14.0	27.2	86 ug/g	86 ug/g
Zinc	20.0 ug/g	-	54.5	<20.0	48.7	340 ug/g	340 ug/g
Volatiles							
Benzene	0.02 ug/g	<0.02	-	-	-	0.21 ug/g	0.17 ug/g
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	2 ug/g	15 ug/g
Toluene	0.05 ug/g	<0.05	-	-	-	2.3 ug/g	6 ug/g
m,p-Xylenes	0.05 ug/g	<0.05	-	-	-	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	-	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	-	3.1 ug/g	25 ug/g
Toluene-d8	Surrogate	93.7%	-	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	-	-	-	55 ug/g	65 ug/g
F2 PHCs (C10-C16)	4 ug/g	<4	-	-	-	98 ug/g	150 ug/g
F3 PHCs (C16-C34)	8 ug/g	<8	-	-	-	300 ug/g	1300 ug/g
F4 PHCs (C34-C50)	6 ug/g	<6	-	-	-	2800 ug/g	5600 ug/g
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	-	-	<0.02	7.9 ug/g	58 ug/g
Acenaphthylene	0.02 ug/g	-	-	-	<0.02	0.15 ug/g	0.17 ug/g
Anthracene	0.02 ug/g	-	-	-	<0.02	0.67 ug/g	0.74 ug/g
Benzo [a] anthracene	0.02 ug/g	-	-	-	<0.02	0.5 ug/g	0.63 ug/g
Benzo [a] pyrene	0.02 ug/g	-	-	-	<0.02	0.3 ug/g	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	-	-	-	<0.02	0.78 ug/g	0.78 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	-	-	-	<0.02	6.6 ug/g	7.8 ug/g
Benzo [k] fluoranthene	0.02 ug/g	-	-	-	<0.02	0.78 ug/g	0.78 ug/g

	Client ID:	BH107 S3	BH108 S1	BH109 S1	BH110 S1	Criteria:	
	Sample Date:	13-Feb-24 01:36	13-Feb-24 01:45	15-Feb-24 09:08	15-Feb-24 10:15	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-13	2407497-14	2407497-15	2407497-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Chrysene	0.02 ug/g	-	-	-	<0.02	7 ug/g	7.8 ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	-	-	-	<0.02	0.1 ug/g	0.1 ug/g
Fluoranthene	0.02 ug/g	-	-	-	<0.02	0.69 ug/g	0.69 ug/g
Fluorene	0.02 ug/g	-	-	-	<0.02	62 ug/g	69 ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	-	-	<0.02	0.38 ug/g	0.48 ug/g
1-Methylnaphthalene	0.02 ug/g	-	-	-	<0.02	0.99 ug/g	3.4 ug/g
2-Methylnaphthalene	0.02 ug/g	-	-	-	<0.02	0.99 ug/g	3.4 ug/g
Methylnaphthalene (1&2)	0.04 ug/g	-	-	-	<0.04	0.99 ug/g	3.4 ug/g
Naphthalene	0.01 ug/g	-	-	-	<0.01	0.6 ug/g	0.75 ug/g
Phenanthrene	0.02 ug/g	-	-	-	<0.02	6.2 ug/g	7.8 ug/g
Pyrene	0.02 ug/g	-	-	-	<0.02	78 ug/g	78 ug/g
2-Fluorobiphenyl	Surrogate	-	-	-	53.5%	-	-
Terphenyl-d14	Surrogate	-	-	-	67.1%	-	-
Pesticides, OC							
Aldrin	0.01 ug/g	-	<0.01	<0.01	<0.01	0.05 ug/g	0.05 ug/g
gamma-BHC (Lindane)	0.01 ug/g	-	<0.01	<0.01	<0.01	0.056 ug/g	0.063 ug/g
alpha-Chlordane	0.01 ug/g	-	<0.01	<0.01	<0.01	-	-
gamma-Chlordane	0.01 ug/g	-	<0.01	<0.01	<0.01	-	-
Chlordane	0.01 ug/g	-	<0.01	<0.01	<0.01	0.05 ug/g	0.05 ug/g
o,p'-DDD	0.01 ug/g	-	<0.01	<0.01	<0.01	-	-
p,p'-DDD	0.02 ug/g	-	<0.02	<0.02	<0.02	-	-
DDD	0.02 ug/g	-	<0.02	<0.02	<0.02	3.3 ug/g	3.3 ug/g
o,p'-DDE	0.01 ug/g	-	<0.01	<0.01	<0.01	-	-
p,p'-DDE	0.01 ug/g	-	0.45	<0.01	0.21	-	-
DDE	0.01 ug/g	-	0.45	<0.01	0.21	0.26 ug/g	0.33 ug/g

Certificate of Analysis

Report Date: 23-Feb-2024

Client: G2S Environmental Consulting Inc. (Stouffville)

Order Date: 16-Feb-2024

Client PO: 1840 + 1850 Bloor Street

Project Description: G2S24012B

	Client ID:	BH107 S3	BH108 S1	BH109 S1	BH110 S1	Criteria:	
	Sample Date:	13-Feb-24 01:36	13-Feb-24 01:45	15-Feb-24 09:08	15-Feb-24 10:15	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-13	2407497-14	2407497-15	2407497-16		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Pesticides, OC							
o,p'-DDT	0.01 ug/g	-	<0.01	<0.01	<0.01	-	-
p,p'-DDT	0.01 ug/g	-	<0.01	<0.01	<0.01	-	-
DDT	0.01 ug/g	-	<0.01	<0.01	<0.01	1.4 ug/g	1.4 ug/g
Dieldrin	0.02 ug/g	-	<0.02	<0.02	<0.02	0.05 ug/g	0.05 ug/g
Endrin	0.02 ug/g	-	<0.02	<0.02	<0.02	0.04 ug/g	0.04 ug/g
Endosulfan I	0.01 ug/g	-	<0.01	<0.01	<0.01	-	-
Endosulfan II	0.02 ug/g	-	<0.02	<0.02	<0.02	-	-
Endosulfan I/II	0.02 ug/g	-	<0.02	<0.02	<0.02	0.04 ug/g	0.04 ug/g
Heptachlor	0.01 ug/g	-	<0.01	<0.01	<0.01	0.15 ug/g	0.15 ug/g
Heptachlor epoxide	0.01 ug/g	-	<0.01	<0.01	<0.01	0.05 ug/g	0.05 ug/g
Hexachlorobenzene	0.01 ug/g	-	<0.01	<0.01	<0.01	0.52 ug/g	0.52 ug/g
Hexachlorobutadiene	0.01 ug/g	-	<0.01	<0.01	<0.01	0.012 ug/g	0.014 ug/g
Hexachloroethane	0.01 ug/g	-	<0.01	<0.01	<0.01	0.089 ug/g	0.071 ug/g
Methoxychlor	0.01 ug/g	-	<0.01	<0.01	<0.01	0.13 ug/g	0.13 ug/g
Decachlorobiphenyl	Surrogate	-	126%	111%	110%	-	-

Certificate of Analysis

Report Date: 23-Feb-2024

Client: G2S Environmental Consulting Inc. (Stouffville)

Order Date: 16-Feb-2024

Client PO: 1840 + 1850 Bloor Street

Project Description: G2S24012B

	Client ID:	BH111 S1	BH112 S5	BH113 S2	BH114 S1	Criteria:	
	Sample Date:	15-Feb-24 11:16	13-Feb-24 09:14	13-Feb-24 12:58	13-Feb-24 01:20	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-17	2407497-18	2407497-19	2407497-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	88.0	83.9	84.0	81.7	-	-
Volatiles							
Acetone	0.50 ug/g	-	<0.50	-	-	16 ug/g	28 ug/g
Benzene	0.02 ug/g	-	<0.02	-	-	0.21 ug/g	0.17 ug/g
Bromodichloromethane	0.05 ug/g	-	<0.05	-	-	13 ug/g	13 ug/g
Bromoform	0.05 ug/g	-	<0.05	-	-	0.27 ug/g	0.26 ug/g
Bromomethane	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	0.05 ug/g
Carbon Tetrachloride	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	0.12 ug/g
Chlorobenzene	0.05 ug/g	-	<0.05	-	-	2.4 ug/g	2.7 ug/g
Chloroform	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	0.18 ug/g
Dibromochloromethane	0.05 ug/g	-	<0.05	-	-	9.4 ug/g	9.4 ug/g
Dichlorodifluoromethane	0.05 ug/g	-	<0.05	-	-	16 ug/g	25 ug/g
1,2-Dichlorobenzene	0.05 ug/g	-	<0.05	-	-	3.4 ug/g	4.3 ug/g
1,3-Dichlorobenzene	0.05 ug/g	-	<0.05	-	-	4.8 ug/g	6 ug/g
1,4-Dichlorobenzene	0.05 ug/g	-	<0.05	-	-	0.083 ug/g	0.097 ug/g
1,1-Dichloroethane	0.05 ug/g	-	<0.05	-	-	3.5 ug/g	11 ug/g
1,2-Dichloroethane	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	0.05 ug/g
1,1-Dichloroethylene	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	0.05 ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	-	3.4 ug/g	30 ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	-	<0.05	-	-	0.084 ug/g	0.75 ug/g
1,2-Dichloropropane	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	0.085 ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	-	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	<0.05	-	-	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	0.083 ug/g
Ethylbenzene	0.05 ug/g	-	<0.05	-	-	2 ug/g	15 ug/g

	Client ID:	BH111 S1	BH112 S5	BH113 S2	BH114 S1	Criteria:	
	Sample Date:	15-Feb-24 11:16	13-Feb-24 09:14	13-Feb-24 12:58	13-Feb-24 01:20	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-17	2407497-18	2407497-19	2407497-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	0.05 ug/g
Hexane	0.05 ug/g	-	<0.05	-	-	2.8 ug/g	34 ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	<0.50	-	-	16 ug/g	44 ug/g
Methyl Isobutyl Ketone	0.50 ug/g	-	<0.50	-	-	1.7 ug/g	4.3 ug/g
Methyl tert-butyl ether	0.05 ug/g	-	<0.05	-	-	0.75 ug/g	1.4 ug/g
Methylene Chloride	0.05 ug/g	-	<0.05	-	-	0.1 ug/g	0.96 ug/g
Styrene	0.05 ug/g	-	<0.05	-	-	0.7 ug/g	2.2 ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	-	0.058 ug/g	0.05 ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	0.05 ug/g
Tetrachloroethylene	0.05 ug/g	-	<0.05	-	-	0.28 ug/g	2.3 ug/g
Toluene	0.05 ug/g	-	<0.05	-	-	2.3 ug/g	6 ug/g
1,1,1-Trichloroethane	0.05 ug/g	-	<0.05	-	-	0.38 ug/g	3.4 ug/g
1,1,2-Trichloroethane	0.05 ug/g	-	<0.05	-	-	0.05 ug/g	0.05 ug/g
Trichloroethylene	0.05 ug/g	-	<0.05	-	-	0.061 ug/g	0.52 ug/g
Trichlorofluoromethane	0.05 ug/g	-	<0.05	-	-	4 ug/g	5.8 ug/g
Vinyl chloride	0.02 ug/g	-	<0.02	-	-	0.02 ug/g	0.022 ug/g
m,p-Xylenes	0.05 ug/g	-	<0.05	-	-	-	-
o-Xylene	0.05 ug/g	-	<0.05	-	-	-	-
Xylenes, total	0.05 ug/g	-	<0.05	-	-	3.1 ug/g	25 ug/g
Toluene-d8	Surrogate	-	95.8%	-	-	-	-
Dibromofluoromethane	Surrogate	-	127%	-	-	-	-
4-Bromofluorobenzene	Surrogate	-	108%	-	-	-	-
Benzene	0.02 ug/g	<0.02	-	-	-	0.21 ug/g	0.17 ug/g
Ethylbenzene	0.05 ug/g	<0.05	-	-	-	2 ug/g	15 ug/g
Toluene	0.05 ug/g	<0.05	-	-	-	2.3 ug/g	6 ug/g

	Client ID:	BH111 S1	BH112 S5	BH113 S2	BH114 S1	Criteria:	
	Sample Date:	15-Feb-24 11:16	13-Feb-24 09:14	13-Feb-24 12:58	13-Feb-24 01:20	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-17	2407497-18	2407497-19	2407497-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
m,p-Xylenes	0.05 ug/g	0.11	-	-	-	-	-
o-Xylene	0.05 ug/g	0.17	-	-	-	-	-
Xylenes, total	0.05 ug/g	0.28	-	-	-	3.1 ug/g	25 ug/g
Toluene-d8	Surrogate	98.0%	-	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	7 ug/g	<7	<7	-	-	55 ug/g	65 ug/g
F2 PHCs (C10-C16)	4 ug/g	<4	<4	-	-	98 ug/g	150 ug/g
F3 PHCs (C16-C34)	8 ug/g	<8	87	-	-	300 ug/g	1300 ug/g
F4 PHCs (C34-C50)	6 ug/g	<6	<6	-	-	2800 ug/g	5600 ug/g
Semi-Volatiles							
Acenaphthene	0.02 ug/g	-	-	<0.02	-	7.9 ug/g	58 ug/g
Acenaphthylene	0.02 ug/g	-	-	<0.02	-	0.15 ug/g	0.17 ug/g
Anthracene	0.02 ug/g	-	-	<0.02	-	0.67 ug/g	0.74 ug/g
Benzo [a] anthracene	0.02 ug/g	-	-	<0.02	-	0.5 ug/g	0.63 ug/g
Benzo [a] pyrene	0.02 ug/g	-	-	<0.02	-	0.3 ug/g	0.3 ug/g
Benzo [b] fluoranthene	0.02 ug/g	-	-	<0.02	-	0.78 ug/g	0.78 ug/g
Benzo [g,h,i] perylene	0.02 ug/g	-	-	<0.02	-	6.6 ug/g	7.8 ug/g
Benzo [k] fluoranthene	0.02 ug/g	-	-	<0.02	-	0.78 ug/g	0.78 ug/g
Chrysene	0.02 ug/g	-	-	<0.02	-	7 ug/g	7.8 ug/g
Dibenzo [a,h] anthracene	0.02 ug/g	-	-	<0.02	-	0.1 ug/g	0.1 ug/g
Fluoranthene	0.02 ug/g	-	-	<0.02	-	0.69 ug/g	0.69 ug/g
Fluorene	0.02 ug/g	-	-	<0.02	-	62 ug/g	69 ug/g
Indeno [1,2,3-cd] pyrene	0.02 ug/g	-	-	<0.02	-	0.38 ug/g	0.48 ug/g
1-Methylnaphthalene	0.02 ug/g	-	-	<0.02	-	0.99 ug/g	3.4 ug/g
2-Methylnaphthalene	0.02 ug/g	-	-	<0.02	-	0.99 ug/g	3.4 ug/g

	Client ID:	BH111 S1	BH112 S5	BH113 S2	BH114 S1	Criteria:	
	Sample Date:	15-Feb-24 11:16	13-Feb-24 09:14	13-Feb-24 12:58	13-Feb-24 01:20	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-17	2407497-18	2407497-19	2407497-20		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Semi-Volatiles							
Methylnaphthalene (1&2)	0.04 ug/g	-	-	<0.04	-	0.99 ug/g	3.4 ug/g
Naphthalene	0.01 ug/g	-	-	<0.01	-	0.6 ug/g	0.75 ug/g
Phenanthrene	0.02 ug/g	-	-	<0.02	-	6.2 ug/g	7.8 ug/g
Pyrene	0.02 ug/g	-	-	<0.02	-	78 ug/g	78 ug/g
2-Fluorobiphenyl	Surrogate	-	-	67.4%	-	-	-
Terphenyl-d14	Surrogate	-	-	81.4%	-	-	-
PCBs							
PCBs, total	0.05 ug/g	<0.05	-	-	<0.50 [1]	0.35 ug/g	0.35 ug/g
Decachlorobiphenyl	Surrogate	108%	-	-	113%	-	-

Certificate of Analysis

Report Date: 23-Feb-2024

Client: G2S Environmental Consulting Inc. (Stouffville)

Order Date: 16-Feb-2024

Client PO: 1840 + 1850 Bloor Street

Project Description: G2S24012B

	Client ID:	BH115 S1				Criteria:	
	Sample Date:	15-Feb-24 09:08				Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-21					
	Matrix:	Soil					
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	90.8	-	-	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	-	-	7.5 ug/g	7.5 ug/g
Arsenic	1.0 ug/g	1.9	-	-	-	18 ug/g	18 ug/g
Barium	1.0 ug/g	13.2	-	-	-	390 ug/g	390 ug/g
Beryllium	0.5 ug/g	<0.5	-	-	-	4 ug/g	5 ug/g
Boron	5.0 ug/g	<5.0	-	-	-	120 ug/g	120 ug/g
Cadmium	0.5 ug/g	<0.5	-	-	-	1.2 ug/g	1.2 ug/g
Chromium	5.0 ug/g	8.9	-	-	-	160 ug/g	160 ug/g
Cobalt	1.0 ug/g	3.9	-	-	-	22 ug/g	22 ug/g
Copper	5.0 ug/g	7.9	-	-	-	140 ug/g	180 ug/g
Lead	1.0 ug/g	2.3	-	-	-	120 ug/g	120 ug/g
Molybdenum	1.0 ug/g	<1.0	-	-	-	6.9 ug/g	6.9 ug/g
Nickel	5.0 ug/g	6.9	-	-	-	100 ug/g	130 ug/g
Selenium	1.0 ug/g	<1.0	-	-	-	2.4 ug/g	2.4 ug/g
Silver	0.3 ug/g	<0.3	-	-	-	20 ug/g	25 ug/g
Thallium	1.0 ug/g	<1.0	-	-	-	1 ug/g	1 ug/g
Uranium	1.0 ug/g	<1.0	-	-	-	23 ug/g	23 ug/g
Vanadium	10.0 ug/g	16.3	-	-	-	86 ug/g	86 ug/g
Zinc	20.0 ug/g	<20.0	-	-	-	340 ug/g	340 ug/g
Pesticides, OC							
Aldrin	0.01 ug/g	<0.01	-	-	-	0.05 ug/g	0.05 ug/g
gamma-BHC (Lindane)	0.01 ug/g	<0.01	-	-	-	0.056 ug/g	0.063 ug/g
alpha-Chlordane	0.01 ug/g	<0.01	-	-	-	-	-
gamma-Chlordane	0.01 ug/g	<0.01	-	-	-	-	-

Certificate of Analysis

Report Date: 23-Feb-2024

Client: G2S Environmental Consulting Inc. (Stouffville)

Order Date: 16-Feb-2024

Client PO: 1840 + 1850 Bloor Street

Project Description: G2S24012B

	Client ID:	BH115 S1				Criteria:	
	Sample Date:	15-Feb-24 09:08				Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2407497-21					
	Matrix:	Soil					
	MDL/Units						
Pesticides, OC							
Chlordane	0.01 ug/g	<0.01	-	-	-	0.05 ug/g	0.05 ug/g
o,p'-DDD	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDD	0.02 ug/g	<0.02	-	-	-	-	-
DDD	0.02 ug/g	<0.02	-	-	-	3.3 ug/g	3.3 ug/g
o,p'-DDE	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDE	0.01 ug/g	<0.01	-	-	-	-	-
DDE	0.01 ug/g	<0.01	-	-	-	0.26 ug/g	0.33 ug/g
o,p'-DDT	0.01 ug/g	<0.01	-	-	-	-	-
p,p'-DDT	0.01 ug/g	<0.01	-	-	-	-	-
DDT	0.01 ug/g	<0.01	-	-	-	1.4 ug/g	1.4 ug/g
Dieldrin	0.02 ug/g	<0.02	-	-	-	0.05 ug/g	0.05 ug/g
Endrin	0.02 ug/g	<0.02	-	-	-	0.04 ug/g	0.04 ug/g
Endosulfan I	0.01 ug/g	<0.01	-	-	-	-	-
Endosulfan II	0.02 ug/g	<0.02	-	-	-	-	-
Endosulfan I/II	0.02 ug/g	<0.02	-	-	-	0.04 ug/g	0.04 ug/g
Heptachlor	0.01 ug/g	<0.01	-	-	-	0.15 ug/g	0.15 ug/g
Heptachlor epoxide	0.01 ug/g	<0.01	-	-	-	0.05 ug/g	0.05 ug/g
Hexachlorobenzene	0.01 ug/g	<0.01	-	-	-	0.52 ug/g	0.52 ug/g
Hexachlorobutadiene	0.01 ug/g	<0.01	-	-	-	0.012 ug/g	0.014 ug/g
Hexachloroethane	0.01 ug/g	<0.01	-	-	-	0.089 ug/g	0.071 ug/g
Methoxychlor	0.01 ug/g	<0.01	-	-	-	0.13 ug/g	0.13 ug/g
Decachlorobiphenyl	Surrogate	115%	-	-	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics								
Conductivity	ND	5	uS/cm					
Cyanide, free	ND	0.03	ug/g					
Hydrocarbons								
F1 PHCs (C6-C10)	ND	7	ug/g					
F2 PHCs (C10-C16)	ND	4	ug/g					
F3 PHCs (C16-C34)	ND	8	ug/g					
F4 PHCs (C34-C50)	ND	6	ug/g					
Metals								
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron, available	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium (VI)	ND	0.2	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Mercury	ND	0.1	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
PCBs								
PCBs, total	ND	0.05	ug/g					
Surrogate: Decachlorobiphenyl	*0.116*		*%*	*116*	*60-140*			

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Pesticides, OC								
Aldrin	ND	0.01	ug/g					
gamma-BHC (Lindane)	ND	0.01	ug/g					
alpha-Chlordane	ND	0.01	ug/g					
gamma-Chlordane	ND	0.01	ug/g					
Chlordane	ND	0.01	ug/g					
o,p'-DDD	ND	0.01	ug/g					
p,p'-DDD	ND	0.02	ug/g					
DDD	ND	0.02	ug/g					
o,p'-DDE	ND	0.01	ug/g					
p,p'-DDE	ND	0.01	ug/g					
DDE	ND	0.01	ug/g					
o,p'-DDT	ND	0.01	ug/g					
p,p'-DDT	ND	0.01	ug/g					
DDT	ND	0.01	ug/g					
Dieldrin	ND	0.02	ug/g					
Endrin	ND	0.02	ug/g					
Endosulfan I	ND	0.01	ug/g					
Endosulfan II	ND	0.02	ug/g					
Endosulfan I/II	ND	0.02	ug/g					
Heptachlor	ND	0.01	ug/g					
Heptachlor epoxide	ND	0.01	ug/g					
Hexachlorobenzene	ND	0.01	ug/g					
Hexachlorobutadiene	ND	0.01	ug/g					
Hexachloroethane	ND	0.01	ug/g					
Methoxychlor	ND	0.01	ug/g					
Surrogate: Decachlorobiphenyl	*0.133*		*%*	*133*	*50-140*			
Semi-Volatiles								
Acenaphthene	ND	0.02	ug/g					
Acenaphthylene	ND	0.02	ug/g					
Anthracene	ND	0.02	ug/g					
Benzo [a] anthracene	ND	0.02	ug/g					
Benzo [a] pyrene	ND	0.02	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzo [b] fluoranthene	ND	0.02	ug/g					
Benzo [g,h,i] perylene	ND	0.02	ug/g					
Benzo [k] fluoranthene	ND	0.02	ug/g					
Chrysene	ND	0.02	ug/g					
Dibenzo [a,h] anthracene	ND	0.02	ug/g					
Fluoranthene	ND	0.02	ug/g					
Fluorene	ND	0.02	ug/g					
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g					
1-Methylnaphthalene	ND	0.02	ug/g					
2-Methylnaphthalene	ND	0.02	ug/g					
Methylnaphthalene (1&2)	ND	0.04	ug/g					
Naphthalene	ND	0.01	ug/g					
Phenanthrene	ND	0.02	ug/g					
Pyrene	ND	0.02	ug/g					
Surrogate: 2-Fluorobiphenyl	*0.855*		*%*	*64.1*	*50-140*			
Surrogate: Terphenyl-d14	*1.13*		*%*	*84.8*	*50-140*			
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: 4-Bromofluorobenzene	*8.32*		*%*	*104*	*50-140*			
Surrogate: Dibromofluoromethane	*9.44*		*%*	*118*	*50-140*			
Surrogate: Toluene-d8	*7.26*		*%*	*90.8*	*50-140*			
Benzene	ND	0.02	ug/g					
Ethylbenzene	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Toluene	ND	0.05	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					
Surrogate: Toluene-d8	*7.26*		*%*	*90.8*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	1.59	0.01	N/A	1.85			15.1	30	
Conductivity	453	5	uS/cm	453			0.0	5	
Cyanide, free	ND	0.03	ug/g	ND			NC	35	
pH	7.37	0.05	pH Units	7.38			0.1	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g	ND			NC	30	
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	8.6	1.0	ug/g	8.4			2.9	30	
Barium	59.2	1.0	ug/g	62.4			5.3	30	
Beryllium	0.6	0.5	ug/g	0.6			5.6	30	
Boron, available	ND	0.5	ug/g	ND			NC	35	
Boron	8.3	5.0	ug/g	9.6			14.6	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	ND	0.2	ug/g	ND			NC	35	
Chromium	19.2	5.0	ug/g	19.1			1.0	30	
Cobalt	9.9	1.0	ug/g	9.4			5.2	30	
Copper	16.6	5.0	ug/g	16.2			2.7	30	
Lead	8.4	1.0	ug/g	8.6			2.7	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	2.7	1.0	ug/g	2.8			3.4	30	
Nickel	23.3	5.0	ug/g	22.7			2.4	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	29.1	10.0	ug/g	30.1			3.3	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Zinc	45.1	20.0	ug/g	43.6			3.4	30	
PCBs									
PCBs, total	ND	0.05	ug/g	ND			NC	40	
Surrogate: Decachlorobiphenyl	*0.162*		*%*		*121*	*60-140*			
Pesticides, OC									
Aldrin	ND	0.01	ug/g	ND			NC	40	
gamma-BHC (Lindane)	ND	0.01	ug/g	ND			NC	40	
alpha-Chlordane	ND	0.01	ug/g	ND			NC	40	
gamma-Chlordane	ND	0.01	ug/g	ND			NC	40	
o,p'-DDD	ND	0.01	ug/g	ND			NC	40	
p,p'-DDD	ND	0.02	ug/g	ND			NC	40	
o,p'-DDE	ND	0.01	ug/g	ND			NC	40	
p,p'-DDE	ND	0.01	ug/g	ND			NC	40	
o,p'-DDT	ND	0.01	ug/g	ND			NC	40	
p,p'-DDT	ND	0.01	ug/g	ND			NC	40	
Dieldrin	ND	0.02	ug/g	ND			NC	40	
Endrin	ND	0.02	ug/g	ND			NC	40	
Endosulfan I	ND	0.01	ug/g	ND			NC	40	
Endosulfan II	ND	0.02	ug/g	ND			NC	40	
Heptachlor	ND	0.01	ug/g	ND			NC	40	
Heptachlor epoxide	ND	0.01	ug/g	ND			NC	40	
Hexachlorobenzene	ND	0.01	ug/g	ND			NC	40	
Hexachlorobutadiene	ND	0.01	ug/g	ND			NC	40	
Hexachloroethane	ND	0.01	ug/g	ND			NC	40	
Methoxychlor	ND	0.01	ug/g	ND			NC	40	
Surrogate: Decachlorobiphenyl	*0.136*		*%*		*110*	*50-140*			
Physical Characteristics									
% Solids	88.7	0.1	% by Wt.	88.0			0.8	25	
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g	ND			NC	40	
Acenaphthylene	ND	0.02	ug/g	ND			NC	40	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] anthracene	ND	0.02	ug/g	ND			NC	40	
Benzo [a] pyrene	ND	0.02	ug/g	ND			NC	40	
Benzo [b] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Benzo [g,h,i] perylene	ND	0.02	ug/g	ND			NC	40	
Benzo [k] fluoranthene	ND	0.02	ug/g	ND			NC	40	
Chrysene	ND	0.02	ug/g	ND			NC	40	
Dibenzo [a,h] anthracene	ND	0.02	ug/g	ND			NC	40	
Fluoranthene	ND	0.02	ug/g	ND			NC	40	
Fluorene	ND	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g	ND			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	ND	0.01	ug/g	ND			NC	40	
Phenanthrene	ND	0.02	ug/g	ND			NC	40	
Pyrene	ND	0.02	ug/g	ND			NC	40	
Surrogate: 2-Fluorobiphenyl	*0.909*		*%*		*58.7*	*50-140*			
Surrogate: Terphenyl-d14	*1.00*		*%*		*64.9*	*50-140*			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	0.278	0.05	ug/g	0.210			27.9	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	0.694	0.05	ug/g	0.609			13.1	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	*9.67*		*%*		*105*	*50-140*			
Surrogate: Dibromofluoromethane	*10.9*		*%*		*117*	*50-140*			
Surrogate: Toluene-d8	*8.86*		*%*		*95.9*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Benzene	ND	0.02	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: Toluene-d8	*8.86*		*%*		*95.9*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Cyanide, free	0.317	0.03	ug/g	ND	90.7	50-150			
Hydrocarbons									
F1 PHCs (C6-C10)	171	7	ug/g	ND	99.5	85-115			
F2 PHCs (C10-C16)	82	4	ug/g	ND	91.7	60-140			
F3 PHCs (C16-C34)	246	8	ug/g	ND	112	60-140			
F4 PHCs (C34-C50)	171	6	ug/g	ND	123	60-140			
Metals									
Arsenic	49.5	1.0	ug/g	3.4	92.2	70-130			
Barium	64.2	1.0	ug/g	25.0	78.5	70-130			
Beryllium	42.5	0.5	ug/g	ND	84.5	70-130			
Boron, available	4.79	0.5	ug/g	ND	95.8	70-122			
Boron	40.0	5.0	ug/g	ND	72.3	70-130			
Cadmium	39.9	0.5	ug/g	ND	79.7	70-130			
Chromium (VI)	4.6	0.2	ug/g	ND	79.5	70-130			
Chromium	52.8	5.0	ug/g	7.6	90.3	70-130			
Cobalt	46.8	1.0	ug/g	3.8	86.1	70-130			
Copper	47.8	5.0	ug/g	6.5	82.7	70-130			
Lead	44.7	1.0	ug/g	3.4	82.5	70-130			
Mercury	1.48	0.1	ug/g	ND	98.7	70-130			
Molybdenum	42.8	1.0	ug/g	1.1	83.3	70-130			
Nickel	50.6	5.0	ug/g	9.1	83.0	70-130			
Selenium	42.8	1.0	ug/g	ND	85.6	70-130			
Silver	39.6	0.3	ug/g	ND	79.2	70-130			
Thallium	42.6	1.0	ug/g	ND	85.1	70-130			
Uranium	45.3	1.0	ug/g	ND	89.9	70-130			
Vanadium	56.2	10.0	ug/g	12.0	88.2	70-130			
Zinc	56.4	20.0	ug/g	ND	77.9	70-130			
PCBs									
PCBs, total	0.728	0.05	ug/g	ND	136	60-140			
Surrogate: Decachlorobiphenyl	*0.176*		*%*		*132*	*60-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Pesticides, OC									
Aldrin	0.28	0.01	ug/g	ND	113	50-140			
gamma-BHC (Lindane)	0.23	0.01	ug/g	ND	91.1	50-140			
alpha-Chlordane	0.29	0.01	ug/g	ND	115	50-140			
gamma-Chlordane	0.27	0.01	ug/g	ND	110	50-140			
o,p'-DDD	0.29	0.01	ug/g	ND	118	50-140			
p,p'-DDD	0.28	0.02	ug/g	ND	111	50-140			
o,p'-DDE	0.25	0.01	ug/g	ND	101	50-140			
p,p'-DDE	0.27	0.01	ug/g	ND	108	50-140			
o,p'-DDT	0.31	0.01	ug/g	ND	125	50-140			
p,p'-DDT	0.28	0.01	ug/g	ND	112	50-140			
Dieldrin	0.16	0.02	ug/g	ND	64.9	50-140			
Endrin	0.15	0.02	ug/g	ND	61.2	50-140			
Endosulfan I	0.27	0.01	ug/g	ND	108	50-140			
Heptachlor	0.30	0.01	ug/g	ND	119	50-140			
Heptachlor epoxide	0.28	0.01	ug/g	ND	111	50-140			
Hexachlorobenzene	0.20	0.01	ug/g	ND	79.3	50-140			
Hexachlorobutadiene	0.27	0.01	ug/g	ND	109	50-140			
Hexachloroethane	0.23	0.01	ug/g	ND	90.5	50-140			
Methoxychlor	0.29	0.01	ug/g	ND	116	50-140			
Surrogate: Decachlorobiphenyl	*0.146*		*%*		*117*	*50-140*			
Semi-Volatiles									
Acenaphthene	0.140	0.02	ug/g	ND	72.4	50-140			
Acenaphthylene	0.143	0.02	ug/g	ND	74.0	50-140			
Anthracene	0.158	0.02	ug/g	ND	81.6	50-140			
Benzo [a] anthracene	0.137	0.02	ug/g	ND	70.9	50-140			
Benzo [a] pyrene	0.132	0.02	ug/g	ND	68.4	50-140			
Benzo [b] fluoranthene	0.130	0.02	ug/g	ND	67.1	50-140			
Benzo [g,h,i] perylene	0.111	0.02	ug/g	ND	57.5	50-140			
Benzo [k] fluoranthene	0.128	0.02	ug/g	ND	66.2	50-140			
Chrysene	0.156	0.02	ug/g	ND	80.5	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dibenzo [a,h] anthracene	0.111	0.02	ug/g	ND	57.5	50-140			
Fluoranthene	0.157	0.02	ug/g	ND	80.9	50-140			
Fluorene	0.142	0.02	ug/g	ND	73.2	50-140			
Indeno [1,2,3-cd] pyrene	0.112	0.02	ug/g	ND	58.1	50-140			
1-Methylnaphthalene	0.125	0.02	ug/g	ND	64.6	50-140			
2-Methylnaphthalene	0.128	0.02	ug/g	ND	66.4	50-140			
Naphthalene	0.139	0.01	ug/g	ND	72.1	50-140			
Phenanthrene	0.148	0.02	ug/g	ND	76.2	50-140			
Pyrene	0.161	0.02	ug/g	ND	83.3	50-140			
Surrogate: 2-Fluorobiphenyl	*1.03*		*%*		*66.8*	*50-140*			
Surrogate: Terphenyl-d14	*1.45*		*%*		*93.9*	*50-140*			
Volatiles									
Acetone	9.46	0.50	ug/g	ND	94.6	50-140			
Benzene	2.75	0.02	ug/g	ND	68.6	60-130			
Bromodichloromethane	2.84	0.05	ug/g	ND	71.0	60-130			
Bromoform	3.28	0.05	ug/g	ND	82.0	60-130			
Bromomethane	2.71	0.05	ug/g	ND	67.7	50-140			
Carbon Tetrachloride	2.69	0.05	ug/g	ND	67.2	60-130			
Chlorobenzene	3.27	0.05	ug/g	ND	81.9	60-130			
Chloroform	2.93	0.05	ug/g	ND	73.3	60-130			
Dibromochloromethane	3.20	0.05	ug/g	ND	80.0	60-130			
Dichlorodifluoromethane	3.03	0.05	ug/g	ND	75.7	50-140			
1,2-Dichlorobenzene	2.81	0.05	ug/g	ND	70.2	60-130			
1,3-Dichlorobenzene	2.82	0.05	ug/g	ND	70.6	60-130			
1,4-Dichlorobenzene	2.73	0.05	ug/g	ND	68.4	60-130			
1,1-Dichloroethane	3.01	0.05	ug/g	ND	75.3	60-130			
1,2-Dichloroethane	2.95	0.05	ug/g	ND	73.6	60-130			
1,1-Dichloroethylene	2.82	0.05	ug/g	ND	70.4	60-130			
cis-1,2-Dichloroethylene	3.12	0.05	ug/g	ND	78.0	60-130			
trans-1,2-Dichloroethylene	2.81	0.05	ug/g	ND	70.2	60-130			
1,2-Dichloropropane	2.93	0.05	ug/g	ND	73.1	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
cis-1,3-Dichloropropylene	3.03	0.05	ug/g	ND	75.6	60-130			
trans-1,3-Dichloropropylene	2.69	0.05	ug/g	ND	67.2	60-130			
Ethylbenzene	3.44	0.05	ug/g	ND	86.1	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	2.77	0.05	ug/g	ND	69.1	60-130			
Hexane	2.78	0.05	ug/g	ND	69.4	60-130			
Methyl Ethyl Ketone (2-Butanone)	8.16	0.50	ug/g	ND	81.6	50-140			
Methyl Isobutyl Ketone	7.65	0.50	ug/g	ND	76.5	50-140			
Methyl tert-butyl ether	6.53	0.05	ug/g	ND	65.3	50-140			
Methylene Chloride	2.87	0.05	ug/g	ND	71.7	60-130			
Styrene	3.66	0.05	ug/g	ND	91.6	60-130			
1,1,1,2-Tetrachloroethane	2.71	0.05	ug/g	ND	67.8	60-130			
1,1,2,2-Tetrachloroethane	4.59	0.05	ug/g	ND	115	60-130			
Tetrachloroethylene	2.97	0.05	ug/g	ND	74.3	60-130			
Toluene	3.45	0.05	ug/g	ND	86.4	60-130			
1,1,1-Trichloroethane	2.78	0.05	ug/g	ND	69.5	60-130			
1,1,2-Trichloroethane	2.94	0.05	ug/g	ND	73.4	60-130			
Trichloroethylene	2.63	0.05	ug/g	ND	65.8	60-130			
Trichlorofluoromethane	2.77	0.05	ug/g	ND	69.2	50-140			
Vinyl chloride	2.75	0.02	ug/g	ND	68.9	50-140			
m,p-Xylenes	7.50	0.05	ug/g	ND	93.7	60-130			
o-Xylene	3.85	0.05	ug/g	ND	96.2	60-130			
Surrogate: 4-Bromofluorobenzene	*8.33*		*%*		*104*	*50-140*			
Surrogate: Dibromofluoromethane	*8.17*		*%*		*102*	*50-140*			
Surrogate: Toluene-d8	*8.16*		*%*		*102*	*50-140*			
Benzene	2.75	0.02	ug/g	ND	68.6	60-130			
Ethylbenzene	3.44	0.05	ug/g	ND	86.1	60-130			
Toluene	3.45	0.05	ug/g	ND	86.4	60-130			
m,p-Xylenes	7.50	0.05	ug/g	ND	93.7	60-130			
o-Xylene	3.85	0.05	ug/g	ND	96.2	60-130			
Surrogate: Toluene-d8	*8.16*		*%*		*102*	*50-140*			

Qualifier Notes:

Sample Qualifiers :

1: The PCB chromatogram contained many peaks, however, the fingerprint pattern was not consistent with any Aroclor patterns. Results reported with an elevated reporting limit.

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unlesss otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

PARACEL LABORATORIES LTD

Paracel ID: 2407497

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
2407497	№ 143579

Client Name: G2S Consulting Inc.	Project Ref: G2S24012B	Page 1 of 3
Contact Name: Rachael Lesmeister	Quote #: 24-109	Turnaround Time
Address: 37 Sandford Dr. Suite 411 Stouffville, ON L4A 3Z2	PO #: 1840 & 1850 Bloor Street	☐ 1 day ☐ 3 day
	E-mail: stephaniel@g2sconsulting.com rachaell@ " "	☐ 2 day ☒ Regular
Telephone: 416-275-3954		Date Required:

☒ REG 153/04 ☐ REG 406/19	Other Regulation
☐ Table 1 ☒ Res/Park ☐ Med/Fine	☐ REG 558 ☐ PWQO
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ CCME ☐ MISA
☒ Table 3 ☐ Agri/Other	☐ SU - Sani ☐ SU - Storm
☐ Table ___	Mun:
For RSC: ☒ Yes ☐ No	☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	Metals & Inorganics	PCBs	Grain Size (Sieve test)	pH	OC Pesticides
1	BH101 S5	S		2	Feb 13/24	~~10:09~~ 9:14	X	X										
2	BH101 S6	S		1		~~10:09~~ 9:14										X		
3	BH102 S1	S		1		10:32				X								X
4	BH102 S5	S		1		10:32											X	
5	BH102 S6	S		2		10:32	X	X										
6	BH103 S3	S		2		12:31			X					X				
7	BH104 S1	S		1		12:45				X								X
8	BH105 S1	S		1		12:58				X								X
9	BH105 S2	S		1		12:58			X					X				
10	BH105 S4	S		2		12:58	X											

Comments: Limited amount of sample volume.

Method of Delivery: RABBLE ☒

Relinquished By (Sign): Rachael Lesmeister	Received By Driver/Depot:	Received By Lab:	Verified By:
Relinquished By (Print): Rachael Lesmeister	Date/Time: 16-Feb 24 1353	Date/Time: Feb 17 2024 11:19	Date/Time: Feb 17 2024 11:43
Date/Time: Feb 16 24 1:26	Temperature: 1.9 °C	Temperature: 6.3 °C	pH Verified: ☐ By:

PARACE LABORATORIES L

Paracel ID: 2407497

Blvd. 4J8 | bs.com m

Paracel Order Number (Lab Use Only)

Chain Of Custody (Lab Use Only)

№ 142675

Client Name: G2S Consulting Inc.	Project Ref: G2S24012B
Contact Name: Rachael Lesmeister	Quote #: 24-109
Address: 37 Sandiford Drive, Suite 411 Stouffville, ON L4A 3Z2	PO #: 1840 + 1850 Bloor Street
Telephone: 416-275-3954	E-mail: stephaniel@g2sconsulting.com rachaell@ " "

Page 2 of 3

Turnaround Time

☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular

Date Required:

☒ REG 153/04 ☐ REG 406/19

Other Regulation

☐ Table 1 ☒ Res/Park ☐ Med/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☒ Table 3 ☐ Agri/Other ☐ Table

For RSC: ☒ Yes ☐ No

☐ REG 558 ☐ PWQO ☐ CCME ☐ MISA ☐ SU - Sani ☐ SU - Storm Mun: ☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	Metals + Inorganics	PCBs	OC Pesticides		
1	BH106 S1	S		3	Feb13/24	1:20	X								X			
2	BH107 S1	S		1	↓	1:36				X						X		
3	BH107 S3	S		2	↓	1:36	X											
4	BH108 S1	S		1	↓	1:45				X						X		
5	BH109 S1	S		1	Feb15/24	9:08				X						X		
6	BH110 S1	S		2	↓	10:15			X					X		X		
7	BH111 S1	S		3	↓	11:16	X								X			
8	BH112 S5	S		2	Feb13/24	~~9:40~~ 9:14	X	X										
9	BH113 S2	S		1	↓	12:58			X									
10	BH114 S1	S		1	↓	1:20									X			

Comments: Limited amount of sample volume.

Method of Delivery: RABBLE

Relinquished By (Sign): Rachael Lesmeister	Received By Driver/Depot:	Received at Lab:	Verified By:
Relinquished By (Print): Rachael Lesmeister	Date/Time: 16-Feb-24 13:53	Date/Time: Feb 17/24 11:19	Date/Time: Feb 17 2024 11:43
Date/Time: Feb 16/24 1:26	Temperature: 1.9 °C	Temperature: 6.3 °C	pH Verified: ☐ By:

PARACE LABORATORIES LT

Paracel ID: 2407497

Paracel Order Number (Lab Use Only)	Chain Of Custody (Lab Use Only)
	№ 143580

Client Name: G2S Consulting Inc.
Contact Name: Rachael Lesmeister
Address: 37 Sandiford Dr. Suite 411 Stouffville, ON L4A 3Z2
Telephone: 416-275-3954

Project Ref: G2S 24012B
Quote #: 24-109
PO #: 1840 + 1850 Bloor Street
E-mail: stephaniel@g2sconsulting.com rachaell@ " "

Page 3 of 3

Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required:

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☒ Res/Park ☐ Med/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☒ Table 3 ☐ Agri/Other
☐ Table
For RSC: ☒ Yes ☐ No

Other Regulation
☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun:
☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	OC Pesticides				
1	BH115 S1	S		1	Feb 15/24	9:08				X				X				
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Comments: Limited amount of sample volume.

Method of Delivery: RABBLE

Relinquished By (Sign):	Received By Driver/Depot:	Received At Lab:	Verified By:
Relinquished By (Print): Rachael Lesmeister	Date/Time: 16-Feb-24 13:53	Date/Time: Feb 17 2024 11:19	Date/Time: Feb 17 2024 11:43
Date/Time: Feb 16 24 1:26	Temperature: 1.9 °C	Temperature: 6.3 °C	pH Verified: ☐ By:

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Certificate of Analysis

G2S Environmental Consulting Inc. (Burlington)
4361 Harvester Rd, Unit 12
Burlington, ON L7L 5M4
Attn: Jacob Pinter

Client PO: Bloor Street
Project: G2S24012B
Custody: 143478

Report Date: 26-Feb-2024
Order Date: 20-Feb-2024

Order #: 2408076

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2408076-01	BH/MW 101
2408076-02	BH/MW 112
2408076-03	Trip Blank

Approved By:

Milan Ralitsch, PhD
Senior Technical Manager

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Chromium, hexavalent - water	MOE E3056 - colourimetric	23-Feb-24	23-Feb-24
PHC F1	CWS Tier 1 - P&T GC-FID	20-Feb-24	22-Feb-24
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	23-Feb-24	23-Feb-24
REG 153: Mercury by CVAA	EPA 245.2 - Cold Vapour AA	20-Feb-24	22-Feb-24
REG 153: Metals by ICP/MS, water	EPA 200.8, ICP-MS	21-Feb-24	21-Feb-24
REG 153: VOCs by P&T GC-MS	EPA 624 - P&T GC-MS	22-Feb-24	22-Feb-24

Summary of Criteria Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Non-Potable Groundwater, coarse	Reg 153/04 -T3 Non-Potable Groundwater, fine

	Client ID:	BH/MW 101	BH/MW 112	Trip Blank	-	Criteria:	
	Sample Date:	20-Feb-24 09:45	20-Feb-24 10:00	15-Feb-24 13:15	-	Reg 153/04 -T3 Non-Potable Groundwater, coarse	Reg 153/04 -T3 Non-Potable Groundwater, fine
	Sample ID:	2408076-01	2408076-02	2408076-03	-		
	Matrix:	Ground Water	Ground Water	Ground Water	-		
	MDL/Units						
Metals							
Mercury	0.1 ug/L	<0.1	<0.1	-	-	0.29 ug/L	2.8 ug/L
Antimony	0.5 ug/L	<0.5	<0.5	-	-	20000 ug/L	20000 ug/L
Arsenic	1.0 ug/L	<1.0	<1.0	-	-	1900 ug/L	1900 ug/L
Barium	1.0 ug/L	79.5	85.7	-	-	29000 ug/L	29000 ug/L
Beryllium	0.5 ug/L	<0.5	<0.5	-	-	67 ug/L	67 ug/L
Boron	10.0 ug/L	238	232	-	-	45000 ug/L	45000 ug/L
Cadmium	0.2 ug/L	<0.2	<0.2	-	-	2.7 ug/L	2.7 ug/L
Chromium	1.0 ug/L	<1.0	<1.0	-	-	810 ug/L	810 ug/L
Chromium (VI)	10 ug/L	<10	<10	-	-	140 ug/L	140 ug/L
Cobalt	0.5 ug/L	0.5	0.6	-	-	66 ug/L	66 ug/L
Copper	0.5 ug/L	1.6	0.5	-	-	87 ug/L	87 ug/L
Lead	0.2 ug/L	<0.2	<0.2	-	-	25 ug/L	25 ug/L
Molybdenum	0.5 ug/L	1.2	1.1	-	-	9200 ug/L	9200 ug/L
Nickel	1.0 ug/L	1.5	1.5	-	-	490 ug/L	490 ug/L
Selenium	1.0 ug/L	<1.0	<1.0	-	-	63 ug/L	63 ug/L
Silver	0.2 ug/L	<0.2	<0.2	-	-	1.5 ug/L	1.5 ug/L
Sodium	200 ug/L	99500	108000	-	-	2300000 ug/L	2300000 ug/L
Thallium	0.5 ug/L	<0.5	<0.5	-	-	510 ug/L	510 ug/L
Uranium	0.2 ug/L	2.4	2.6	-	-	420 ug/L	420 ug/L
Vanadium	0.5 ug/L	<0.5	<0.5	-	-	250 ug/L	250 ug/L
Zinc	5.0 ug/L	<5.0	<5.0	-	-	1100 ug/L	1100 ug/L
Volatiles							
Acetone	5.0 ug/L	<5.0	<5.0	<5.0	-	130000 ug/L	130000 ug/L
Benzene	0.5 ug/L	<0.5	<0.5	<0.5	-	44 ug/L	430 ug/L
Bromodichloromethane	0.5 ug/L	<0.5	<0.5	<0.5	-	85000 ug/L	85000 ug/L

	Client ID:	BH/MW 101	BH/MW 112	Trip Blank	-	Criteria:	
	Sample Date:	20-Feb-24 09:45	20-Feb-24 10:00	15-Feb-24 13:15	-	Reg 153/04 -T3 Non-Potable Groundwater, coarse	Reg 153/04 -T3 Non-Potable Groundwater, fine
	Sample ID:	2408076-01	2408076-02	2408076-03	-		
	Matrix:	Ground Water	Ground Water	Ground Water	-		
	MDL/Units						
Volatiles							
Bromoform	0.5 ug/L	<0.5	<0.5	<0.5	-	380 ug/L	770 ug/L
Bromomethane	0.5 ug/L	<0.5	<0.5	<0.5	-	5.6 ug/L	56 ug/L
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	<0.2	-	0.79 ug/L	8.4 ug/L
Chlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	-	630 ug/L	630 ug/L
Chloroform	0.5 ug/L	<0.5	<0.5	<0.5	-	2.4 ug/L	22 ug/L
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<0.5	-	82000 ug/L	82000 ug/L
Dichlorodifluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	-	4400 ug/L	4400 ug/L
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	-	4600 ug/L	9600 ug/L
1,3-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	-	9600 ug/L	9600 ug/L
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	-	8 ug/L	67 ug/L
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	320 ug/L	3100 ug/L
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	1.6 ug/L	12 ug/L
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	-	1.6 ug/L	17 ug/L
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	-	1.6 ug/L	17 ug/L
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	-	1.6 ug/L	17 ug/L
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5	-	16 ug/L	140 ug/L
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	-	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	-	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	<0.5	-	5.2 ug/L	45 ug/L
Ethylbenzene	0.5 ug/L	<0.5	<0.5	<0.5	-	2300 ug/L	2300 ug/L
Ethylene dibromide (dibromoethane,	0.2 ug/L	<0.2	<0.2	<0.2	-	0.25 ug/L	0.83 ug/L
Hexane	1.0 ug/L	<1.0	<1.0	<1.0	-	51 ug/L	520 ug/L
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	<5.0	<5.0	-	470000 ug/L	1500000 ug/L
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	<5.0	<5.0	-	140000 ug/L	580000 ug/L
Methyl tert-butyl ether	2.0 ug/L	<2.0	<2.0	<2.0	-	190 ug/L	1400 ug/L

Certificate of Analysis

Report Date: 26-Feb-2024

Client: **G2S Environmental Consulting Inc. (Burlington)**

Order Date: 20-Feb-2024

Client PO: **Bloor Street**

Project Description: G2S24012B

	Client ID:	BH/MW 101	BH/MW 112	Trip Blank	-	Criteria:	
	Sample Date:	20-Feb-24 09:45	20-Feb-24 10:00	15-Feb-24 13:15	-	Reg 153/04 -T3 Non-Potable Groundwater, coarse	Reg 153/04 -T3 Non-Potable Groundwater, fine
	Sample ID:	2408076-01	2408076-02	2408076-03	-		
	Matrix:	Ground Water	Ground Water	Ground Water	-		
	MDL/Units						
Volatiles							
Methylene Chloride	5.0 ug/L	<5.0	<5.0	<5.0	-	610 ug/L	5500 ug/L
Styrene	0.5 ug/L	<0.5	<0.5	<0.5	-	1300 ug/L	9100 ug/L
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	3.3 ug/L	28 ug/L
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	3.2 ug/L	15 ug/L
Tetrachloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	-	1.6 ug/L	17 ug/L
Toluene	0.5 ug/L	<0.5	<0.5	<0.5	-	18000 ug/L	18000 ug/L
1,1,1-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	640 ug/L	6700 ug/L
1,1,2-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-	4.7 ug/L	30 ug/L
Trichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	-	1.6 ug/L	17 ug/L
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	-	2500 ug/L	2500 ug/L
Vinyl chloride	0.5 ug/L	<0.5	<0.5	<0.5	-	0.5 ug/L	1.7 ug/L
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	<0.5	-	-	-
o-Xylene	0.5 ug/L	<0.5	<0.5	<0.5	-	-	-
Xylenes, total	0.05 ug/L	<0.05	<0.05	<0.05	-	4200 ug/L	4200 ug/L
4-Bromofluorobenzene	Surrogate	112%	111%	110%	-	-	-
Toluene-d8	Surrogate	109%	109%	110%	-	-	-
Dibromofluoromethane	Surrogate	95.2%	93.9%	98.7%	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	25 ug/L	<25	<25	-	-	750 ug/L	750 ug/L
F2 PHCs (C10-C16)	100 ug/L	<100	<100	-	-	150 ug/L	150 ug/L
F3 PHCs (C16-C34)	100 ug/L	<100	<100	-	-	500 ug/L	500 ug/L
F4 PHCs (C34-C50)	100 ug/L	<100	<100	-	-	500 ug/L	500 ug/L

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	ND	25	ug/L					
F2 PHCs (C10-C16)	ND	100	ug/L					
F3 PHCs (C16-C34)	ND	100	ug/L					
F4 PHCs (C34-C50)	ND	100	ug/L					
Metals								
Mercury	ND	0.1	ug/L					
Antimony	ND	0.5	ug/L					
Arsenic	ND	1.0	ug/L					
Barium	ND	1.0	ug/L					
Beryllium	ND	0.5	ug/L					
Boron	ND	10.0	ug/L					
Cadmium	ND	0.2	ug/L					
Chromium (VI)	ND	10	ug/L					
Chromium	ND	1.0	ug/L					
Cobalt	ND	0.5	ug/L					
Copper	ND	0.5	ug/L					
Lead	ND	0.2	ug/L					
Molybdenum	ND	0.5	ug/L					
Nickel	ND	1.0	ug/L					
Selenium	ND	1.0	ug/L					
Silver	ND	0.2	ug/L					
Sodium	ND	200	ug/L					
Thallium	ND	0.5	ug/L					
Uranium	ND	0.2	ug/L					
Vanadium	ND	0.5	ug/L					
Zinc	ND	5.0	ug/L					
Volatiles								
Acetone	ND	5.0	ug/L					
Benzene	ND	0.5	ug/L					
Bromodichloromethane	ND	0.5	ug/L					
Bromoform	ND	0.5	ug/L					
Bromomethane	ND	0.5	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Carbon Tetrachloride	ND	0.2	ug/L					
Chlorobenzene	ND	0.5	ug/L					
Chloroform	ND	0.5	ug/L					
Dibromochloromethane	ND	0.5	ug/L					
Dichlorodifluoromethane	ND	1.0	ug/L					
1,2-Dichlorobenzene	ND	0.5	ug/L					
1,3-Dichlorobenzene	ND	0.5	ug/L					
1,4-Dichlorobenzene	ND	0.5	ug/L					
1,1-Dichloroethane	ND	0.5	ug/L					
1,2-Dichloroethane	ND	0.5	ug/L					
1,1-Dichloroethylene	ND	0.5	ug/L					
cis-1,2-Dichloroethylene	ND	0.5	ug/L					
trans-1,2-Dichloroethylene	ND	0.5	ug/L					
1,2-Dichloropropane	ND	0.5	ug/L					
cis-1,3-Dichloropropylene	ND	0.5	ug/L					
trans-1,3-Dichloropropylene	ND	0.5	ug/L					
1,3-Dichloropropene, total	ND	0.5	ug/L					
Ethylbenzene	ND	0.5	ug/L					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L					
Hexane	ND	1.0	ug/L					
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L					
Methyl Isobutyl Ketone	ND	5.0	ug/L					
Methyl tert-butyl ether	ND	2.0	ug/L					
Methylene Chloride	ND	5.0	ug/L					
Styrene	ND	0.5	ug/L					
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L					
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L					
Tetrachloroethylene	ND	0.5	ug/L					
Toluene	ND	0.5	ug/L					
1,1,1-Trichloroethane	ND	0.5	ug/L					
1,1,2-Trichloroethane	ND	0.5	ug/L					
Trichloroethylene	ND	0.5	ug/L					
Trichlorofluoromethane	ND	1.0	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	ND	0.5	ug/L					
m,p-Xylenes	ND	0.5	ug/L					
o-Xylene	ND	0.5	ug/L					
Xylenes, total	ND	0.05	ug/L					
Surrogate: 4-Bromofluorobenzene	*89.3*		*%*	*112*	*50-140*			
Surrogate: Dibromofluoromethane	*81.7*		*%*	*102*	*50-140*			
Surrogate: Toluene-d8	*88.4*		*%*	*110*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L	ND			NC	30	
Metals									
Mercury	ND	0.1	ug/L	ND			NC	20	
Antimony	ND	0.5	ug/L	ND			NC	20	
Arsenic	1.9	1.0	ug/L	1.8			6.3	20	
Barium	104	1.0	ug/L	112			7.0	20	
Beryllium	ND	0.5	ug/L	ND			NC	20	
Boron	365	10.0	ug/L	329			10.3	20	
Cadmium	ND	0.2	ug/L	ND			NC	20	
Chromium (VI)	ND	10	ug/L	ND			NC	20	
Chromium	ND	1.0	ug/L	ND			NC	20	
Cobalt	0.6	0.5	ug/L	0.6			7.1	20	
Copper	ND	0.5	ug/L	ND			NC	20	
Lead	ND	0.2	ug/L	ND			NC	20	
Molybdenum	4.0	0.5	ug/L	4.1			2.5	20	
Nickel	ND	1.0	ug/L	ND			NC	20	
Selenium	ND	1.0	ug/L	ND			NC	20	
Silver	ND	0.2	ug/L	ND			NC	20	
Sodium	38400	200	ug/L	40900			6.5	20	
Thallium	ND	0.5	ug/L	ND			NC	20	
Uranium	2.1	0.2	ug/L	2.2			8.3	20	
Vanadium	0.6	0.5	ug/L	0.6			8.8	20	
Zinc	ND	5.0	ug/L	ND			NC	20	
Volatiles									
Acetone	ND	5.0	ug/L	ND			NC	30	
Benzene	ND	0.5	ug/L	ND			NC	30	
Bromodichloromethane	ND	0.5	ug/L	ND			NC	30	
Bromoform	ND	0.5	ug/L	ND			NC	30	
Bromomethane	ND	0.5	ug/L	ND			NC	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chlorobenzene	ND	0.5	ug/L	ND			NC	30	
Chloroform	ND	0.5	ug/L	ND			NC	30	
Dibromochloromethane	ND	0.5	ug/L	ND			NC	30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L	ND			NC	30	
Hexane	ND	1.0	ug/L	ND			NC	30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			NC	30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			NC	30	
Methylene Chloride	ND	5.0	ug/L	ND			NC	30	
Styrene	ND	0.5	ug/L	ND			NC	30	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
Tetrachloroethylene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
Trichloroethylene	ND	0.5	ug/L	ND			NC	30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: 4-Bromofluorobenzene	*88.9*		*%*		*111*	*50-140*			
Surrogate: Dibromofluoromethane	*78.1*		*%*		*97.6*	*50-140*			
Surrogate: Toluene-d8	*85.0*		*%*		*106*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	574	25	ug/L	ND	81.1	68-117			
F2 PHCs (C10-C16)	1300	100	ug/L	ND	78.7	60-140			
F3 PHCs (C16-C34)	3470	100	ug/L	ND	93.7	60-140			
F4 PHCs (C34-C50)	2100	100	ug/L	ND	78.7	60-140			
Metals									
Mercury	2.93	0.1	ug/L	ND	97.8	70-130			
Arsenic	51.8	1.0	ug/L	1.8	100	70-130			
Barium	152	1.0	ug/L	112	80.1	70-130			
Beryllium	37.4	0.5	ug/L	ND	74.8	70-130			
Boron	41.7	10.0	ug/L	ND	83.3	80-120			
Cadmium	44.9	0.2	ug/L	ND	89.7	70-130			
Chromium (VI)	202	10	ug/L	ND	101	70-130			
Chromium	45.4	1.0	ug/L	ND	90.8	70-130			
Cobalt	43.2	0.5	ug/L	0.6	85.1	70-130			
Copper	44.6	0.5	ug/L	ND	88.5	70-130			
Lead	36.1	0.2	ug/L	ND	72.2	70-130			
Molybdenum	47.4	0.5	ug/L	4.1	86.6	70-130			
Nickel	45.3	1.0	ug/L	1.0	88.7	70-130			
Selenium	51.2	1.0	ug/L	ND	102	70-130			
Silver	35.5	0.2	ug/L	ND	70.9	70-130			
Sodium	975	200	ug/L	ND	97.5	80-120			
Thallium	44.8	0.5	ug/L	ND	89.5	70-130			
Uranium	50.5	0.2	ug/L	2.2	96.4	70-130			
Vanadium	46.5	0.5	ug/L	0.6	91.8	70-130			
Zinc	48.1	5.0	ug/L	ND	86.7	70-130			
Volatiles									
Acetone	80.6	5.0	ug/L	ND	80.4	50-140			
Benzene	33.7	0.5	ug/L	ND	83.7	50-140			
Bromodichloromethane	34.9	0.5	ug/L	ND	86.9	50-140			
Bromoform	37.0	0.5	ug/L	ND	91.5	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Bromomethane	36.3	0.5	ug/L	ND	90.2	50-140			
Carbon Tetrachloride	35.3	0.2	ug/L	ND	87.9	50-140			
Chlorobenzene	36.5	0.5	ug/L	ND	90.4	50-140			
Chloroform	34.9	0.5	ug/L	ND	86.9	50-140			
Dibromochloromethane	36.9	0.5	ug/L	ND	91.3	50-140			
Dichlorodifluoromethane	22.7	1.0	ug/L	ND	56.4	50-140			
1,2-Dichlorobenzene	34.8	0.5	ug/L	ND	86.4	50-140			
1,3-Dichlorobenzene	35.3	0.5	ug/L	ND	87.4	50-140			
1,4-Dichlorobenzene	34.7	0.5	ug/L	ND	85.9	50-140			
1,1-Dichloroethane	35.4	0.5	ug/L	ND	88.0	50-140			
1,2-Dichloroethane	35.3	0.5	ug/L	ND	87.5	50-140			
1,1-Dichloroethylene	35.1	0.5	ug/L	ND	87.2	50-140			
cis-1,2-Dichloroethylene	32.5	0.5	ug/L	ND	81.3	50-140			
trans-1,2-Dichloroethylene	32.9	0.5	ug/L	ND	81.9	50-140			
1,2-Dichloropropane	35.2	0.5	ug/L	ND	87.1	50-140			
cis-1,3-Dichloropropylene	36.3	0.5	ug/L	ND	90.3	50-140			
trans-1,3-Dichloropropylene	37.3	0.5	ug/L	ND	92.7	50-140			
Ethylbenzene	34.8	0.5	ug/L	ND	86.6	50-140			
Ethylene dibromide (dibromoethane, 1,2-)	36.3	0.2	ug/L	ND	90.4	50-140			
Hexane	35.6	1.0	ug/L	ND	89.1	50-140			
Methyl Ethyl Ketone (2-Butanone)	81.2	5.0	ug/L	ND	81.1	50-140			
Methyl Isobutyl Ketone	97.0	5.0	ug/L	ND	97.0	50-140			
Methyl tert-butyl ether	86.0	2.0	ug/L	ND	86.0	50-140			
Methylene Chloride	35.1	5.0	ug/L	ND	87.3	50-140			
Styrene	34.6	0.5	ug/L	ND	86.1	50-140			
1,1,1,2-Tetrachloroethane	36.4	0.5	ug/L	ND	90.6	50-140			
1,1,2,2-Tetrachloroethane	41.7	0.5	ug/L	ND	104	50-140			
Tetrachloroethylene	35.8	0.5	ug/L	ND	89.1	50-140			
Toluene	34.4	0.5	ug/L	ND	86.0	50-140			
1,1,1-Trichloroethane	35.2	0.5	ug/L	ND	87.6	50-140			
1,1,2-Trichloroethane	35.9	0.5	ug/L	ND	89.2	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Trichloroethylene	33.3	0.5	ug/L	ND	82.9	50-140			
Trichlorofluoromethane	34.4	1.0	ug/L	ND	85.2	50-140			
Vinyl chloride	33.1	0.5	ug/L	ND	82.3	50-140			
m,p-Xylenes	71.4	0.5	ug/L	ND	89.1	50-140			
o-Xylene	37.3	0.5	ug/L	ND	92.7	50-140			
Surrogate: 4-Bromofluorobenzene	*78.6*		*%*		*98.3*	*50-140*			
Surrogate: Dibromofluoromethane	*90.9*		*%*		*114*	*50-140*			
Surrogate: Toluene-d8	*74.2*		*%*		*92.8*	*50-140*			

Certificate of Analysis

Report Date: 26-Feb-2024

Client: **G2S Environmental Consulting Inc. (Burlington)**

Order Date: 20-Feb-2024

Client PO: **Bloor Street**

Project Description: G2S24012B

Qualifier Notes:

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

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Chain Of Custody
(Lab Use Only)

№ 143478

Client Name: G2S	Project Ref: Bloor Street
Contact Name: Jacob Pinter + Stephanie Lewis	Quote #: Standing Offer
Address: Burlington	PO #: G2S24012B
Telephone: 905-719-5253	E-mail: jacob p@g2sconsulting.com melissa k@g2sconsulting.com

Page 1 of 1

Turnaround Time

☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular

Date Required: _____

☒ REG 153/04 ☐ REG 406/19

Other Regulation

☐ Table 1 ☒ Res/Park ☐ Med/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☒ Table 3 ☐ Agri/Other
☐ Table ___
For RSC: ☐ Yes ☐ No

☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun: _____
☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	PHCs/VOCs	Reg 153 Metals			
1	BH/MW 101	GW		6	Feb 20/24	9:45am								X	X			
2	BH/MW 112	GW		6	Feb 20/24	10:00am								X	X			
3	Trip Blank			1				X										
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Required Analysis

Comments:

Method of Delivery: Zoom

Relinquished By (Sign):	Received By Driver/Depot:	Received at Lab: C-PLY	Verified By: C-PLY
Relinquished By (Print): Jacob Pinter	Date/Time:	Date/Time: 02/20/24 14:41	Date/Time: 02/20/24 14:56
Date/Time:	Temperature: °C	Temperature: 6.3 °C	pH Verified: ☑ By: CP

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Certificate of Analysis

G2S Environmental Consulting Inc. (Stouffville)
37 Sandiford Drive, Suite 411
Stouffville, ON L4A 7X5
Attn: Rachael Lesmeister

Client PO: 1840 + 1850 Bloor Street
Project: G2S24012C
Custody: 143937, 143929

Report Date: 21-Mar-2024
Order Date: 14-Mar-2024

Order #: 2411497

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2411497-01	BH102 S3
2411497-02	BH107 S2
2411497-03	BH108 S2
2411497-04	BH201 S8
2411497-05	BH202 S5
2411497-06	BH202 S1
2411497-07	BH203 S1
2411497-08	BH203 S6
2411497-09	BH204 S1
2411497-10	BH205 S1
2411497-11	BH206 S1
2411497-12	BH207 S5
2411497-13	BH208 S1

Approved By:

Mark Foto, M.Sc.
Lab Supervisor

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Boron, available	MOE (HWE), EPA 200.8 - ICP-MS	19-Mar-24	19-Mar-24
Chromium, hexavalent - soil	MOE E3056 - Extraction, colourimetric	18-Mar-24	18-Mar-24
Mercury by CVAA	EPA 7471B - CVAA, digestion	19-Mar-24	19-Mar-24
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	19-Mar-24	19-Mar-24
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	18-Mar-24	19-Mar-24
Solids, %	CWS Tier 1 - Gravimetric	20-Mar-24	20-Mar-24

Summary of Criteria Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine

Certificate of Analysis

Report Date: 21-Mar-2024

Client: **G2S Environmental Consulting Inc. (Stouffville)**

Order Date: 14-Mar-2024

Client PO: **1840 + 1850 Bloor Street**

Project Description: G2S24012C

	Client ID:	BH102 S3	BH107 S2	BH108 S2	BH201 S8	Criteria:	
	Sample Date:	13-Feb-24 10:32	13-Feb-24 13:36	13-Feb-24 13:45	13-Mar-24 09:06	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2411497-01	2411497-02	2411497-03	2411497-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	88.7	85.1	83.5	85.5	-	-
Volatiles							
Acetone	0.50 ug/g	-	-	-	<0.50	16 ug/g	28 ug/g
Benzene	0.02 ug/g	-	-	-	<0.02	0.21 ug/g	0.17 ug/g
Bromodichloromethane	0.05 ug/g	-	-	-	<0.05	13 ug/g	13 ug/g
Bromoform	0.05 ug/g	-	-	-	<0.05	0.27 ug/g	0.26 ug/g
Bromomethane	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
Carbon Tetrachloride	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.12 ug/g
Chlorobenzene	0.05 ug/g	-	-	-	<0.05	2.4 ug/g	2.7 ug/g
Chloroform	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.18 ug/g
Dibromochloromethane	0.05 ug/g	-	-	-	<0.05	9.4 ug/g	9.4 ug/g
Dichlorodifluoromethane	0.05 ug/g	-	-	-	<0.05	16 ug/g	25 ug/g
1,2-Dichlorobenzene	0.05 ug/g	-	-	-	<0.05	3.4 ug/g	4.3 ug/g
1,3-Dichlorobenzene	0.05 ug/g	-	-	-	<0.05	4.8 ug/g	6 ug/g
1,4-Dichlorobenzene	0.05 ug/g	-	-	-	<0.05	0.083 ug/g	0.097 ug/g
1,1-Dichloroethane	0.05 ug/g	-	-	-	<0.05	3.5 ug/g	11 ug/g
1,2-Dichloroethane	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
1,1-Dichloroethylene	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	-	-	-	<0.05	3.4 ug/g	30 ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	-	-	-	<0.05	0.084 ug/g	0.75 ug/g
1,2-Dichloropropane	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.085 ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	-	-	-	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	-	-	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.083 ug/g
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g

	Client ID:	BH102 S3	BH107 S2	BH108 S2	BH201 S8	Criteria:	
	Sample Date:	13-Feb-24 10:32	13-Feb-24 13:36	13-Feb-24 13:45	13-Mar-24 09:06	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2411497-01	2411497-02	2411497-03	2411497-04		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Ethylbenzene	0.05 ug/g	-	-	-	<0.05	2 ug/g	15 ug/g
Hexane	0.05 ug/g	-	-	-	<0.05	2.8 ug/g	34 ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	-	-	<0.50	16 ug/g	44 ug/g
Methyl Isobutyl Ketone	0.50 ug/g	-	-	-	<0.50	1.7 ug/g	4.3 ug/g
Methyl tert-butyl ether	0.05 ug/g	-	-	-	<0.05	0.75 ug/g	1.4 ug/g
Methylene Chloride	0.05 ug/g	-	-	-	<0.05	0.1 ug/g	0.96 ug/g
Styrene	0.05 ug/g	-	-	-	<0.05	0.7 ug/g	2.2 ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	-	-	<0.05	0.058 ug/g	0.05 ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
Tetrachloroethylene	0.05 ug/g	-	-	-	<0.05	0.28 ug/g	2.3 ug/g
Toluene	0.05 ug/g	-	-	-	<0.05	2.3 ug/g	6 ug/g
1,1,1-Trichloroethane	0.05 ug/g	-	-	-	<0.05	0.38 ug/g	3.4 ug/g
1,1,2-Trichloroethane	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
Trichloroethylene	0.05 ug/g	-	-	-	<0.05	0.061 ug/g	0.52 ug/g
Trichlorofluoromethane	0.05 ug/g	-	-	-	<0.05	4 ug/g	5.8 ug/g
Vinyl chloride	0.02 ug/g	-	-	-	<0.02	0.02 ug/g	0.022 ug/g
m,p-Xylenes	0.05 ug/g	-	-	-	<0.05	-	-
o-Xylene	0.05 ug/g	-	-	-	<0.05	-	-
Xylenes, total	0.05 ug/g	-	-	-	<0.05	3.1 ug/g	25 ug/g
4-Bromofluorobenzene	Surrogate	-	-	-	134%	-	-
Dibromofluoromethane	Surrogate	-	-	-	107%	-	-
Toluene-d8	Surrogate	-	-	-	121%	-	-

Certificate of Analysis

Report Date: 21-Mar-2024

Client: G2S Environmental Consulting Inc. (Stouffville)

Order Date: 14-Mar-2024

Client PO: 1840 + 1850 Bloor Street

Project Description: G2S24012C

	Client ID:	BH202 S5	BH202 S1	BH203 S1	BH203 S6	Criteria:	
	Sample Date:	13-Mar-24 11:18	13-Mar-24 11:18	13-Mar-24 13:27	13-Mar-24 13:27	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2411497-05	2411497-06	2411497-07	2411497-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	84.8	86.9	78.4	91.2	-	-
Metals							
Antimony	1.0 ug/g	-	<1.0	<1.0	-	7.5 ug/g	7.5 ug/g
Arsenic	1.0 ug/g	-	9.4	7.8	-	18 ug/g	18 ug/g
Barium	1.0 ug/g	-	59.1	71.3	-	390 ug/g	390 ug/g
Beryllium	0.5 ug/g	-	0.6	0.8	-	4 ug/g	5 ug/g
Boron	5.0 ug/g	-	6.5	11.2	-	120 ug/g	120 ug/g
Boron, available	0.5 ug/g	-	<0.5	<0.5	-	1.5 ug/g	1.5 ug/g
Cadmium	0.5 ug/g	-	<0.5	<0.5	-	1.2 ug/g	1.2 ug/g
Chromium (VI)	0.2 ug/g	-	<0.2	<0.2	-	8 ug/g	10 ug/g
Chromium	5.0 ug/g	-	19.3	25.1	-	160 ug/g	160 ug/g
Cobalt	1.0 ug/g	-	8.5	10.7	-	22 ug/g	22 ug/g
Copper	5.0 ug/g	-	23.1	28.9	-	140 ug/g	180 ug/g
Lead	1.0 ug/g	-	25.9	14.7	-	120 ug/g	120 ug/g
Mercury	0.1 ug/g	-	<0.1	<0.1	-	0.27 ug/g	1.8 ug/g
Molybdenum	1.0 ug/g	-	<1.0	1.4	-	6.9 ug/g	6.9 ug/g
Nickel	5.0 ug/g	-	18.0	23.4	-	100 ug/g	130 ug/g
Selenium	1.0 ug/g	-	<1.0	<1.0	-	2.4 ug/g	2.4 ug/g
Silver	0.3 ug/g	-	<0.3	<0.3	-	20 ug/g	25 ug/g
Thallium	1.0 ug/g	-	<1.0	<1.0	-	1 ug/g	1 ug/g
Uranium	1.0 ug/g	-	<1.0	<1.0	-	23 ug/g	23 ug/g
Vanadium	10.0 ug/g	-	28.9	36.9	-	86 ug/g	86 ug/g
Zinc	20.0 ug/g	-	50.2	64.7	-	340 ug/g	340 ug/g
Volatiles							
Acetone	0.50 ug/g	<0.50	-	-	<0.50	16 ug/g	28 ug/g

	Client ID:	BH202 S5	BH202 S1	BH203 S1	BH203 S6	Criteria:	
	Sample Date:	13-Mar-24 11:18	13-Mar-24 11:18	13-Mar-24 13:27	13-Mar-24 13:27	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2411497-05	2411497-06	2411497-07	2411497-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Benzene	0.02 ug/g	<0.02	-	-	<0.02	0.21 ug/g	0.17 ug/g
Bromodichloromethane	0.05 ug/g	<0.05	-	-	<0.05	13 ug/g	13 ug/g
Bromoform	0.05 ug/g	<0.05	-	-	<0.05	0.27 ug/g	0.26 ug/g
Bromomethane	0.05 ug/g	<0.05	-	-	<0.05	0.05 ug/g	0.05 ug/g
Carbon Tetrachloride	0.05 ug/g	<0.05	-	-	<0.05	0.05 ug/g	0.12 ug/g
Chlorobenzene	0.05 ug/g	<0.05	-	-	<0.05	2.4 ug/g	2.7 ug/g
Chloroform	0.05 ug/g	<0.05	-	-	<0.05	0.05 ug/g	0.18 ug/g
Dibromochloromethane	0.05 ug/g	<0.05	-	-	<0.05	9.4 ug/g	9.4 ug/g
Dichlorodifluoromethane	0.05 ug/g	<0.05	-	-	<0.05	16 ug/g	25 ug/g
1,2-Dichlorobenzene	0.05 ug/g	<0.05	-	-	<0.05	3.4 ug/g	4.3 ug/g
1,3-Dichlorobenzene	0.05 ug/g	<0.05	-	-	<0.05	4.8 ug/g	6 ug/g
1,4-Dichlorobenzene	0.05 ug/g	<0.05	-	-	<0.05	0.083 ug/g	0.097 ug/g
1,1-Dichloroethane	0.05 ug/g	<0.05	-	-	<0.05	3.5 ug/g	11 ug/g
1,2-Dichloroethane	0.05 ug/g	<0.05	-	-	<0.05	0.05 ug/g	0.05 ug/g
1,1-Dichloroethylene	0.05 ug/g	<0.05	-	-	<0.05	0.05 ug/g	0.05 ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	<0.05	3.4 ug/g	30 ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	<0.05	-	-	<0.05	0.084 ug/g	0.75 ug/g
1,2-Dichloropropane	0.05 ug/g	<0.05	-	-	<0.05	0.05 ug/g	0.085 ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	<0.05	-	-	<0.05	0.05 ug/g	0.083 ug/g
Ethylbenzene	0.05 ug/g	<0.05	-	-	<0.05	2 ug/g	15 ug/g
Ethylene dibromide (dibromoethane,	0.05 ug/g	<0.05	-	-	<0.05	0.05 ug/g	0.05 ug/g
Hexane	0.05 ug/g	<0.05	-	-	<0.05	2.8 ug/g	34 ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	<0.50	-	-	<0.50	16 ug/g	44 ug/g

	Client ID:	BH202 S5	BH202 S1	BH203 S1	BH203 S6	Criteria:	
	Sample Date:	13-Mar-24 11:18	13-Mar-24 11:18	13-Mar-24 13:27	13-Mar-24 13:27	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2411497-05	2411497-06	2411497-07	2411497-08		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Methyl Isobutyl Ketone	0.50 ug/g	<0.50	-	-	<0.50	1.7 ug/g	4.3 ug/g
Methyl tert-butyl ether	0.05 ug/g	<0.05	-	-	<0.05	0.75 ug/g	1.4 ug/g
Methylene Chloride	0.05 ug/g	<0.05	-	-	<0.05	0.1 ug/g	0.96 ug/g
Styrene	0.05 ug/g	<0.05	-	-	<0.05	0.7 ug/g	2.2 ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	<0.05	0.058 ug/g	0.05 ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	<0.05	-	-	<0.05	0.05 ug/g	0.05 ug/g
Tetrachloroethylene	0.05 ug/g	<0.05	-	-	<0.05	0.28 ug/g	2.3 ug/g
Toluene	0.05 ug/g	<0.05	-	-	<0.05	2.3 ug/g	6 ug/g
1,1,1-Trichloroethane	0.05 ug/g	<0.05	-	-	<0.05	0.38 ug/g	3.4 ug/g
1,1,2-Trichloroethane	0.05 ug/g	<0.05	-	-	<0.05	0.05 ug/g	0.05 ug/g
Trichloroethylene	0.05 ug/g	<0.05	-	-	<0.05	0.061 ug/g	0.52 ug/g
Trichlorofluoromethane	0.05 ug/g	<0.05	-	-	<0.05	4 ug/g	5.8 ug/g
Vinyl chloride	0.02 ug/g	<0.02	-	-	<0.02	0.02 ug/g	0.022 ug/g
m,p-Xylenes	0.05 ug/g	<0.05	-	-	<0.05	-	-
o-Xylene	0.05 ug/g	<0.05	-	-	<0.05	-	-
Xylenes, total	0.05 ug/g	<0.05	-	-	<0.05	3.1 ug/g	25 ug/g
Toluene-d8	Surrogate	129%	-	-	116%	-	-
4-Bromofluorobenzene	Surrogate	144%	-	-	128%	-	-
Dibromofluoromethane	Surrogate	115%	-	-	103%	-	-

Certificate of Analysis

Report Date: 21-Mar-2024

Client: G2S Environmental Consulting Inc. (Stouffville)

Order Date: 14-Mar-2024

Client PO: 1840 + 1850 Bloor Street

Project Description: G2S24012C

	Client ID:	BH204 S1	BH205 S1	BH206 S1	BH207 S5	Criteria:	
	Sample Date:	13-Mar-24 15:22	13-Mar-24 15:41	13-Mar-24 16:00	13-Mar-24 11:18	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2411497-09	2411497-10	2411497-11	2411497-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	74.9	83.4	77.4	84.2	-	-
Metals							
Antimony	1.0 ug/g	<1.0	<1.0	<1.0	-	7.5 ug/g	7.5 ug/g
Arsenic	1.0 ug/g	8.3	8.4	8.5	-	18 ug/g	18 ug/g
Barium	1.0 ug/g	69.5	56.9	69.9	-	390 ug/g	390 ug/g
Beryllium	0.5 ug/g	1.1	0.8	0.7	-	4 ug/g	5 ug/g
Boron, available	0.5 ug/g	<0.5	<0.5	0.6	-	1.5 ug/g	1.5 ug/g
Boron	5.0 ug/g	14.8	10.4	9.2	-	120 ug/g	120 ug/g
Cadmium	0.5 ug/g	<0.5	<0.5	<0.5	-	1.2 ug/g	1.2 ug/g
Chromium (VI)	0.2 ug/g	<0.2	<0.2	<0.2	-	8 ug/g	10 ug/g
Chromium	5.0 ug/g	28.1	22.1	22.7	-	160 ug/g	160 ug/g
Cobalt	1.0 ug/g	13.3	10.1	9.3	-	22 ug/g	22 ug/g
Copper	5.0 ug/g	32.9	28.6	31.0	-	140 ug/g	180 ug/g
Lead	1.0 ug/g	19.6	18.0	41.4	-	120 ug/g	120 ug/g
Mercury	0.1 ug/g	<0.1	<0.1	<0.1	-	0.27 ug/g	1.8 ug/g
Molybdenum	1.0 ug/g	<1.0	<1.0	<1.0	-	6.9 ug/g	6.9 ug/g
Nickel	5.0 ug/g	28.0	20.5	20.0	-	100 ug/g	130 ug/g
Selenium	1.0 ug/g	<1.0	<1.0	<1.0	-	2.4 ug/g	2.4 ug/g
Silver	0.3 ug/g	<0.3	<0.3	<0.3	-	20 ug/g	25 ug/g
Thallium	1.0 ug/g	<1.0	<1.0	<1.0	-	1 ug/g	1 ug/g
Uranium	1.0 ug/g	<1.0	<1.0	<1.0	-	23 ug/g	23 ug/g
Vanadium	10.0 ug/g	39.2	32.2	31.5	-	86 ug/g	86 ug/g
Zinc	20.0 ug/g	74.9	58.9	72.7	-	340 ug/g	340 ug/g
Volatiles							
Acetone	0.50 ug/g	-	-	-	<0.50	16 ug/g	28 ug/g

	Client ID:	BH204 S1	BH205 S1	BH206 S1	BH207 S5	Criteria:	
	Sample Date:	13-Mar-24 15:22	13-Mar-24 15:41	13-Mar-24 16:00	13-Mar-24 11:18	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2411497-09	2411497-10	2411497-11	2411497-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Benzene	0.02 ug/g	-	-	-	<0.02	0.21 ug/g	0.17 ug/g
Bromodichloromethane	0.05 ug/g	-	-	-	<0.05	13 ug/g	13 ug/g
Bromoform	0.05 ug/g	-	-	-	<0.05	0.27 ug/g	0.26 ug/g
Bromomethane	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
Carbon Tetrachloride	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.12 ug/g
Chlorobenzene	0.05 ug/g	-	-	-	<0.05	2.4 ug/g	2.7 ug/g
Chloroform	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.18 ug/g
Dibromochloromethane	0.05 ug/g	-	-	-	<0.05	9.4 ug/g	9.4 ug/g
Dichlorodifluoromethane	0.05 ug/g	-	-	-	<0.05	16 ug/g	25 ug/g
1,2-Dichlorobenzene	0.05 ug/g	-	-	-	<0.05	3.4 ug/g	4.3 ug/g
1,3-Dichlorobenzene	0.05 ug/g	-	-	-	<0.05	4.8 ug/g	6 ug/g
1,4-Dichlorobenzene	0.05 ug/g	-	-	-	<0.05	0.083 ug/g	0.097 ug/g
1,1-Dichloroethane	0.05 ug/g	-	-	-	<0.05	3.5 ug/g	11 ug/g
1,2-Dichloroethane	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
1,1-Dichloroethylene	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
cis-1,2-Dichloroethylene	0.05 ug/g	-	-	-	<0.05	3.4 ug/g	30 ug/g
trans-1,2-Dichloroethylene	0.05 ug/g	-	-	-	<0.05	0.084 ug/g	0.75 ug/g
1,2-Dichloropropane	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.085 ug/g
cis-1,3-Dichloropropylene	0.05 ug/g	-	-	-	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g	-	-	-	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.083 ug/g
Ethylbenzene	0.05 ug/g	-	-	-	<0.05	2 ug/g	15 ug/g
Ethylene dibromide (dibromoethane,	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
Hexane	0.05 ug/g	-	-	-	<0.05	2.8 ug/g	34 ug/g
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g	-	-	-	<0.50	16 ug/g	44 ug/g

	Client ID:	BH204 S1	BH205 S1	BH206 S1	BH207 S5	Criteria:	
	Sample Date:	13-Mar-24 15:22	13-Mar-24 15:41	13-Mar-24 16:00	13-Mar-24 11:18	Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2411497-09	2411497-10	2411497-11	2411497-12		
	Matrix:	Soil	Soil	Soil	Soil		
	MDL/Units						
Volatiles							
Methyl Isobutyl Ketone	0.50 ug/g	-	-	-	<0.50	1.7 ug/g	4.3 ug/g
Methyl tert-butyl ether	0.05 ug/g	-	-	-	<0.05	0.75 ug/g	1.4 ug/g
Methylene Chloride	0.05 ug/g	-	-	-	<0.05	0.1 ug/g	0.96 ug/g
Styrene	0.05 ug/g	-	-	-	<0.05	0.7 ug/g	2.2 ug/g
1,1,1,2-Tetrachloroethane	0.05 ug/g	-	-	-	<0.05	0.058 ug/g	0.05 ug/g
1,1,2,2-Tetrachloroethane	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
Tetrachloroethylene	0.05 ug/g	-	-	-	<0.05	0.28 ug/g	2.3 ug/g
Toluene	0.05 ug/g	-	-	-	<0.05	2.3 ug/g	6 ug/g
1,1,1-Trichloroethane	0.05 ug/g	-	-	-	<0.05	0.38 ug/g	3.4 ug/g
1,1,2-Trichloroethane	0.05 ug/g	-	-	-	<0.05	0.05 ug/g	0.05 ug/g
Trichloroethylene	0.05 ug/g	-	-	-	<0.05	0.061 ug/g	0.52 ug/g
Trichlorofluoromethane	0.05 ug/g	-	-	-	<0.05	4 ug/g	5.8 ug/g
Vinyl chloride	0.02 ug/g	-	-	-	<0.02	0.02 ug/g	0.022 ug/g
m,p-Xylenes	0.05 ug/g	-	-	-	<0.05	-	-
o-Xylene	0.05 ug/g	-	-	-	<0.05	-	-
Xylenes, total	0.05 ug/g	-	-	-	<0.05	3.1 ug/g	25 ug/g
Toluene-d8	Surrogate	-	-	-	120%	-	-
4-Bromofluorobenzene	Surrogate	-	-	-	134%	-	-
Dibromofluoromethane	Surrogate	-	-	-	108%	-	-

Certificate of Analysis

Report Date: 21-Mar-2024

Client: **G2S Environmental Consulting Inc. (Stouffville)**

Order Date: 14-Mar-2024

Client PO: **1840 + 1850 Bloor Street**

Project Description: G2S24012C

	Client ID:	BH208 S1				Criteria:	
	Sample Date:	13-Mar-24 13:27				Reg 153/04 -T3 Res/Park, coarse	Reg 153/04 -T3 Res/Park, fine
	Sample ID:	2411497-13					
	Matrix:	Soil					
	MDL/Units						
Physical Characteristics							
% Solids	0.1 % by Wt.	86.7	-	-	-	-	-
Metals							
Antimony	1.0 ug/g	<1.0	-	-	-	7.5 ug/g	7.5 ug/g
Arsenic	1.0 ug/g	7.9	-	-	-	18 ug/g	18 ug/g
Barium	1.0 ug/g	58.4	-	-	-	390 ug/g	390 ug/g
Beryllium	0.5 ug/g	0.8	-	-	-	4 ug/g	5 ug/g
Boron	5.0 ug/g	9.2	-	-	-	120 ug/g	120 ug/g
Boron, available	0.5 ug/g	<0.5	-	-	-	1.5 ug/g	1.5 ug/g
Cadmium	0.5 ug/g	<0.5	-	-	-	1.2 ug/g	1.2 ug/g
Chromium	5.0 ug/g	22.0	-	-	-	160 ug/g	160 ug/g
Chromium (VI)	0.2 ug/g	0.3	-	-	-	8 ug/g	10 ug/g
Cobalt	1.0 ug/g	10.2	-	-	-	22 ug/g	22 ug/g
Copper	5.0 ug/g	27.5	-	-	-	140 ug/g	180 ug/g
Lead	1.0 ug/g	14.7	-	-	-	120 ug/g	120 ug/g
Mercury	0.1 ug/g	<0.1	-	-	-	0.27 ug/g	1.8 ug/g
Molybdenum	1.0 ug/g	<1.0	-	-	-	6.9 ug/g	6.9 ug/g
Nickel	5.0 ug/g	21.2	-	-	-	100 ug/g	130 ug/g
Selenium	1.0 ug/g	<1.0	-	-	-	2.4 ug/g	2.4 ug/g
Silver	0.3 ug/g	<0.3	-	-	-	20 ug/g	25 ug/g
Thallium	1.0 ug/g	<1.0	-	-	-	1 ug/g	1 ug/g
Uranium	1.0 ug/g	<1.0	-	-	-	23 ug/g	23 ug/g
Vanadium	10.0 ug/g	33.2	-	-	-	86 ug/g	86 ug/g
Zinc	20.0 ug/g	56.4	-	-	-	340 ug/g	340 ug/g

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals								
Antimony	ND	1.0	ug/g					
Arsenic	ND	1.0	ug/g					
Barium	ND	1.0	ug/g					
Beryllium	ND	0.5	ug/g					
Boron, available	ND	0.5	ug/g					
Boron	ND	5.0	ug/g					
Cadmium	ND	0.5	ug/g					
Chromium (VI)	ND	0.2	ug/g					
Chromium	ND	5.0	ug/g					
Cobalt	ND	1.0	ug/g					
Copper	ND	5.0	ug/g					
Lead	ND	1.0	ug/g					
Mercury	ND	0.1	ug/g					
Molybdenum	ND	1.0	ug/g					
Nickel	ND	5.0	ug/g					
Selenium	ND	1.0	ug/g					
Silver	ND	0.3	ug/g					
Thallium	ND	1.0	ug/g					
Uranium	ND	1.0	ug/g					
Vanadium	ND	10.0	ug/g					
Zinc	ND	20.0	ug/g					
Volatiles								
Acetone	ND	0.50	ug/g					
Benzene	ND	0.02	ug/g					
Bromodichloromethane	ND	0.05	ug/g					
Bromoform	ND	0.05	ug/g					
Bromomethane	ND	0.05	ug/g					
Carbon Tetrachloride	ND	0.05	ug/g					
Chlorobenzene	ND	0.05	ug/g					
Chloroform	ND	0.05	ug/g					
Dibromochloromethane	ND	0.05	ug/g					
Dichlorodifluoromethane	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
1,2-Dichlorobenzene	ND	0.05	ug/g					
1,3-Dichlorobenzene	ND	0.05	ug/g					
1,4-Dichlorobenzene	ND	0.05	ug/g					
1,1-Dichloroethane	ND	0.05	ug/g					
1,2-Dichloroethane	ND	0.05	ug/g					
1,1-Dichloroethylene	ND	0.05	ug/g					
cis-1,2-Dichloroethylene	ND	0.05	ug/g					
trans-1,2-Dichloroethylene	ND	0.05	ug/g					
1,2-Dichloropropane	ND	0.05	ug/g					
cis-1,3-Dichloropropylene	ND	0.05	ug/g					
trans-1,3-Dichloropropylene	ND	0.05	ug/g					
1,3-Dichloropropene, total	ND	0.05	ug/g					
Ethylbenzene	ND	0.05	ug/g					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g					
Hexane	ND	0.05	ug/g					
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g					
Methyl Isobutyl Ketone	ND	0.50	ug/g					
Methyl tert-butyl ether	ND	0.05	ug/g					
Methylene Chloride	ND	0.05	ug/g					
Styrene	ND	0.05	ug/g					
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g					
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g					
Tetrachloroethylene	ND	0.05	ug/g					
Toluene	ND	0.05	ug/g					
1,1,1-Trichloroethane	ND	0.05	ug/g					
1,1,2-Trichloroethane	ND	0.05	ug/g					
Trichloroethylene	ND	0.05	ug/g					
Trichlorofluoromethane	ND	0.05	ug/g					
Vinyl chloride	ND	0.02	ug/g					
m,p-Xylenes	ND	0.05	ug/g					
o-Xylene	ND	0.05	ug/g					
Xylenes, total	ND	0.05	ug/g					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*9.44*		*%*	*118*	*50-140*			
Surrogate: Dibromofluoromethane	*8.91*		*%*	*111*	*50-140*			
Surrogate: Toluene-d8	*8.89*		*%*	*111*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Antimony	ND	1.0	ug/g	ND			NC	30	
Arsenic	4.8	1.0	ug/g	4.9			2.2	30	
Barium	25.2	1.0	ug/g	24.1			4.2	30	
Beryllium	ND	0.5	ug/g	ND			NC	30	
Boron, available	ND	0.5	ug/g	ND			NC	35	
Boron	5.2	5.0	ug/g	5.7			9.9	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium (VI)	ND	0.2	ug/g	ND			NC	35	
Chromium	9.9	5.0	ug/g	10.0			1.0	30	
Cobalt	3.9	1.0	ug/g	3.8			2.3	30	
Copper	12.6	5.0	ug/g	12.6			0.1	30	
Lead	12.5	1.0	ug/g	12.7			1.3	30	
Mercury	ND	0.1	ug/g	ND			NC	30	
Molybdenum	1.7	1.0	ug/g	1.7			3.5	30	
Nickel	10.7	5.0	ug/g	10.4			3.3	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	ND	0.3	ug/g	ND			NC	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	20.6	10.0	ug/g	23.4			12.6	30	
Zinc	42.0	20.0	ug/g	41.6			1.1	30	
Physical Characteristics									
% Solids	100	0.1	% by Wt.	88.7			12.0	25	
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	*17.6*		*%*		*140*	*50-140*			
Surrogate: Dibromofluoromethane	*14.9*		*%*		*118*	*50-140*			
Surrogate: Toluene-d8	*16.4*		*%*		*130*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Metals									
Arsenic	48.9	1.0	ug/g	2.0	93.9	70-130			
Barium	55.4	1.0	ug/g	9.6	91.6	70-130			
Beryllium	49.3	0.5	ug/g	ND	98.3	70-130			
Boron, available	4.25	0.5	ug/g	ND	85.0	70-122			
Boron	48.4	5.0	ug/g	ND	92.2	70-130			
Cadmium	44.5	0.5	ug/g	ND	88.9	70-130			
Chromium (VI)	0.1	0.2	ug/g	ND	71.0	70-130			
Chromium	55.1	5.0	ug/g	ND	102	70-130			
Cobalt	50.1	1.0	ug/g	1.5	97.2	70-130			
Copper	50.6	5.0	ug/g	5.1	91.1	70-130			
Lead	49.9	1.0	ug/g	5.1	89.6	70-130			
Mercury	1.30	0.1	ug/g	ND	86.8	70-130			
Molybdenum	47.6	1.0	ug/g	ND	93.9	70-130			
Nickel	51.9	5.0	ug/g	ND	95.4	70-130			
Selenium	45.0	1.0	ug/g	ND	89.5	70-130			
Silver	42.1	0.3	ug/g	ND	84.3	70-130			
Thallium	42.5	1.0	ug/g	ND	84.9	70-130			
Uranium	44.9	1.0	ug/g	ND	89.2	70-130			
Vanadium	59.1	10.0	ug/g	ND	99.5	70-130			
Zinc	60.8	20.0	ug/g	ND	88.3	70-130			
Volatiles									
Acetone	9.92	0.50	ug/g	ND	99.2	50-140			
Benzene	3.45	0.02	ug/g	ND	86.3	60-130			
Bromodichloromethane	3.96	0.05	ug/g	ND	99.0	60-130			
Bromoform	3.78	0.05	ug/g	ND	94.6	60-130			
Bromomethane	3.19	0.05	ug/g	ND	79.7	50-140			
Carbon Tetrachloride	3.21	0.05	ug/g	ND	80.2	60-130			
Chlorobenzene	3.58	0.05	ug/g	ND	89.4	60-130			
Chloroform	3.72	0.05	ug/g	ND	93.0	60-130			
Dibromochloromethane	3.65	0.05	ug/g	ND	91.1	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Dichlorodifluoromethane	3.74	0.05	ug/g	ND	93.4	50-140			
1,2-Dichlorobenzene	3.58	0.05	ug/g	ND	89.5	60-130			
1,3-Dichlorobenzene	3.62	0.05	ug/g	ND	90.4	60-130			
1,4-Dichlorobenzene	3.69	0.05	ug/g	ND	92.1	60-130			
1,1-Dichloroethane	3.70	0.05	ug/g	ND	92.6	60-130			
1,2-Dichloroethane	3.63	0.05	ug/g	ND	90.8	60-130			
1,1-Dichloroethylene	2.86	0.05	ug/g	ND	71.4	60-130			
cis-1,2-Dichloroethylene	3.28	0.05	ug/g	ND	82.0	60-130			
trans-1,2-Dichloroethylene	2.85	0.05	ug/g	ND	71.3	60-130			
1,2-Dichloropropane	3.75	0.05	ug/g	ND	93.8	60-130			
cis-1,3-Dichloropropylene	3.87	0.05	ug/g	ND	96.7	60-130			
trans-1,3-Dichloropropylene	3.61	0.05	ug/g	ND	90.4	60-130			
Ethylbenzene	3.33	0.05	ug/g	ND	83.2	60-130			
Ethylene dibromide (dibromoethane, 1,2-)	3.58	0.05	ug/g	ND	89.4	60-130			
Hexane	3.43	0.05	ug/g	ND	85.8	60-130			
Methyl Ethyl Ketone (2-Butanone)	8.03	0.50	ug/g	ND	80.3	50-140			
Methyl Isobutyl Ketone	7.89	0.50	ug/g	ND	78.9	50-140			
Methyl tert-butyl ether	6.21	0.05	ug/g	ND	62.1	50-140			
Methylene Chloride	3.87	0.05	ug/g	ND	96.9	60-130			
Styrene	3.20	0.05	ug/g	ND	80.0	60-130			
1,1,1,2-Tetrachloroethane	3.64	0.05	ug/g	ND	90.9	60-130			
1,1,2,2-Tetrachloroethane	4.34	0.05	ug/g	ND	108	60-130			
Tetrachloroethylene	2.83	0.05	ug/g	ND	70.9	60-130			
Toluene	3.57	0.05	ug/g	ND	89.3	60-130			
1,1,1-Trichloroethane	3.48	0.05	ug/g	ND	87.0	60-130			
1,1,2-Trichloroethane	4.25	0.05	ug/g	ND	106	60-130			
Trichloroethylene	3.16	0.05	ug/g	ND	79.0	60-130			
Trichlorofluoromethane	3.19	0.05	ug/g	ND	79.7	50-140			
Vinyl chloride	2.88	0.02	ug/g	ND	72.1	50-140			
m,p-Xylenes	6.54	0.05	ug/g	ND	81.8	60-130			
o-Xylene	3.53	0.05	ug/g	ND	88.3	60-130			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	*8.39*		*%*		*105*	*50-140*			
Surrogate: Dibromofluoromethane	*8.42*		*%*		*105*	*50-140*			
Surrogate: Toluene-d8	*7.77*		*%*		*97.2*	*50-140*			

Qualifier Notes:

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Soil results are reported on a dry weight basis unlesss otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

PARACEL LABORATORIES LTD.

Paracel ID: 2411497

Paracel Order Number (Lab Use Only)	Chain of Custody (Lab Use Only)
2411497	№ 143937

Client Name: G2S Consulting Inc.
Contact Name: Rachael Lesmeister
Address: 37 Sandiford Dr. Suite 411 Stouffville. ON
Telephone: 416-275-3954

Project Ref: G2S24012C
Quote #: 24-109
PO #: 1840 + 1850 Bloor Street
E-mail: stephaniel@g2sconsulting.com
rachaell@ " "

Page 1 of 2

Turnaround Time
☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular
Date Required: _____

☒ REG 153/04 ☐ REG 406/19

Other Regulation
☐ Table 1 ☒ Res/Park ☐ Med/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☒ Table 3 ☐ Agri/Other
☐ Table ___
For RSC: ☒ Yes ☐ No
☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU-Storm
Mun: _____
☐ Other

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (paint A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	OC Pesticides	Reg 153 metals			
1	BH102 S3	S		1	Feb13/24	10:32								X				
2	BH107 S2	S		1	↓	1:36								X				
3	BH108 S2	S		1	↓	1:45								X				
4	BH201 S8	S		2	Mar8/24	9:06		X										
5	BH202 S5	S		2	↓	11:18		X										
6	BH202 S1	S		1	↓	11:18								X	X			
7	BH203 S1	S		1	↓	1:27								X	X			
8	BH203 S6	S		2	↓	1:27		X										
9	BH204 S1	S		1	↓	3:22								X	X			
10	BH205 S1	S		1	↓	3:41								X	X			

Comments:

Method of Delivery: Rubex

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): Rachael Lesmeister	Date/Time: 14-MAR-24, 15:25	Date/Time: Mar/16/2024 13:17	Date/Time: Mar 16 2024 13:19
Date/Time: Mar 14/24 2:08	Temperature: 6.2 °C	Temperature: 4.8 °C	pH Verified: ☐ By:

PARACEL LABORATORIES LTD.

Paracel ID: 2411497

Paracel Order Number (Lab Use Only)	Chain of Custody (Lab Use Only)
2411497	№ 143929

Page 2 of 2

Client Name:	G2S Consulting Inc.
Contact Name:	Rachael Lesmeister
Address:	37 Sandiford Dr. Suite 411 Stouffville, ON L4A 3Z2
Telephone:	416-275-3954
Project Ref:	G2S24012C
Quote #:	24-109
PO #:	1840 + 1850 Bloor Street
E-mail:	Stephanie1@g2sconsulting.com rachaell@ " "

Turnaround Time

☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular

Date Required: _____

☒ REG 153/04 ☐ REG 406/19	Other Regulation
☐ Table 1 ☒ Res/Park ☐ Med/Fine	☐ REG 558 ☐ PWQO
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ CCME ☐ MISA
☒ Table 3 ☐ Agri/Other	☐ SU - Sani ☐ SU-Storm
☐ Table ___	Mun: _____
For RSC: ☒ Yes ☐ No	☐ Other

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (paint A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	OC Pesticides	Reg 153 metals			
1	BH206 S1	S		1	Mar13/24	4:00								X	X			
2	BH207 S5	S		2	↓	11:18		X										
3	BH208 S1	S		1	↓	1:27								X	X			
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Comments:

Method of Delivery: Rubbex

Relinquished By (Sign): Rachael Lesmeister	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): Rachael Lesmeister	Date/Time: 14-MAR-24, 15:25	Date/Time: Mar/16/2024 13:19	Date/Time: Mar/16/2024 15:19
Date/Time: Mar 14/24 2:08	Temperature: 6.2 °C	Temperature: 4.5 °C	pH Verified: ☐ By:

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Subcontracted Analysis

G2S Environmental Consulting Inc. (Stouffville)
37 Sandiford Drive, Suite 411
Stouffville, ON L4A 7X5
Attn: Rachael Lesmeister

Paracel Report No.	**2411497**
Client Project(s):	**G2S24012C**
Client PO:	**1840 + 1850 Bloor Street**
Reference:	**Standing Offer - ENV**
CoC Number:	**143937, 143929**

Order Date:	14-Mar-24
Report Date:	28-Jun-24

Sample(s) from this project were subcontracted for the listed parameters. A copy of the subcontractor's report is attached

Paracel ID	Client ID	Analysis
2411497-01	BH102 S3	Pesticides - Organochlorine in soil
2411497-02	BH107 S2	Pesticides - Organochlorine in soil
2411497-03	BH108 S2	Pesticides - Organochlorine in soil
2411497-06	BH202 S1	Pesticides - Organochlorine in soil
2411497-07	BH203 S1	Pesticides - Organochlorine in soil
2411497-09	BH204 S1	Pesticides - Organochlorine in soil
2411497-10	BH205 S1	Pesticides - Organochlorine in soil
2411497-11	BH206 S1	Pesticides - Organochlorine in soil
2411497-13	BH208 S1	Pesticides - Organochlorine in soil

Revision 1 - this report includes data for additional samples

TESTMARK Laboratories Ltd.
Committed to Quality and Service

CERTIFICATE OF ANALYSIS

Client:	Dale Robertson	Work Order Number:	529374
Company:	Paracel Laboratories Ltd. - Ottawa	PO #:	
Address:	300-2319 St. Laurent Blvd.	Regulation:	O.Reg 153 Table 3 Soil Residential/Parkland/Inst. (Fine/Medium)
	Ottawa, ON, K1G 4J8	Project #:	2411497
Phone/Fax:	(613) 731-9577 / (613) 731-9064	DWS #:	
Email:	drobertson@paracellabs.com	Sampled By:	
Date Order Received:	3/22/2024	Analysis Started:	3/25/2024
Arrival Temperature:	5 C	Analysis Completed:	3/27/2024

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
BH102 S3	1986688	Soil	None		2/13/2024	10:32 AM
BH107 S2	1986689	Soil	None		2/13/2024	1:36 PM
BH108 S2	1986690	Soil	None		2/13/2024	1:45 PM
BH206 S1	1986691	Soil	None		3/13/2024	4:00 PM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Moisture (A99)	Garson	Determination of Percent Moisture	In-House
OCPs Soil (A19)	Garson	Determination of Organochlorine Pesticides in Soil by GC/ECD	Modified from SW846-8081B

REPORT COMMENTS

OCPs Soil (A19): Hold time exceeded for methods BEFORE receipt date/time

Moisture (A99): Hold time exceeded for methods BEFORE receipt date/time

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CERTIFICATE OF ANALYSIS

Paracel Laboratories Ltd. - Ottawa

Work Order Number: 529374

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

WORK ORDER RESULTS

Sample Description	BH102 S3		BH107 S2		BH108 S2		BH206 S1			
Sample Date	2/13/2024 10:32 AM		2/13/2024 1:36 PM		2/13/2024 1:45 PM		3/13/2024 4:00 PM			
Lab ID	1986688		1986689		1986690		1986691			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkl and/Inst. (Fine/Medium)
% Moisture	9.2	0.1	16.0	0.1	18.7	0.1	23.6	0.1	%	~

Sample Description	BH102 S3		BH107 S2		BH108 S2		BH206 S1			
Sample Date	2/13/2024 10:32 AM		2/13/2024 1:36 PM		2/13/2024 1:45 PM		3/13/2024 4:00 PM			
Lab ID	1986688		1986689		1986690		1986691			
OC Pesticides	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkl and/Inst. (Fine/Medium)
2,4'-DDD	<0.01	0.01	<0.01	0.01	0.06	0.01	<0.01 [<0.01]	0.01	µg/g	~
2,4'-DDE	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
2,4'-DDT	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~

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Work Order Number: 529374

Sample Description	BH102 S3		BH107 S2		BH108 S2		BH206 S1			
Sample Date	2/13/2024 10:32 AM		2/13/2024 1:36 PM		2/13/2024 1:45 PM		3/13/2024 4:00 PM			
Lab ID	1986688		1986689		1986690		1986691			
OC Pesticides	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkl and/Inst. (Fine/Medium)
4,4'-DDD	<0.01	0.01	<0.01	0.01	0.09	0.01	<0.01 [<0.01]	0.01	µg/g	~
4,4'-DDE	<0.01	0.01	<0.01	0.01	0.3	0.1*	0.03 [0.05]	0.01	µg/g	~
4,4'-DDT	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
Aldrin	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.05
DDD (Total) (Calc.)	<0.01	0.01	<0.01	0.01	0.14	0.01	<0.01 [<0.01]	0.01	µg/g	3.3
DDE (Total) (Calc.)	<0.01	0.01	<0.01	0.01	0.30	0.01	0.03 [0.05]	0.01	µg/g	0.33
DDT (Total) (Calc.)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	1.4
Decachlorobiphenyl (Surr.)	124	N/A	129	N/A	123	N/A	122 [125]	N/A	% Rec	~
Dieldrin	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.05
Endosulfan I	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
Endosulfan I + II (Calc.)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.04
Endosulfan II	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
Endosulfan sulfate	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
Endrin	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.04
Endrin aldehyde	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
Heptachlor	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.15

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CERTIFICATE OF ANALYSIS

Paracel Laboratories Ltd. - Ottawa

Work Order Number: 529374

Sample Description	BH102 S3		BH107 S2		BH108 S2		BH206 S1			
Sample Date	2/13/2024 10:32 AM		2/13/2024 1:36 PM		2/13/2024 1:45 PM		3/13/2024 4:00 PM			
Lab ID	1986688		1986689		1986690		1986691			
OC Pesticides	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkl and/Inst. (Fine/Medium)
Heptachlor epoxide	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.05
Hexachlorobenzene	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.52
Hexachlorobutadiene	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.014
Hexachloroethane	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.071
Methoxychlor	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.13
Mirex	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
Oxychlordane	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
ß-BHC	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
α - Chlordane	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
α + γ -Chlordane (Calc.)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.05
α-BHC	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
γ - Chlordane	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~
γ-BHC (Lindane)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	0.063
δ-BHC	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01 [<0.01]	0.01	µg/g	~

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CERTIFICATE OF ANALYSIS

Paracel Laboratories Ltd. - Ottawa

Work Order Number: 529374

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

% Rec: Surrogate compounds are added to the sample in some cases and the recovery is reported as a % recovered.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

*Dilution: In the MDL column an asterisk (*) indicates a sample dilution was performed.

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CERTIFICATE OF ANALYSIS

Client:	Mark Foto	Work Order Number:	529152
Company:	Paracel Laboratories Ltd. - Ottawa	PO #:	
Address:	300-2319 St. Laurent Blvd.	Regulation:	O.Reg 153 Table 3 Soil Residential/Parkland/Institutional (Coarse)
	Ottawa, ON, K1G 4J8	Project #:	2411497
Phone/Fax:	(613) 731-9577 / (613) 731-9064	DWS #:	
Email:	mfoto@paracellabs.com	Sampled By:	
Date Order Received:	3/20/2024	Analysis Started:	3/25/2024
Arrival Temperature:	15.8 C	Analysis Completed:	3/27/2024

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
BH202S1	1985985	Soil	None		3/13/2024	9:00 AM
BH203S1	1985986	Soil	None		3/13/2024	9:00 AM
BH204S1	1985987	Soil	None		3/13/2024	9:00 AM
BH205S1	1985988	Soil	None		3/13/2024	9:00 AM
BH208S1	1985989	Soil	None		3/13/2024	9:00 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Moisture (A99)	Garson	Determination of Percent Moisture	In-House
OCPs Soil (A19)	Garson	Determination of Organochlorine Pesticides in Soil by GC/ECD	Modified from SW846-8081B

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CERTIFICATE OF ANALYSIS

Paracel Laboratories Ltd. - Ottawa

Work Order Number: 529152

This report has been approved by:

Marc Creighton
Laboratory Director

WORK ORDER RESULTS

Sample Description	BH202S1		BH203S1		BH204S1		BH205S1			
Sample Date	3/13/2024 9:00 AM		3/13/2024 9:00 AM		3/13/2024 9:00 AM		3/13/2024 9:00 AM			
Lab ID	1985985		1985986		1985987		1985988			
General Chemistry	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkland/Institutional (Coarse)
% Moisture	12.2	0.1	11.3	0.1	21.3	0.1	13.7	0.1	%	~

Sample Description	BH208S1			
Sample Date	3/13/2024 9:00 AM			
Lab ID	1985989			
General Chemistry	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkland/Institutional (Coarse)
% Moisture	11.0	0.1	%	~

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Paracel Laboratories Ltd. - Ottawa

Work Order Number: 529152

Sample Description	BH202S1		BH203S1		BH204S1		BH205S1			
Sample Date	3/13/2024 9:00 AM		3/13/2024 9:00 AM		3/13/2024 9:00 AM		3/13/2024 9:00 AM			
Lab ID	1985985		1985986		1985987		1985988			
OC Pesticides	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkl and/Institutional (Coarse)
2,4'-DDD	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
2,4'-DDE	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
2,4'-DDT	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
4,4'-DDD	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
4,4'-DDE	0.09	0.01	0.02	0.01	0.15	0.01	0.07	0.01	µg/g	~
4,4'-DDT	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
Aldrin	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.05
DDD (Total) (Calc.)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	3.3
DDE (Total) (Calc.)	0.09	0.01	0.02	0.01	0.15	0.01	0.07	0.01	µg/g	0.26
DDT (Total) (Calc.)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	1.4
Decachlorobiphenyl (Surr.)	125	N/A	133	N/A	127	N/A	113	N/A	% Rec	~
Dieldrin	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.05
Endosulfan I	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
Endosulfan I + II (Calc.)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.04
Endosulfan II	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
Endosulfan sulfate	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
Endrin	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.04
Endrin aldehyde	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
Heptachlor	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.15
Heptachlor epoxide	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.05
Hexachlorobenzene	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.52
Hexachlorobutadiene	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.012

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Work Order Number: 529152

Sample Description	BH202S1		BH203S1		BH204S1		BH205S1			
Sample Date	3/13/2024 9:00 AM		3/13/2024 9:00 AM		3/13/2024 9:00 AM		3/13/2024 9:00 AM			
Lab ID	1985985		1985986		1985987		1985988			
OC Pesticides	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkl and/Institutional (Coarse)
Hexachloroethane	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.089
Methoxychlor	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.13
Mirex	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
Oxychlordane	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
ß-BHC	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
α - Chlordane	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
α + γ -Chlordane (Calc.)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.05
α-BHC	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
γ - Chlordane	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~
γ-BHC (Lindane)	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	0.056
δ-BHC	<0.01	0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01	µg/g	~

Sample Description	BH208S1			
Sample Date	3/13/2024 9:00 AM			
Lab ID	1985989			
OC Pesticides	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkl and/Institutional (Coarse)
2,4'-DDD	<0.01	0.01	µg/g	~
2,4'-DDE	<0.01	0.01	µg/g	~
2,4'-DDT	<0.01	0.01	µg/g	~

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CERTIFICATE OF ANALYSIS

Paracel Laboratories Ltd. - Ottawa

Work Order Number: 529152

Sample Description	BH208S1
Sample Date	3/13/2024 9:00 AM
Lab ID	1985989

OC Pesticides	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkl and/Institutional (Coarse)
4,4'-DDD	<0.01	0.01	µg/g	~
4,4'-DDE	0.03	0.01	µg/g	~
4,4'-DDT	<0.01	0.01	µg/g	~
Aldrin	<0.01	0.01	µg/g	0.05
DDD (Total) (Calc.)	<0.01	0.01	µg/g	3.3
DDE (Total) (Calc.)	0.03	0.01	µg/g	0.26
DDT (Total) (Calc.)	<0.01	0.01	µg/g	1.4
Decachlorobiphenyl (Surr.)	129	N/A	% Rec	~
Dieldrin	<0.01	0.01	µg/g	0.05
Endosulfan I	<0.01	0.01	µg/g	~
Endosulfan I + II (Calc.)	<0.01	0.01	µg/g	0.04
Endosulfan II	<0.01	0.01	µg/g	~
Endosulfan sulfate	<0.01	0.01	µg/g	~
Endrin	<0.01	0.01	µg/g	0.04
Endrin aldehyde	<0.01	0.01	µg/g	~
Heptachlor	<0.01	0.01	µg/g	0.15
Heptachlor epoxide	<0.01	0.01	µg/g	0.05
Hexachlorobenzene	<0.01	0.01	µg/g	0.52
Hexachlorobutadiene	<0.01	0.01	µg/g	0.012
Hexachloroethane	<0.01	0.01	µg/g	0.089
Methoxychlor	<0.01	0.01	µg/g	0.13
Mirex	<0.01	0.01	µg/g	~

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CERTIFICATE OF ANALYSIS

Paracel Laboratories Ltd. - Ottawa

Work Order Number: 529152

Sample Description	BH208S1
Sample Date	3/13/2024 9:00 AM
Lab ID	1985989

OC Pesticides	Result	MDL	Units	Criteria: O.Reg 153 Table 3 Soil Residential/Parkl and/Institutional (Coarse)
Oxychlordane	<0.01	0.01	µg/g	~
ß-BHC	<0.01	0.01	µg/g	~
α - Chlordane	<0.01	0.01	µg/g	~
α + γ -Chlordane (Calc.)	<0.01	0.01	µg/g	0.05
α-BHC	<0.01	0.01	µg/g	~
γ - Chlordane	<0.01	0.01	µg/g	~
γ-BHC (Lindane)	<0.01	0.01	µg/g	0.056
δ-BHC	<0.01	0.01	µg/g	~

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

% Rec: Surrogate compounds are added to the sample in some cases and the recovery is reported as a % recovered.

~: In a criteria column indicates the criteria is not applicable for the parameter row.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

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Certificate of Analysis

G2S Environmental Consulting Inc. (Burlington)
4361 Harvester Road, Unit 12
Burlington, ON L7L 5M4
Attn: Rachael Lesmeister

Client PO:
Project: 24012B
Custody:

Report Date: 6-Jun-2024
Order Date: 31-May-2024

Order #: 2422529

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2422529-01	MW 102

Approved By:

Milan Ralitsch, PhD
Senior Technical Manager

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Chromium, hexavalent - water	MOE E3056 - colourimetric	3-Jun-24	4-Jun-24
PHC F1	CWS Tier 1 - P&T GC-FID	5-Jun-24	6-Jun-24
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	5-Jun-24	5-Jun-24
REG 153: Mercury by CVAA	EPA 245.2 - Cold Vapour AA	3-Jun-24	3-Jun-24
REG 153: Metals by ICP/MS, water	EPA 200.8, ICP-MS	3-Jun-24	3-Jun-24
REG 153: VOCs by P&T GC-MS	EPA 624 - P&T GC-MS	6-Jun-24	6-Jun-24

Summary of Criteria Exceedances

(If this page is blank then there are no exceedances)

Only those criteria that a sample exceeds will be highlighted in red

Regulatory Comparison:

Paracel Laboratories has provided regulatory guidelines on this report for informational purposes only and makes no representations or warranties that the data is accurate or reflects the current regulatory values. The user is advised to consult with the appropriate official regulations to evaluate compliance. Sample results that are highlighted have exceeded the selected regulatory limit. Calculated uncertainty estimations have not been applied for determining regulatory exceedances.

Sample	Analyte	MDL / Units	Result	Reg 153/04 -T3 Non-Potable Groundwater, coarse	Reg 153/04 -T3 Non-Potable Groundwater, fine

	Client ID:	MW 102	-	-	-	Criteria:	
	Sample Date:	31-May-24 09:00	-	-	-	Reg 153/04 -T3 Non-Potable Groundwater, coarse	Reg 153/04 -T3 Non-Potable Groundwater, fine
	Sample ID:	2422529-01	-	-	-		
	Matrix:	Ground Water	-	-	-		
	MDL/Units						
Metals							
Mercury	0.1 ug/L	<0.1	-	-	-	0.29 ug/L	2.8 ug/L
Antimony	0.5 ug/L	<0.5	-	-	-	20000 ug/L	20000 ug/L
Arsenic	1.0 ug/L	<1.0	-	-	-	1900 ug/L	1900 ug/L
Barium	1.0 ug/L	38.1	-	-	-	29000 ug/L	29000 ug/L
Beryllium	0.5 ug/L	<0.5	-	-	-	67 ug/L	67 ug/L
Boron	10.0 ug/L	236	-	-	-	45000 ug/L	45000 ug/L
Cadmium	0.2 ug/L	<0.2	-	-	-	2.7 ug/L	2.7 ug/L
Chromium	1.0 ug/L	<1.0	-	-	-	810 ug/L	810 ug/L
Chromium (VI)	10 ug/L	<10	-	-	-	140 ug/L	140 ug/L
Cobalt	0.5 ug/L	1.0	-	-	-	66 ug/L	66 ug/L
Copper	0.5 ug/L	0.8	-	-	-	87 ug/L	87 ug/L
Lead	0.2 ug/L	<0.2	-	-	-	25 ug/L	25 ug/L
Molybdenum	0.5 ug/L	10.4	-	-	-	9200 ug/L	9200 ug/L
Nickel	1.0 ug/L	3.9	-	-	-	490 ug/L	490 ug/L
Selenium	1.0 ug/L	<1.0	-	-	-	63 ug/L	63 ug/L
Silver	0.2 ug/L	<0.2	-	-	-	1.5 ug/L	1.5 ug/L
Sodium	200 ug/L	60300	-	-	-	2300000 ug/L	2300000 ug/L
Thallium	0.5 ug/L	<0.5	-	-	-	510 ug/L	510 ug/L
Uranium	0.2 ug/L	14.7	-	-	-	420 ug/L	420 ug/L
Vanadium	0.5 ug/L	1.4	-	-	-	250 ug/L	250 ug/L
Zinc	5.0 ug/L	<5.0	-	-	-	1100 ug/L	1100 ug/L
Volatiles							
Acetone	5.0 ug/L	<5.0	-	-	-	130000 ug/L	130000 ug/L
Benzene	0.5 ug/L	<0.5	-	-	-	44 ug/L	430 ug/L
Bromodichloromethane	0.5 ug/L	<0.5	-	-	-	85000 ug/L	85000 ug/L

	Client ID:	MW 102	-	-	-	Criteria:	
	Sample Date:	31-May-24 09:00	-	-	-	Reg 153/04 -T3 Non-Potable Groundwater, coarse	Reg 153/04 -T3 Non-Potable Groundwater, fine
	Sample ID:	2422529-01	-	-	-		
	Matrix:	Ground Water	-	-	-		
	MDL/Units						
Volatiles							
Bromoform	0.5 ug/L	<0.5	-	-	-	380 ug/L	770 ug/L
Bromomethane	0.5 ug/L	<0.5	-	-	-	5.6 ug/L	56 ug/L
Carbon Tetrachloride	0.2 ug/L	<0.2	-	-	-	0.79 ug/L	8.4 ug/L
Chlorobenzene	0.5 ug/L	<0.5	-	-	-	630 ug/L	630 ug/L
Chloroform	0.5 ug/L	<0.5	-	-	-	2.4 ug/L	22 ug/L
Dibromochloromethane	0.5 ug/L	<0.5	-	-	-	82000 ug/L	82000 ug/L
Dichlorodifluoromethane	1.0 ug/L	<1.0	-	-	-	4400 ug/L	4400 ug/L
1,2-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	4600 ug/L	9600 ug/L
1,3-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	9600 ug/L	9600 ug/L
1,4-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-	8 ug/L	67 ug/L
1,1-Dichloroethane	0.5 ug/L	<0.5	-	-	-	320 ug/L	3100 ug/L
1,2-Dichloroethane	0.5 ug/L	<0.5	-	-	-	1.6 ug/L	12 ug/L
1,1-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	1.6 ug/L	17 ug/L
cis-1,2-Dichloroethylene	0.5 ug/L	0.9	-	-	-	1.6 ug/L	17 ug/L
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-	1.6 ug/L	17 ug/L
1,2-Dichloropropane	0.5 ug/L	<0.5	-	-	-	16 ug/L	140 ug/L
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	-	-	-	5.2 ug/L	45 ug/L
Ethylbenzene	0.5 ug/L	<0.5	-	-	-	2300 ug/L	2300 ug/L
Ethylene dibromide (dibromoethane,	0.2 ug/L	<0.2	-	-	-	0.25 ug/L	0.83 ug/L
Hexane	1.0 ug/L	<1.0	-	-	-	51 ug/L	520 ug/L
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	-	-	-	470000 ug/L	1500000 ug/L
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	-	-	-	140000 ug/L	580000 ug/L
Methyl tert-butyl ether	2.0 ug/L	<2.0	-	-	-	190 ug/L	1400 ug/L

Certificate of Analysis

Report Date: 06-Jun-2024

Client: **G2S Environmental Consulting Inc. (Burlington)**

Order Date: 31-May-2024

Client PO:

Project Description: 24012B

	Client ID:	MW 102	-	-	-	**Criteria:**	
	Sample Date:	31-May-24 09:00	-	-	-	**Reg 153/04 -T3 Non-Potable Groundwater, coarse**	**Reg 153/04 -T3 Non-Potable Groundwater, fine**
	Sample ID:	2422529-01	-	-	-		
	Matrix:	Ground Water	-	-	-		
	MDL/Units						
Volatiles							
Methylene Chloride	5.0 ug/L	<5.0	-	-	-	610 ug/L	5500 ug/L
Styrene	0.5 ug/L	<0.5	-	-	-	1300 ug/L	9100 ug/L
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-	3.3 ug/L	28 ug/L
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-	3.2 ug/L	15 ug/L
Tetrachloroethylene	0.5 ug/L	<0.5	-	-	-	1.6 ug/L	17 ug/L
Toluene	0.5 ug/L	<0.5	-	-	-	18000 ug/L	18000 ug/L
1,1,1-Trichloroethane	0.5 ug/L	<0.5	-	-	-	640 ug/L	6700 ug/L
1,1,2-Trichloroethane	0.5 ug/L	<0.5	-	-	-	4.7 ug/L	30 ug/L
Trichloroethylene	0.5 ug/L	<0.5	-	-	-	1.6 ug/L	17 ug/L
Trichlorofluoromethane	1.0 ug/L	<1.0	-	-	-	2500 ug/L	2500 ug/L
Vinyl chloride	0.5 ug/L	<0.5	-	-	-	0.5 ug/L	1.7 ug/L
m,p-Xylenes	0.5 ug/L	<0.5	-	-	-	-	-
o-Xylene	0.5 ug/L	<0.5	-	-	-	-	-
Xylenes, total	0.05 ug/L	<0.05	-	-	-	4200 ug/L	4200 ug/L
4-Bromofluorobenzene	Surrogate	105%	-	-	-	-	-
Toluene-d8	Surrogate	105%	-	-	-	-	-
Dibromofluoromethane	Surrogate	100%	-	-	-	-	-
Hydrocarbons							
F1 PHCs (C6-C10)	25 ug/L	<25	-	-	-	750 ug/L	750 ug/L
F2 PHCs (C10-C16)	100 ug/L	<100	-	-	-	150 ug/L	150 ug/L
F3 PHCs (C16-C34)	100 ug/L	<100	-	-	-	500 ug/L	500 ug/L
F4 PHCs (C34-C50)	100 ug/L	<100	-	-	-	500 ug/L	500 ug/L

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons								
F1 PHCs (C6-C10)	ND	25	ug/L					
F2 PHCs (C10-C16)	ND	100	ug/L					
F3 PHCs (C16-C34)	ND	100	ug/L					
F4 PHCs (C34-C50)	ND	100	ug/L					
Metals								
Mercury	ND	0.1	ug/L					
Antimony	ND	0.5	ug/L					
Arsenic	ND	1.0	ug/L					
Barium	ND	1.0	ug/L					
Beryllium	ND	0.5	ug/L					
Boron	ND	10.0	ug/L					
Cadmium	ND	0.2	ug/L					
Chromium (VI)	ND	10	ug/L					
Chromium	ND	1.0	ug/L					
Cobalt	ND	0.5	ug/L					
Copper	ND	0.5	ug/L					
Lead	ND	0.2	ug/L					
Molybdenum	ND	0.5	ug/L					
Nickel	ND	1.0	ug/L					
Selenium	ND	1.0	ug/L					
Silver	ND	0.2	ug/L					
Sodium	ND	200	ug/L					
Thallium	ND	0.5	ug/L					
Uranium	ND	0.2	ug/L					
Vanadium	ND	0.5	ug/L					
Zinc	ND	5.0	ug/L					
Volatiles								
Acetone	ND	5.0	ug/L					
Benzene	ND	0.5	ug/L					
Bromodichloromethane	ND	0.5	ug/L					
Bromoform	ND	0.5	ug/L					
Bromomethane	ND	0.5	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Carbon Tetrachloride	ND	0.2	ug/L					
Chlorobenzene	ND	0.5	ug/L					
Chloroform	ND	0.5	ug/L					
Dibromochloromethane	ND	0.5	ug/L					
Dichlorodifluoromethane	ND	1.0	ug/L					
1,2-Dichlorobenzene	ND	0.5	ug/L					
1,3-Dichlorobenzene	ND	0.5	ug/L					
1,4-Dichlorobenzene	ND	0.5	ug/L					
1,1-Dichloroethane	ND	0.5	ug/L					
1,2-Dichloroethane	ND	0.5	ug/L					
1,1-Dichloroethylene	ND	0.5	ug/L					
cis-1,2-Dichloroethylene	ND	0.5	ug/L					
trans-1,2-Dichloroethylene	ND	0.5	ug/L					
1,2-Dichloropropane	ND	0.5	ug/L					
cis-1,3-Dichloropropylene	ND	0.5	ug/L					
trans-1,3-Dichloropropylene	ND	0.5	ug/L					
1,3-Dichloropropene, total	ND	0.5	ug/L					
Ethylbenzene	ND	0.5	ug/L					
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L					
Hexane	ND	1.0	ug/L					
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L					
Methyl Isobutyl Ketone	ND	5.0	ug/L					
Methyl tert-butyl ether	ND	2.0	ug/L					
Methylene Chloride	ND	5.0	ug/L					
Styrene	ND	0.5	ug/L					
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L					
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L					
Tetrachloroethylene	ND	0.5	ug/L					
Toluene	ND	0.5	ug/L					
1,1,1-Trichloroethane	ND	0.5	ug/L					
1,1,2-Trichloroethane	ND	0.5	ug/L					
Trichloroethylene	ND	0.5	ug/L					
Trichlorofluoromethane	ND	1.0	ug/L					

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	ND	0.5	ug/L					
m,p-Xylenes	ND	0.5	ug/L					
o-Xylene	ND	0.5	ug/L					
Xylenes, total	ND	0.05	ug/L					
Surrogate: 4-Bromofluorobenzene	*84.6*		*%*	*105*	*50-140*			
Surrogate: Dibromofluoromethane	*84.4*		*%*	*105*	*50-140*			
Surrogate: Toluene-d8	*82.8*		*%*	*103*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L	ND			NC	30	
Metals									
Mercury	ND	0.1	ug/L	ND			NC	20	
Antimony	ND	0.5	ug/L	ND			NC	20	
Arsenic	1.5	1.0	ug/L	1.4			2.3	20	
Barium	21.6	1.0	ug/L	21.2			1.7	20	
Beryllium	ND	0.5	ug/L	ND			NC	20	
Boron	2240	10.0	ug/L	2220			0.6	20	
Cadmium	ND	0.2	ug/L	ND			NC	20	
Chromium (VI)	ND	10	ug/L	ND			NC	20	
Chromium	ND	1.0	ug/L	ND			NC	20	
Cobalt	2.5	0.5	ug/L	2.5			0.9	20	
Copper	1.0	0.5	ug/L	1.0			3.1	20	
Lead	ND	0.2	ug/L	ND			NC	20	
Molybdenum	10.5	0.5	ug/L	10.4			0.5	20	
Nickel	2.8	1.0	ug/L	2.8			0.2	20	
Selenium	ND	1.0	ug/L	ND			NC	20	
Silver	ND	0.2	ug/L	ND			NC	20	
Sodium	520000	200	ug/L	509000			2.2	20	
Thallium	ND	0.5	ug/L	ND			NC	20	
Uranium	32.5	0.2	ug/L	32.9			1.1	20	
Vanadium	ND	0.5	ug/L	ND			NC	20	
Zinc	ND	5.0	ug/L	ND			NC	20	
Volatiles									
Acetone	ND	5.0	ug/L	ND			NC	30	
Benzene	ND	0.5	ug/L	ND			NC	30	
Bromodichloromethane	ND	0.5	ug/L	ND			NC	30	
Bromoform	ND	0.5	ug/L	ND			NC	30	
Bromomethane	ND	0.5	ug/L	ND			NC	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chlorobenzene	ND	0.5	ug/L	ND			NC	30	
Chloroform	ND	0.5	ug/L	ND			NC	30	
Dibromochloromethane	ND	0.5	ug/L	ND			NC	30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Ethylene dibromide (dibromoethane, 1,2-)	ND	0.2	ug/L	ND			NC	30	
Hexane	ND	1.0	ug/L	ND			NC	30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			NC	30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			NC	30	
Methylene Chloride	ND	5.0	ug/L	ND			NC	30	
Styrene	ND	0.5	ug/L	ND			NC	30	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
Tetrachloroethylene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
Trichloroethylene	ND	0.5	ug/L	ND			NC	30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			NC	30	

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Vinyl chloride	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: 4-Bromofluorobenzene	*85.0*		*%*		*106*	*50-140*			
Surrogate: Dibromofluoromethane	*86.2*		*%*		*107*	*50-140*			
Surrogate: Toluene-d8	*82.5*		*%*		*103*	*50-140*			

Method Quality Control: LCS Dup

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F2 PHCs (C10-C16)	1810	100	ug/L	ND	109	60-140	14.0	200	
F3 PHCs (C16-C34)	4130	100	ug/L	ND	111	60-140	13.5	200	
F4 PHCs (C34-C50)	2730	100	ug/L	ND	102	60-140	10.2	200	

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	572	25	ug/L	ND	81.0	68-117			
F2 PHCs (C10-C16)	1570	100	ug/L	ND	95.0	60-140			
F3 PHCs (C16-C34)	3610	100	ug/L	ND	97.4	60-140			
F4 PHCs (C34-C50)	2460	100	ug/L	ND	92.1	60-140			
Metals									
Mercury	2.73	0.1	ug/L	ND	91.0	70-130			
Antimony	46.4	0.5	ug/L	ND	92.3	70-130			
Arsenic	56.6	1.0	ug/L	1.4	110	70-130			
Barium	71.3	1.0	ug/L	21.2	100	70-130			
Beryllium	55.2	0.5	ug/L	ND	110	70-130			
Boron	52.7	10.0	ug/L	ND	105	80-120			
Cadmium	45.8	0.2	ug/L	ND	91.6	70-130			
Chromium (VI)	226	10	ug/L	ND	113	70-130			
Chromium	59.7	1.0	ug/L	ND	119	70-130			
Cobalt	56.8	0.5	ug/L	2.5	108	70-130			
Copper	50.7	0.5	ug/L	1.0	99.3	70-130			
Lead	44.8	0.2	ug/L	ND	89.6	70-130			
Molybdenum	62.0	0.5	ug/L	10.4	103	70-130			
Nickel	55.5	1.0	ug/L	2.8	105	70-130			
Selenium	50.4	1.0	ug/L	ND	100	70-130			
Silver	50.8	0.2	ug/L	ND	102	80-120			
Sodium	528000	200	ug/L	509000	75.1	70-130			
Thallium	41.4	0.5	ug/L	ND	82.7	70-130			
Uranium	73.5	0.2	ug/L	32.9	81.2	70-130			
Vanadium	64.9	0.5	ug/L	ND	129	70-130			
Zinc	45.8	5.0	ug/L	ND	89.3	70-130			
Volatiles									
Acetone	102	5.0	ug/L	ND	102	50-140			
Benzene	44.4	0.5	ug/L	ND	111	50-140			
Bromodichloromethane	43.8	0.5	ug/L	ND	109	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Bromoform	44.7	0.5	ug/L	ND	112	50-140			
Bromomethane	51.7	0.5	ug/L	ND	131	50-140			
Carbon Tetrachloride	44.3	0.2	ug/L	ND	111	50-140			
Chlorobenzene	43.5	0.5	ug/L	ND	109	50-140			
Chloroform	44.1	0.5	ug/L	ND	110	50-140			
Dibromochloromethane	44.2	0.5	ug/L	ND	111	50-140			
Dichlorodifluoromethane	57.3	1.0	ug/L	ND	142	50-140			QM-07
1,2-Dichlorobenzene	43.3	0.5	ug/L	ND	108	50-140			
1,3-Dichlorobenzene	43.7	0.5	ug/L	ND	109	50-140			
1,4-Dichlorobenzene	42.8	0.5	ug/L	ND	107	50-140			
1,1-Dichloroethane	44.0	0.5	ug/L	ND	110	50-140			
1,2-Dichloroethane	43.2	0.5	ug/L	ND	108	50-140			
1,1-Dichloroethylene	39.3	0.5	ug/L	ND	98.3	50-140			
cis-1,2-Dichloroethylene	43.2	0.5	ug/L	ND	108	50-140			
trans-1,2-Dichloroethylene	41.2	0.5	ug/L	ND	103	50-140			
1,2-Dichloropropane	43.5	0.5	ug/L	ND	109	50-140			
cis-1,3-Dichloropropylene	46.6	0.5	ug/L	ND	117	50-140			
trans-1,3-Dichloropropylene	49.7	0.5	ug/L	ND	124	50-140			
Ethylbenzene	42.3	0.5	ug/L	ND	106	50-140			
Ethylene dibromide (dibromoethane, 1,2-)	44.5	0.2	ug/L	ND	111	50-140			
Hexane	49.1	1.0	ug/L	ND	123	50-140			
Methyl Ethyl Ketone (2-Butanone)	110	5.0	ug/L	ND	109	50-140			
Methyl Isobutyl Ketone	126	5.0	ug/L	ND	126	50-140			
Methyl tert-butyl ether	92.7	2.0	ug/L	ND	91.8	50-140			
Methylene Chloride	42.5	5.0	ug/L	ND	106	50-140			
Styrene	44.0	0.5	ug/L	ND	110	50-140			
1,1,1,2-Tetrachloroethane	42.7	0.5	ug/L	ND	107	50-140			
1,1,2,2-Tetrachloroethane	47.8	0.5	ug/L	ND	119	50-140			
Tetrachloroethylene	43.9	0.5	ug/L	ND	110	50-140			
Toluene	44.2	0.5	ug/L	ND	110	50-140			
1,1,1-Trichloroethane	43.6	0.5	ug/L	ND	109	50-140			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,2-Trichloroethane	44.6	0.5	ug/L	ND	112	50-140			
Trichloroethylene	41.8	0.5	ug/L	ND	104	50-140			
Trichlorofluoromethane	47.3	1.0	ug/L	ND	117	50-140			
Vinyl chloride	49.7	0.5	ug/L	ND	123	50-140			
m,p-Xylenes	85.8	0.5	ug/L	ND	107	50-140			
o-Xylene	42.2	0.5	ug/L	ND	105	50-140			
Surrogate: 4-Bromofluorobenzene	*78.0*		*%*		*96.8*	*50-140*			
Surrogate: Dibromofluoromethane	*81.0*		*%*		*101*	*50-140*			
Surrogate: Toluene-d8	*79.2*		*%*		*98.6*	*50-140*			

Qualifier Notes:

QC Qualifiers:

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.

- F1 range corrected for BTEX.

- F2 to F3 ranges corrected for appropriate PAHs where available.

- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.

- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.

- When reported, data for F4G has been processed using a silica gel cleanup.

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Chain Of Custody
(Lab Use Only)

Client Name: G2S	Project Ref: 24012 B	Page 1 of 1
Contact Name: Rachael Lesmeister	Quote #: Standing Offer	**Turnaround Time**
Address: 4361 Harvester Road, Unit 12	PO #: ~~1501~~	☐ 1 day ☐ 3 day
	E-mail: rachael@g2sconsulting.com	☐ 2 day ☒ Regular
Telephone:		Date Required:

☒ REG 153/04 ☐ REG 406/19

☐ Table 1 ☒ Res/Park ☐ Med/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☒ Table 3 ☐ Agri/Other
☐ Table ___
For RSC: ☐ Yes ☐ No

Other Regulation: ☐ REG 558 ☐ PWQO ☐ CCME ☐ MISA ☐ SU - Sani ☐ SU - Storm ☐ Mun: ___ ☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

	Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken Date	Sample Taken Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)					
1	MW 102	GW		6	May 31/24	AM	X	X		X	X	X						
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Comments:

Method of Delivery: Zoom

Relinquished By (Sign): Rowan Doherty	Received By Driver/Depot:	Received at Lab: KM	Verified By: KM
Relinquished By (Print): Rowan Doherty	Date/Time:	Date/Time: 5/31/24 1520	Date/Time: 5/31/24 1607
Date/Time:	Temperature: °C	Temperature: 13.9	pH Verified: ☑ By: KM