Phase Two Environmental Site Assessment

3850 Cambrian Road
Ottawa, Ontario

Choice Properties Limited Partnership

The Weston Centre
700-22 St. Clair Avenue East
Toronto, ON M4T 2S5

Prepared by:

SLR Consulting (Canada) Ltd.

100 Stone Road West, Suite 201
Guelph, ON N1G 5L3

SLR Project No:

209.013940.00001

March 24, 2023

CONFIDENTIAL

Revision Record

Revision No.	Revision Date	Revision Description
-	N/A	First Submission – Final Report to Client

Table of Contents

Tables in Text

Appendices

Appended Figures (Appendix A)

Appended Tables (Appendix C)

1.0 Executive Summary

SLR Consulting (Canada) Ltd. (SLR) was retained by Choice Properties Limited Partnership (Choice), hereinafter also referred to as the "Client", to carry out a Phase Two Environmental Site Assessment (ESA) of an undeveloped/vacant land parcel, located at 3850 Cambrian Road in Ottawa (Nepean), Ontario (hereinafter referred to as the "Site", "Phase One Property" or "Phase Two Property") and legally known as "Part of Lot 11, Concession 3 (Rideau Front) Nepean, Part 1 and Part 3 Plan 4R31049; City of Ottawa".

This Phase Two ESA report has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04 (last amendment: 214/21 on March 19, 2021) under Part XV.1 of the Environmental Protection Act (hereinafter referred to as "O. Reg. 153/04 (as amended)" or "the Regulation"); and Schedule E, Table 1, "Mandatory Requirements for Phase Two ESA Reports".

The objective of the Phase Two ESA was to investigate areas of potential environmental concern (APECs) on, in or under the Site as a result of potentially contaminating activities (PCAs) on the Site or on surrounding properties within the Phase One Study Area identified in the 2023 SLR Phase One ESA report (dated January 31, 2023) that may have had an adverse effect on the Site. In addition, this Phase Two ESA report assesses the environmental soil and groundwater conditions on the Phase Two Property and determines the location and concentration (if any) of one or more of the contaminants of potential concern identified during the 2023 SLR Phase One ESA.

Authorization to proceed with this Phase Two ESA was awarded by Ms. Madeleine Barber (Coordinator, Planning & Development) of Choice on November 15, 2022. SLR understands that the Client requires this Phase Two ESA for their site plan application submission to The City of Ottawa as part of the proposed development of the Site.

The Site is located on the north side of Cambrian Road, southwest of Seeley's Bay Street. Cambrian Road runs southwest to northeast. Phase Two Property information is presented in the following table:

Municipal Address	Property Identification Numbers (PINs)	Approximate Total Land Area	Legal Description
3850 Cambrian Road, Ottawa, Ontario	04595-2078 and 04595-2080	1.36 hectares (3.37 acres, (13,626 m^2)	Part Of Lot 11, Concession 3 (Rideau Front) Nepean, Part 1 and Part 3 Plan 4R31049; City of Ottawa

The geographic coordinates of the Phase Two Property, ownership details and contact information of the Client (who has engaged SLR to proceed with this Phase Two ESA) are presented in the following table:

Information	Details/Description
Geographical References (UTM Coordinate system)	Datum: NAD 83 Zone: 18 Easting: 441,217, Northing: 5,010,847
Client	Choice Properties Limited Partnership (Choice)
Contact Name of the Client	Ms. Madeleine Barber (Coordinator, Planning & Development of Choice Properties Limited Partnership)
Contact Address of the Client	The Weston Centre, 700-22 St. Clair Avenue East, Toronto, ON M4T 2S5

Information	Details/Description
Phase Two Property Owner(s)	CP REIT Ontario Properties Limited - It was reported that there are no beneficial owners to the Phase Two Property
Contact Name of the Owners	Stefania S. Sottile (Director, Environmental and Occupational Health & Safety Choice Properties Limited Partnership on behalf of CP REIT Ontario Properties Limited)
Contact Address of the Owners	The Weston Centre, 700-22 St. Clair Avenue East, Toronto, ON M4T 2S5

The Site consisted of an undeveloped/vacant land parcel with no buildings or structures. The majority of the site was secured by a wire fence, with fencing present along the eastern property boundary and within close proximity of the western and southern property boundaries. Surface cover across the Site consisted of soil (gravel to silty sand with clay) and vegetation (grass, shrubs, common burdock, cattails and cat tail grasses). The Site had an uneven ground surface at the time of the site visit and a slope was observed at the east portion of the Site, trending north to south and sloping to the west.

The Site was bounded to the north and west by residential properties and to the south (across Cambrian Road) by undeveloped/vacant land parcels as well as a Mattamy Homes Sales Centre (temporary commercial property). Adjacent to the east of the Site is a temporary roadway used for the construction of the new developments to the north and east of the Site which is to be developed as a permanent roadway in the future (future Greenbank Road as part of the proposed roadway realignment).

Based on SLR discussions with the Client, it is understood that the proposed future property use of the Site will be commercial and will consist of four buildings, two located at the north portion of the Site and two located at the south portions of the Site. Asphalt covered parking areas will primarily be located at the central and west portions of the Site. Based on the above, SLR infers that the applicable environmental regulations do not mandate the filing of a Record of Site Condition (RSC) with the Ontario Ministry of the Environment, Conservation and Parks (MECP).

Based on the information obtained during the 2023 SLR Phase One ESA, SLR identified two APECs which were investigated as part of this Phase Two ESA report. The two PCAs which had associated APECs and were determined to affect the Site are described below:

Area of Potential Environmental Concern (APEC)[1]	Location of Area of Potential Environmental Concern on the Site	Potentially Contaminating Activity[2]	Location of PCA (On-site or Off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
APEC 1	Site (entirety)	PCA 11 – Commercial Trucking and Container Terminals	On-site	BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg;	Soil and Groundwater

Area of Potential Environmental Concern (APEC)[1]	Location of Area of Potential Environmental Concern on the Site	Potentially Contaminating Activity[2]	Location of PCA (On-site or Off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
APEC 2	Site (entirety)	PCA 30 – Importation of Fill Material of Unknown Quality	On-site	VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); B-HWS; Hg; low or high pH;	Soil and Groundwater

1 - APECs means the area on, in or under the Site where one or more contaminants are potentially present, as determined through the 2023 SLR Phase One ESA, including through:

(a) identification of past or present uses on, in or under the Site, and

(b) identification of PCAs.

2 - PCA obtained from Column A of Table 2 of Schedule D of O. Reg. 153/04 (as amended)

3 - Using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011

- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes; PHCs: Petroleum Hydrocarbons; VOCs: Volatile Organic Compound; PAHs: Polycyclic Aromatic Hydrocarbons

- Metals (O.Reg. 153/04) including hydride forming metals As, Sb, Se: Arsenic, Antimony, Selenium;
- Cr(VI): Hexavalent Chromium; B-HWS: Boron, Hot Water Soluble; Hg: Mercury

SLR retained GeoTerre Limited to undertake the utility locates (public and private), drill rig rental (GeoTerre retained CCC Group located in Ottawa, Ontario, an MECP licensed drilling company) to undertake the drilling activities at the Site. The retained subcontractors were MECP licensed drilling companies. As part of this Phase Two ESA, CCC Group advance a total of nine (9) boreholes at the Site (denoted herein as boreholes BH22-01, BH22-04, BH22-05, BH22-06, BH22-09, BH22-10, BH22-12, BH22-13 and BH22-14) to a maximum depth of approximately 5.18 metres below ground surface (mbgs) on November 23 and 24, 2022, using a track-mounted drill rig. Boreholes BH22-01, BH22-04, BH22-12 and BH22-14 were completed as monitoring wells to facilitate groundwater monitoring and sampling. The boreholes and monitoring wells were completed at the Phase Two Property to address areas of potential environmental concern (APECs) identified in the 2023 SLR Phase One ESA report (and noted in the above table).

The soil samples were submitted for laboratory analysis of one or more of the identified contaminants of potential concern (CoPCs) in soils noted in the 2023 SLR Phase One ESA and included petroleum hydrocarbons (PHCs), benzene, ethylbenzene, toluene and xylenes (BTEX), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), laboratory pH and metals (inclusive of arsenic, antimony, hexavalent chromium, mercury, selenium and hot water soluble boron) to assess the soil quality at the Site. Groundwater samples were submitted for laboratory analysis of one or more of the identified CoPCs in groundwater noted in the 2023 SLR Phase One ESA and this Phase Two ESA (as detailed within this report) and included one or more of PHCs/BTEX, VOCs, PAHs and metals (inclusive of arsenic, antimony, hexavalent chromium, mercury and selenium) to assess the groundwater quality at the Subject Site.

The current applicable site condition standards for the Phase Two Property were determined to be the "Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition" from the MECP

document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", April 15, 2011 (herein referred to as the "MECP Table 3 Standards") for the proposed future property use of the Site (i.e., commercial) for coarse textured soils.

The soil and groundwater samples analyzed as part of this Phase Two ESA met the MECP Table 3 Standards for the parameters analyzed.

Based on the areas investigated in the Phase Two ESA, no further investigation is required for the Site at this time.

This Executive Summary is intended to be read with the remainder of the report and is subject to the Statement of Limitation described in **Section 8.0.**

2.0 Introduction

SLR Consulting (Canada) Ltd. (SLR) was retained by the Choice Properties Limited Partnership (Choice), hereinafter also referred to as the "Client", to carry out a Phase Two Environmental Site Assessment (ESA) of an undeveloped/vacant land parcel, located at 3850 Cambrian Road in Ottawa (Nepean), Ontario (hereinafter referred to as the "Site", "Phase One Property" or "Phase Two Property") and legally known as "Part of Lot 11, Concession 3 (Rideau Front) Nepean, Part 1 and Part 3 Plan 4R31049; City of Ottawa".

This Phase Two ESA report has been prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04 (last amendment: 214/21 on March 19, 2021) under Part XV.1 of the Environmental Protection Act (hereinafter referred to as "O. Reg. 153/04 (as amended)" or "the Regulation"); and Schedule E, Table 1, "Mandatory Requirements for Phase Two ESA Reports".

As specified in Schedule E, Table 1, this Phase Two ESA report has been prepared with the following section headings:

- Section 1 Executive Summary
- Section 2 Introduction
- Section 3 Background Information
- Section 4 Scope of Investigation
- Section 5 Investigation Method
- Section 6 Review and Evaluation
- Section 7 Conclusions
- Section 8 Statement of Limitations
- Section 9 References

Figures and summarized analytical result tables are provided following the text portion of this report. The conclusions presented in this report are professional opinions based on data described herein, subject to the **Statement of Limitations** provided in **Section 8.0.**

The appendices follow the general organization outlined in O.Reg.153/04, Schedule E, Table 1 including **Appendix A** (Figures), **Appendix B** (a plan of survey showing the Site and draft concept plan as of March 9, 2023), **Appendix C** (Tables), **Appendix D** (Sampling and Analysis Plan), **Appendix E** (Borehole Logs) and **Appendix F** Laboratory Certificates of Analysis).

This Phase Two ESA report provides a summary of the findings during a subsurface investigation completed on the Phase Two Property to investigate areas of potential environmental concern (APECs) on, in or under the Site as a result of potentially contaminating activities (PCAs) on the Site or on surrounding properties within the Phase One Study Area identified during the 2023 SLR Phase One ESA (dated January 31, 2023) that may have had an adverse effect on the Site. In addition, this Phase Two ESA report assesses the environmental soil and groundwater conditions on the Phase Two Property and determines the location and concentration (if any) of one or more of the contaminants of potential concern identified during the 2023 SLR Phase One ESA.

Authorization to proceed with this Phase Two ESA was awarded by Ms. Madeleine Barber (Coordinator, Planning & Development) of Choice on November 15, 2022. SLR understands that the Client requires this Phase Two ESA for their site plan application submission to The City of Ottawa as part of the proposed development of the Site.

2.1 Site Description

The Site is located on the north side of Cambrian Road, southwest of Seeley's Bay Street. Cambrian Road runs southwest to northeast. Phase Two Property information is presented in the following table:

Table 1: Phase Two Property Information

Municipal Address	Property Identification Numbers (PINs)	Approximate Total Land Area	Legal Description
3850 Cambrian Road, Ottawa, Ontario	04595-2078 and 04595-2080	1.36 hectares (3.37 acres, (13,626 m^2)	Part Of Lot 11, Concession 3 (Rideau Front) Nepean, Part 1 and Part 3 Plan 4R31049; City of Ottawa

The geographic coordinates of the Phase Two Property, ownership details and contact information of the Client (who has engaged SLR to proceed with this Phase Two ESA) are presented in the following table:

Table 2: Additional Phase Two Property Information

Information	Details/Description
Geographical References (UTM Coordinate system)	Datum: NAD 83 Zone: 18 Easting: 441,217, Northing: 5,010,847
Client	Choice Properties Limited Partnership (Choice)
Contact Name of the Client	Ms. Madeleine Barber (Coordinator, Planning & Development of Choice Properties Limited Partnership)
Contact Address of the Client	The Weston Centre, 700-22 St. Clair Avenue East, Toronto, ON M4T 2S5
Phase Two Property Owner(s)	CP REIT Ontario Properties Limited - It was reported that there are no beneficial owners to the Phase Two Property
Contact Name of the Owners	Stefania S. Sottile (Director, Environmental and Occupational Health & Safety Choice Properties Limited Partnership on behalf of CP REIT Ontario Properties Limited)
Contact Address of the Owners	The Weston Centre, 700-22 St. Clair Avenue East, Toronto, ON M4T 2S5

The Phase Two Property consisted of an undeveloped/vacant land parcel with no buildings or structures. The majority of the site was secured by a wire fence, with fencing present along the eastern property boundary and within close proximity of the western and southern property boundaries. Surface cover across the Site consisted of soil (gravel to silty sand with clay) and vegetation (grass, shrubs, common burdock, cattails and cat tail grasses). The Site had an uneven ground surface at the time of the site visit and a slope was observed at the east portion of the Site, trending north to south and sloping to the west.

The Phase Two Property is bounded to the north and west by residential properties and to the south (across Cambrian Road) by undeveloped/vacant land parcels as well as a Mattamy Homes Sales Centre (temporary commercial property). Adjacent to the east of the Site is a temporary roadway used for the

construction of the new developments to the north and east of the Site which is to be developed a permanent roadway in the future (future Greenbank Road as part of the proposed roadway realignment).

A Site Location and Surrounding Land Use plan, including a depiction of the Phase One Study Area (defined as an area, including the Site, within approximately 250 metres from the nearest boundary of the Phase Two Property), is presented as **Figure 1** in **Appendix A**.

2.2 Property Ownership

The Site is owned by CP REIT Ontario Properties Limited and consists of an undeveloped/vacant land parcel with no buildings or structures. The Director, Environmental and Occupational Health & Safety of CP REIT Ontario Properties Limited, Ms. Stefania S. Sottile and her representatives provided SLR access to the Phase Two Property for the duration of the Phase Two ESA fieldwork performed to date.

A summary of the contact representatives for the completion of the Phase Two ESA are provided in **Table 3** below.

Table 3: Project Contact Information

Company	Contact Name	Contact Address
CP REIT Ontario Properties Limited	Stefania S. Sottile (Director, Environmental and Occupational Health & Safety Choice Properties Limited Partnership on behalf of CP REIT Ontario Properties Limited)	The Weston Centre, 700-22 St. Clair Avenue East, Toronto, ON M4T 2S5
SLR Consulting (Canada) Limited	Pierre D'Angelo, P.Eng. QP_{ESA} Environmental Engineer, Project Manager	55 University Ave, Suite 501, Toronto, ON M5J 2H7
	Tim Whalen, M.A.Sc. Managing Principal, Built Environment Sector Leader	1620 West 8th Avenue, Suite 200, Vancouver, BC V6J 1V4

2.3 Current and Proposed Future Uses

The Site is currently located on the north side of Cambrian Road, southwest of Seeley's Bay Street. Cambrian Road runs southwest to northeast. The Site consists of an undeveloped/vacant land parcel with no buildings or structures. The majority of the site is secured by a wire fence, with fencing present along the eastern property boundary and within close proximity of the western and southern property boundaries. Surface cover across the Site consists of soil (gravel to silty sand with clay) and vegetation (grass, shrubs, common burdock, cattails and cat tail grasses). The Site had an uneven ground surface at the time of the site visit and a significant slope was observed at the east portion of the Site, trending north to south and sloping to the west.

Based on discussions with the Client, it is understood that the proposed future property use of the Phase Twp Property will be commercial and will consist of four (4) buildings, two located at the north portion of the Site and two located at the south portions of the Site. Asphalt covered parking areas will primarily be located at the central and west portions of the Site.

As the intended future use of the Site is not considered to be a more sensitive property use than the current property use as defined under Ontario Regulation (O.Reg.) 153/04 (last amendment: 214/21 on March 19, 2021) under Part XV.1 of the Environmental Protection Act (hereinafter referred to as "O. Reg. 153/04 (as amended)" or "the Regulation"), SLR concludes that the filing of a Record of Site Condition (RSC) with the Ontario Ministry of the Environment, Conservation and Parks (MECP) is not mandated under the Regulation.

2.4 Applicable Site Condition Standard

The analytical results (soil and groundwater) were compared to the MECP Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial/ Commercial/ Community Property Use, and for coarse textured soils. The selection of soil and groundwater standards was generally based on the following:

Table 4: Site Characteristics Used in Standard Selection

Condition	Assessment
Planned Property Use	Currently an undeveloped/vacant land and is classified as a commercial use. The proposed future property use comprises four buildings and asphalt covered parking areas as a result represents a commercial land use.
Drinking Water Supply (O.Reg 153/04 Section 35)	The Site and select surrounding properties were undeveloped with no buildings or structures and are not municipally serviced at this time. At surrounding properties where development has been completed, a municipal service connection is reportedly present. Wells were not required to supply potable water to the Site or properties within the Phase One Study Area. No potable water wells were observed on the Phase Two Property or neighbouring properties at the time of the site visit. According to the 2023 SLR Phase One ESA Report, one (1) well record for a well with no reported specific use was identified within the Phase One Study Area and located approximately 240 m to the south of the Site. In addition, one (1) water well (presumed monitoring well and not registered with the MECP) was observed at the Phase Two Property during the site visit and located at the north-central portion of the Site
Environmentally Sensitive Area (O.Reg 153/04 Section 41)	The Site is not considered to be within an environmentally sensitive area, based on the following: - The Site is not within, adjacent or include lands that are within 30 metres of area of natural significance; and, - The Site has a pH value between 5 and 9 for surface soil and between 5 and 11 for subsurface soil (greater than 1.5 metres below ground surface).
Soil Texture (O.Reg 153/04 Section 42)	Grain size analysis indicated that the subsurface materials to be medium-fine textured soils, however, for conservative purpose coarse textures soil Standards were applied.
Shallow Bedrock (O.Reg 153/04 Section 43.1)	Shallow bedrock (defined as less than two metres depth) was not encountered at the Site during the drilling program. According to the 2023 SLR Phase One ESA Report, it would be anticipated that bedrock within the Phase One Study Area would be encountered at a depth of greater than 15.70 metres below ground surface (mbgs)

Closest Waterbody (O.Reg 153/04 Section 43.1)	The Site is not located within 30 m of a water body as described in Section 43.1 of O.Reg.153/04.

3.0 Background Information

3.1 Physical Setting

Based on a review of 2023 SLR Phase One ESA, the Site had historically been used as agricultural or other property use (largely undeveloped forested land) with a cultivated field on the eastern portion of the Site from at least 1946 (based on a review of the 1946 aerial photograph) to the late 2000s. No building or structure appears to have ever been present at the Site based on available information to date. In 2008, evidence of earthworks and construction activities occurred at the Site including removal of topsoil and peat from the Site based on the 2008 aerial photograph and available historical records. The Site was prepped for commercial use during this time through grading which included the construction of a gravel roadway. As noted in the Chain of Title, previous ownership records suggest that the central and south portions and the north portion of the Site were privately owned by various individuals prior to 1989 and 2004, respectively.

3.1.1 Water Bodies, Areas of Natural Significance & Ground Water Information

No water bodies or areas of natural significance were observed on the Phase Two Property or within the Phase One Study Area.

The Site and select surrounding properties were undeveloped with no buildings or structures and are not municipally serviced. At surrounding properties where development has been completed, a municipal service connection is reportedly present. Wells were not required to supply potable water to the Site or properties within the Phase One Study Area. No potable water wells were observed on the Site or neighbouring properties at the time of the site visit. A water well (presumed monitoring well) was observed at the Site during the 2023 SLR Phase One ESA and located at the north-central portion of the Site. The well was housed in a monument casing affixed with a well tag (identification number 251203). No construction or registration details were available for this well based on a review of the Water Well Information System database within the ERIS Database Report or the MECP Well Records database. Based on observations it is considered unlikely that this observed well supplies water used for human consumption or an agricultural use and is presumed to be a monitoring well.

According to the ERIS Database Report, approximately one (1) well record for a well with no reported specific use was identified within the Phase One Study Area and located approximately 240 m to the south of the Site. Based on observations it is considered unlikely that this well supplies water used for human consumption or an agricultural use.

3.1.2 Topography and Surface Water Features

In general, the Site is located in a physiographic region consisting of Clay plains and has a gentle slope to the southwest, however, on the east portion of the Site a slope was observed to be trending north to south and sloping to the west. Regionally the Phase Two property gently sloped to the north towards the Jock River identified approximately 730 m north of the Site. According to the Plan of Survey provided by the Client, completed by Annis O'Sullivan Vollebekk Ltd. dated October 21, 2022, elevations at the Site ranged from approximately 94.63 m at the northeast portion of the Site to approximately 92.29 m at the

southwest portion of the Site as referenced to the geodetic datum derived from control monument No. 019680071 having an elevation of 99.74 metres.

No surface water features were identified within the Phase One Study Area based on the information reviewed in 2023 SLR Phase One ESA.

A depiction of topographic information is presented on the Site Location and Surrounding Land Use plan in **Figure 1**.

3.1.3 Well Head Protection Areas or Other Designations

No well-head protection areas were identified within the Phase One Study Area based on the information reviewed in 2023 SLR Phase One ESA including the City of Ottawa Official Plan.

3.1.4 Potable Water Within the Phase One Study Area

The Phase Two Property and surrounding lands included in the Phase One Study Area were undeveloped with no buildings or structures and are not municipally serviced at this time. At surrounding properties where development has been completed, a municipal service connection is reportedly present. Wells were not required to supply potable water to the Site or properties within the Phase One Study Area as previously discussed. No potable water wells were observed on the Site or neighbouring properties at the time of the site visit and are considered unlikely to be present.

Wells identified during the site visit and in the Water Well Information System database within the ERIS Database Report and the MECP Well Records database are presented on **Figure 2, 3 and 4** in **Appendix A**

3.2 Past Investigations

The following previous investigation report was reviewed as part of the Phase Two ESA:

- "Phase One Environmental Site Assessment, 3850 Cambrian Road, Ottawa, Ontario" report, prepared by SLR Consulting (Canada) Ltd. for Choice Properties Limited Partnership, dated January 31,2023 (2023 SLR Phase One ESA).

A summary of the investigations and the relevant findings to the Site are presented in the following sections. While SLR has reviewed the above noted report, only data, analysis and findings relevant to the Phase Two ESA have been reproduced here.

3.2.1 2023 SLR Phase One ESA

SLR was retained by the Choice Properties Limited Partnership (Choice) to complete a Phase One ESA of an undeveloped/vacant land parcel, located at 3850 Cambrian Road in Ottawa (Nepean), Ontario. The below summary is relevant to the Phase Two Property.

Based on the information obtained during the Phase One ESA, SLR identified two areas of potential environmental concern (APECs) which resulted from two onsite potentially contaminating activities (PCAs) associated with the Phase Two Property. The associated APECs are summarized below and, in the table, further below:

- **APEC 1** – Commercial Trucking and Container Terminals. Gravel roadways were constructed across the Site between 2008 and 2020 and subsequently removed or reworked during re-grading of the Site. In addition, the Site was used as a laydown area and an asphalt parking area was constructed and subsequently removed or buried at the south portion of the Site. A review

of air photos between 2008 and 2020 identified commercial truck movement and storage at the Site which included vehicles and heavy equipment (i.e., trucks, trailers, loaders and excavators) parking on suspected fill material. This PCA is on-site and the APEC is located across the Site.

- **APEC 2** – Importation of Fill Material of Unknown Quality. Based on the records reviewed, the Site underwent significant earthworks and construction activities between 2008 and 2020 for future commercial use including clear cutting of trees, topsoil and peat stripping, aggregate processing, segregation and piling, diversion of the West Clarke Drain watercourse and temporary roadway construction for access to the then under construction residential subdivision to the north, east and west likely using reworked and imported fill materials. A review of air photos during this time period shows various fill piles across the Site which appear to be reworked, re-piled or removed from the Site and replaced with no clear systemic approach. During the watercourse diversion, The West Clarke Drain appears to have been backfilled during grading and reworking of surface material at the Site. Material used to fill the watercourse is of unknown source and quality. Minor fill piles and other areas of debris and domestic waste were observed on Site at the time of the Site visit. This PCA is on-site and the APEC is located across the Site.

Table 5: Areas of Potential Environmental Concern (APECs)

Area of Potential Environmental Concern (APEC)[1]	Location of Area of Potential Environmental Concern on the Site	Potentially Contaminating Activity[2]	Location of PCA (On-site or Off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
APEC 1	Site (entirety)	PCA 11 – Commercial Trucking and Container Terminals	On-site	BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg;	Soil and Groundwater
APEC 2	Site (entirety)	PCA 30 – Importation of Fill Material of Unknown Quality	On-site	VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); B-HWS; Hg; low or high pH;	Soil and Groundwater

1 - APECs means the area on, in or under the Site where one or more contaminants are potentially present, as determined through the 2023 SLR Phase One ESA, including through:

(a) identification of past or present uses on, in or under the Site, and

(b) identification of PCAs.

2 - PCA obtained from Column A of Table 2 of Schedule D of O. Reg. 153/04 (as amended)

3 - Using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011

- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes; PHCs: Petroleum Hydrocarbons; VOCs: Volatile Organic Compound; PAHs: Polycyclic Aromatic Hydrocarbons

- Metals (O.Reg. 153/04) including hydride forming metals As, Sb, Se: Arsenic, Antimony, Selenium;
- Cr(VI): Hexavalent Chromium; B-HWS: Boron, Hot Water Soluble; Hg: Mercury

The location of the PCAs are shown on **Figure 3** in **Appendix A** and the location of the APECs are shown on **Figure 4** in **Appendix A.**

To further evaluate the possible subsurface impacts which may exist from these APECs a subsurface investigation (Phase Two ESA) would need to be completed at the Site. In addition, as the intended future use of the Site is not considered to be a more sensitive property use than the current property use as defined under Ontario Regulation (O.Reg.) 153/04 (last amendment: 214/21 on March 19, 2021) under Part XV.1 of the Environmental Protection Act (hereinafter referred to as "O. Reg. 153/04 (as amended)" or "the Regulation"), the filing of a Record of Site Condition (RSC) with the Ontario Ministry of the Environment, Conservation and Parks (MECP) is not mandated under the Regulation for the Phase Two Property.

4.0 Scope of the Investigation

4.1 Overview of Site Investigation

The Phase Two ESA investigation was designed to investigate the APECs identified in the 2023 Phase One ESA completed by SLR (summarized in **Section 3.2** above).

The scope of work for the Phase Two ESA included:

- Develop a site-specific Health and Safety plan;
- Complete site utility clearances prior to intrusive activities;
- Advancement of nine (9) boreholes on the Phase Two Property with four (4) completed as groundwater monitoring wells to a maximum depth of 5.2 mbgs;
- Incorporate the elevation survey of the boreholes referenced to a geodetic benchmark, using laser level;
- Collection of drill cuttings and purged groundwater generated as part of the Phase Two ESA activities; and,
- Preparation of a Phase Two ESA Report in general accordance with O.Reg.153/04, as amended.

The specific details of the Phase Two ESA investigation are provided in the following subsections, as required by O.Reg.153/04, as amended. As no filing of an RSC with the MECP is mandated, this report was not divided into the exact report sections as specified in Table 1 of Schedule E of O. Reg. 153/04 (as amended).

4.2 Media Investigated

The Phase One ESA identified APECs and contaminants of potential concern (COPCs) associated with soil and groundwater within the Phase Two Property, which were both investigated as part of the Phase Two ESA. Sediment and surface water as defined by O.Reg.153/04 were not present on the Phase Two ESA Property, therefore, were not investigated.

The rationale for the selection of the sampling locations during this investigation is included in **Table A** in **Appendix C** and in the Sampling and Analysis Rationale Plan in **Appendix D**.

4.3 Phase One Conceptual Site Model

The Phase One Conceptual Site Model (CSM) provides a summary of the Site including site features, geology/hydrogeology, PCAs and associated APECs, COPCs and potential exposure and migration pathways. A summary of the Phase One CSM is outlined in the below table, followed by the supporting description.

Table 6: Phase One Conceptual Site Model Figures

Feature	Location
Existing buildings and structures Waterbodies located in whole or part within the Phase One Study Area	None identified, see Figure 1 and 2
Any areas of natural significance located in whole or in part on the Phase One Study Area,	None identified, see Figure 1 and 2
Drinking water wells at the Site,	None identified, see Figure 1 and 2
Show roads, including names, within the Phase One Study Area	**Figure 1**
Show uses of surrounding properties	**Figure 1**
Locations of PCAs Locations of APECs	**Figure 3** **Figure 4, 5, 7 and 8**

The Phase One CSM is further described below.

4.3.1 Potentially Contaminating Activities Potentially Affecting the Site

Based on the results of the 2023 SLR Phase One ESA, two potentially contaminating activities (PCAs) identified in the Phase One Study Area (both identified on the Site) would contribute to an APEC on the Phase Two Property. The PCAs which are considered to contribute to APECs on, in or under the Phase Two Property, the rationale and contaminants of potential concern are summarized in the table below:

Table 7: PCAs affecting the Site and Contaminants of Potential Concern

Location of Area of Potential Environmental Concern on the Site and Rationale	Potentially Contaminating Activity[1]	Contaminants of Potential Concern[2]	Media Potentially Impacted (Ground water, soil and/or sediment)
Gravel roadways were constructed across the Site between 2008 and 2020 and subsequently removed or reworked during re-grading of the Site. In addition, the Site was used as a laydown area and an asphalt parking area was constructed and subsequently removed or buried at the south portion of the Site. A review of air photos between 2008 and 2020 identified commercial truck movement and storage at the Site which included vehicles and heavy equipment (i.e., trucks, trailers, loaders and excavators) parking on suspected fill material. This PCA is on-site and the APEC is located across the Site.	PCA 11 – Commercial Trucking and Container Terminals	BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg;	Soil and Groundwater
Based on our records review the Site underwent earthworks and construction activities between 2008 and 2020 for future commercial use including clear cutting of trees, topsoil and peat stripping, aggregate processing, segregation and piling, diversion of the West Clarke Drain watercourse and temporary roadway construction for access to the then under construction residential subdivision to the north, east and west likely using reworked and imported fill materials. A review of air photos during this time period shows various fill piles across the Site which appear to be reworked, re-piled or removed from the Site and replaced with no clear systemic approach. During the watercourse diversion, The West Clarke Drain appears to have been backfilled during grading and reworking of surface material at the Site. Material used to fill the watercourse is of unknown source and quality. Minor fill piles and other areas of debris and domestic waste were observed on Site at the time of the Site visit. This PCA is on-site and the APEC is located across the Site.	PCA 30 – Importation of Fill Material of Unknown Quality	VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); B-HWS; Hg; low or high pH;	Soil and Groundwater

1 - PCA obtained from Column A of Table 2 of Schedule D of O. Reg. 153/04 (as amended)

2 - Using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011

- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes; PHCs: Petroleum Hydrocarbons; PAHs: Polycyclic Aromatic Hydrocarbons

- As, Sb, Se: Arsenic, Antimony, Selenium; Cr(VI): Hexavalent Chromium; B-HWS: Boron, Hot Water Soluble; Hg: Mercury

The location of the PCAs that contribute to APECs on the Site are shown on **Figure 3** and **Figure 4** in **Appendix A**. The location of the APECs and the corresponding contaminants of potential concern are shown on **Figure 4** in **Appendix A.**

Two additional PCAs were evaluated based on their potential to result in subsurface impacts on the Phase Two Property (i.e., distance from the site, size of the PCA, groundwater flow direction etc.). The following PCAs have been evaluated and do not result in on-site APEC:

- **PCA 30** – Importation of Fill Material of Unknown Quality, offsite. The presence of imported fill of unknown quality at the surrounding properties to the north, east, south and west is unlikely to contribute to an APEC on the Site based on the distances from the Site and redevelopment that has occurred on these surrounding properties.
- **PCA 55** – Transformer Manufacturing, Processing and Use. offsite. A concrete pad-mounted transformer was observed to the west of the Site at the time of the site visit and was located on the adjacent property to the west of the Site along the boulevard of Aphelion Crescent. No oil staining was observed on the concrete pad associated with this transformer at the time of the site visit and no spills were reported in the records review. Based on the above information and distance from the Site the PCA associated with this transformer would not contribute to an APEC on the Site.

The PCAs and APECs are presented in **Figures 3 and 4,** respectively. In addition, the corresponding boreholes and monitoring wells completed at the Phase Two Property as part of this Phase Two ESA investigation to address the above APECs are shown in **Figures 5, 7 and 8** along with the APECs.

4.3.2 Water Bodies, Areas of Natural Significance & Ground Water Information

No water bodies or areas of natural significance were observed on the Site or within the Phase One Study Area.

The Site and select surrounding properties were undeveloped with no buildings or structures and are not municipally serviced at this time. At surrounding properties where development has been completed, a municipal service connection is reportedly present. Wells were not required to supply potable water to the Site or properties within the Phase One Study Area. No potable water wells were observed on the Site or neighbouring properties at the time of the site visit. A water well (presumed monitoring well) was observed at the Site during the site visit at the north-central portion of the Site. The well was housed in a monument casing affixed with a well tag (identification number 251203). No construction or registration details were available for this well based on a review of the Water Well Information System database within the ERIS Database Report or the MECP Well Records database. Based on observations it is considered unlikely that this observed well supplies water used for human consumption or an agricultural use.

No well-head protection areas were identified within the Phase One Study Area based on the information reviewed including the City of Ottawa Official Plan.

4.3.3 Underground Utilities and Contaminant Distribution and Transport

There are no underground utilities on the Site with the exception of a storm drain and sanitary manhole located at the south-central portion of the Site which traverse further south and off-site. Both were raised above the surface grade at the time of the site visit. Based on the information above the potential for the underground utilities to affect contaminant distribution and transport is considered unlikely at this time.

4.3.4 Geological and Hydrological Information

In general, the Site has a gentle slope to the southwest, however, on the east portion of the Site a slope was observed to be trending north to south and sloping to the west. Regionally the Phase One Study Area, gently sloped to the north towards the Jock River identified approximately 730 m north of the Site. According to the Plan of Survey provided by the Client, completed by Annis O'Sullivan Vollebekk Ltd. dated October 21, 2022, elevations at the Site ranged from approximately 94.63 m at the northeast portion of the Site to approximately 92.29 m at the southwest portion of the Site.

The Site is located in a physiographic region consisting of Clay plains. Surficial soils at the northeast portion of the Site consisted of offshore marine deposits (comprised of clay, silty clay and silt with minor sand). The remaining portion of the Site comprised of organic deposits (peat, muck, fens, swamps). The regional bedrock geology is of the Beekmantown Group from the Ordovician period characterized by dolostone and sandstone.

Available well records within the Phase One Study Area, did not include details regarding stratigraphy, depth to bedrock or depth to the approximate water table. Based on a review of borehole logs for boreholes completed in the Phase One Study Area and Half Moon Bay area, provided within the 2021 Paterson Geotechnical Investigation report, subsurface material encountered generally consisted of silty sand to approximately 4.5 mbgs followed by silty clay until the maximum termination depth of 14.78 mbgs on the Site and a depth of 21.95 mbgs within a borehole located approximately 550 m to the west of the Site. A borehole located immediately adjacent to the southeast of the Site had silty clay which extended to a maximum depth of 15.70 mbgs. Bedrock was not encountered in any of these boreholes nor was it identified in any of the other boreholes investigated within the Half Moon Bay area as part of the 2021 Paterson Geotechnical Investigation. Based on the above it would be anticipated that bedrock within the Phase One Study Area would be encountered at a minimum depth below 15.70 mbgs.

Based on a review of the 2021 Paterson Geotechnical Investigation report, the groundwater level in a monitoring well located at the southwest portion of the Site was measured at 4.43 m on April 9, 2008 and measured to be 350 mm above grade in the monitoring well located at the northeast portion of the Site on February 5, 2007. These wells appear to have been removed from the Site.

The nearest water body is the Jock River which is located approximately 730 m north of the Site. The Jock River flows east before discharging into the Rideau River. Based on the above, the regional groundwater is inferred to flow north towards the Jock River.

4.3.5 Uncertainty

There were no deviations from the scope of work or limitations that would alter the conclusions of the work performed. Groundwater flow on December 6, 2022, was interpreted to the east (not north as originally inferred). During the 2023 SLR Phase One ESA, determination of groundwater flow direction was based a review of topographical and hydrological features at the Site or within the Phase One Study Area. Foundations, buried utilities/services, subsurface drainage (including septic) systems and zones of local, natural high permeability soils (sand seams/lenses and fissures), fractured bedrock and zones of buried rubble (concrete and building stone, metal) may significantly alter groundwater movement. It is expected that groundwater levels would seasonally fluctuate, and groundwater levels may be different, if monitored at different points in time. Based on site observation and information to date, the change in flow direction would alter the conclusions of the work performed.

SLR relied on information obtained from records obtained from Federal, Provincial, and Municipal databases provided by ERIS in preparing the 2023 SLR Phase One ESA. While the Qualified Person

reviewed and assessed these records, the conclusions made from the findings are subject to the accuracy of the records reviewed as presented within the ERIS database report.

SLR made commercially reasonable attempts to obtain the accessible information required under O.Reg.153/04 (as amended) and the 2023 SLR Phase One ESA report presents the logic and reasoning used by the Qualified Person to evaluate the information presented in the 2023 SLR Phase One ESA report which was available at the time of this investigation.

No areas of uncertainty were identified in the Phase One ESA; however, a Phase Two ESA was recommended to investigate the APECs identified and further characterize the Site.

It is noted that the measured groundwater levels were above the screened interval in two of the four monitoring well locations (BH22-01 and BH22-12) at the time when groundwater samples were collected for PHC analysis as detailed in **Table A in Appendix C**. However, it should noted that BTEX and PHCs were determined to be contaminants of potential concern due to PCAs identified on the Phase Two Property and all soil samples collected from surface and subsurface locations for BTEX and PHC F1 to F4 analyses met the MECP Table 3 Standards. In addition, it should be noted that all the monitoring wells were located within the associated APECs and that two monitoring wells (BH22-04 and BH22-14) were noted with groundwater levels within the screened interval, and the soil and groundwater samples collected for BTEX and PHC F1 to F4 analyses from these monitoring wells met the MECP Table 3 Standards. There was no evidence of light/dense non-aqueous phase liquids (LNAPLs/DNAPLs), visible petroleum hydrocarbon film or sheen, or odours identified based on the groundwater monitoring completed on the Phase Two Property, in the recovered groundwater samples or during groundwater development. Furthermore, groundwater sampling was conducted by drawing down the groundwater levels to within the screened interval of the corresponding monitoring wells prior to sampling. Based on our site observations and the laboratory analytical results of soil and groundwater, it is SLR's opinion that the laboratory results for BTEX and PHCs are considered representative of the groundwater conditions at the Phase Two Property and that these contaminants of potential concern and the associated APECs have been adequately assessed as part of the Phase Two ESA and does not represent a concern.

4.4 Deviations from Sampling and Analysis Plan

The field investigation and sampling program was carried out following the requirements of the Site Sampling and Analysis Plan included in **Appendix D.** There were no deviations from the Sampling and Analysis Plan that alter the conclusions and recommendations of the Phase Two ESA report.

4.5 Impediments

No impediments were encountered during the field investigation. The Site was accessible at the time of the investigation.

5.0 Investigation Method

5.1 General

This section provides a brief description of the methods utilized during the progress of the Phase Two ESA. Where the method differed from the associated standard operations procedure, a detailed description of the method used and rationale for the change in the methodology is provided in the appropriate subsection below. The completed drilling locations are provided on **Figure 2 in Appendix A**.

5.2 Drilling and Excavating

Public and private locate clearances were obtained prior to initiating intrusive activities. The clearance forms were retained on site for the duration of all drilling activities.

The drilling activities for the Phase Two ESA were completed on November 23 and 24, 2022. A summary of the drilling activities is provided below.

SLR retained GeoTerre Limited located in Brampton, Ontario to undertake the utility locates (public and private), drill rig rental, drilling supervision, drilling 9 boreholes at the Site and monitoring well installation. GeoTerre retained CCC Group located in Ottawa, Ontario to undertake the drilling activities at the Site. The retained subcontractors were MECP licensed drilling companies. The drilling activities are summarized below.

CCC Group completed drilling activities at the Site on November 23 and 24, 2022 utilizing a track mounted drill rigs. The drilling was completed under the direction of GeoTerre and SLR to assess the subsurface for geotechnical and environmental purposes. A CME850 drill rig was used to complete boreholes BH22-01, BH22-04, BH22-05, BH22-06, BH22-09, BH22-10, BH22-12, BH22-13, and BH22-14. The boreholes were drilled with hollow stem augers. Soil sampling were generally completed utilizing standard 0.6 m long split spoons at 0.61 m to 0.76 m intervals. SLR observed the subsurface drilling at the above locations for environmental purposes only to a maximum depth of 5.2 mbgs.

To minimize potential cross-contamination during the drilling activities described above, the augers and associated downhole equipment arrived to the Site precleaned. Reused downhole equipment (such as lead auger heads and/or split spoon samplers) were rinsed with potable water and non-phosphate detergent, scrubbed free of soil and then rinsed with potable water between sampling intervals.

No excavating was completed at the Site as part of the Phase Two ESA.

The corresponding boreholes and monitoring wells completed at the Site as part of the Phase Two ESA investigation to address the APECs are presented in **Table 8** below and on **Figure 5 in Appendix A.**

Table 8: Investigation Locations and Associated APECs

Area of Potential Environmental Concern (APEC)[1]	Location of Area of Potential Environmental Concern on the Site	Potentially Contaminating Activity[2]	Location of PCA (On-site or Off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)	Corresponding Borehole/ Monitoring Well Addressing the Associated APEC
APEC 1	Site (entirety)	PCA 11 – Commercial Trucking and Container Terminals	On-site	BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg;	Soil and Groundwater	BH22-01, BH22-04, BH22-05, BH22-06, BH22-09, BH22-10, BH22-12, BH22-13, and BH22-14
APEC 2	Site (entirety)	PCA 30 – Importation of Fill Material of Unknown Quality	On-site	VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); B-HWS; Hg; low or high pH;	Soil and Groundwater	BH22-01, BH22-04, BH22-05, BH22-06, BH22-09, BH22-10, BH22-12, BH22-13, and BH22-14

1 - APECs means the area on, in or under the Site where one or more contaminants are potentially present, as determined through the 2023 SLR Phase One ESA, including through:

(a) identification of past or present uses on, in or under the Site, and

(b) identification of PCAs.

2 - PCA obtained from Column A of Table 2 of Schedule D of O. Reg. 153/04 (as amended)

3 - Using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011

- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes; PHCs: Petroleum Hydrocarbons; VOCs: Volatile Organic Compound; PAHs: Polycyclic Aromatic Hydrocarbons

- Metals (O.Reg. 153/04) including hydride forming metals As, Sb, Se: Arsenic, Antimony, Selenium;
- Cr(VI): Hexavalent Chromium; B-HWS: Boron, Hot Water Soluble; Hg: Mercury

5.3 Soil: Sampling

Soil conditions were logged during the drilling of the boreholes/monitoring wells and samples were collected at regular intervals at 0.61 m to 0.76 m using split spoon sampling equipment (approximately 0.61 m in length).

To avoid potential cross contamination, a new pair of nitrile gloves were used as each soil sample was collected. SLR examined the retrieved split spoons and sampling tubes and recorded soil stratigraphy,

moisture content, colour, appearance, and olfactory evidence or signs of impact and general soil properties in general accordance with the Unified Soil Classification System. Collected soil samples were placed in appropriate laboratory-supplied, clean sample jars and labelled with the project name, number, date, sample location, identification, and depth of sample. The soil samples were placed in ice-filled insulated coolers and shipped to the Canadian Association for Laboratory Accreditation (CALA) accredited laboratory (Bureau Veritas Laboratories (BVL)) under Chain-of-Custody (COC) documentation. Soil samples were submitted for analysis of one or more of VOCs; BTEX; PHCs; PAHs; laboratory pH, metals (including copper, lead and zinc, As, Sb, Se; Cr(VI); B-HWS; and Hg) parameters.

Soil stratigraphy observed during the borehole investigations is discussed in **Section 6.1** below and are included on the borehole logs in **Appendix E**.

5.4 Field Screening Measurements

Soil vapour readings were also recorded using a RKI Eagle II combustible gas and photoionization detector (PID) (which was calibrated with 400 parts per million (ppm), hexane and 100 parts per million (ppm) isobutylene) to detect potential organic vapours present in the collected soil samples. The RKI Eagle II PID has a detection limit of 10,000 ppm and an accuracy of +/- 2 ppm when calibrated with isobutylene. The PID was calibrated once a day before the screening of any samples. Collected soil was divided into two portions; one for field vapour screening that was placed into a re-sealable Ziploc® bag and warmed to room temperature before collecting PID readings; and the other was immediately placed in the appropriate laboratory-supplied sample containers. Relative organic vapour concentrations (headspace readings) were measured for each sample using the PID. The headspace readings, in conjunction with visual and olfactory observations and professional judgement were used to select soil samples for laboratory submission.

5.5 Ground Water: Monitoring Well Installation

As discussed in **Section 5.2**, the boreholes and corresponding monitoring well installations were completed by CCC Group during the Phase Two ESA drilling activities. A total of four (4) monitoring wells (BH22-1, BH22-4, BH22-12, and BH22-14) were installed in the boreholes completed November 23 and 24, 2022 within the Phase Two Property.

Each well was constructed using 50 mm diameter schedule 40 PVC risers and 3.05 m long flush threaded No. 10 machine slotted well screen. A filter pack consisting of No. 2 silica sand was placed in the annular space surrounding the well screen to approximately 0.3 m above the top of the screened interval. Bentonite hole plug chips were then placed just above each sand pack until approximately 0.15 mbgs and a protective monument casing was cemented in place.

Prior to groundwater sampling, SLR completed well development at each monitoring well using a Waterra tubing an inertial foot valve. A dedicated length of low-density polyethylene tubing was placed within each monitoring well and fixed with both a foot valve and surge block. Well volumes were calculated based on the well completion details, static water level, and end of hole. A minimum of three well volumes were purged from each monitoring well up to a maximum of four well volumes.

The monitoring well construction details of the completed monitoring wells are shown on the field boring logs in **Appendix E** and **Table B** in **Appendix C**.

5.6 Ground Water: Field Measurement of Water Quality Parameters

SLR measured each monitoring well for the presence of light non-aqueous liquid (LNAPL) and measured the depth to groundwater. Measurements for LNAPL and water levels were completed using a Heron interface probe. Prior to monitoring, the interface probe was assessed for proper operation and cleaned with both an Alconox™ solution and deionized water between locations to prevent cross-contamination.

Following well development and monitoring for the potential presence of LNAPL, SLR completed well purging to remove 'stagnant' water from within the well bore and surrounding annulus and obtained representative groundwater samples from the formation. To accomplish this, a peristaltic pump with low density polyethylene (LDPE) tubing (affixed using silicon tubing) paired with a water quality meter (Horiba-U52) and flow cell were used to extract the water and collect geochemical measurements. Geochemical stabilization parameters (temperature, pH, conductivity, dissolved oxygen [DO], and turbidity) of the purged water was monitored for stabilization before collecting a water sample representative of the formation water. The pump intake was placed in the centre of the saturated screen interval and low-flow sampling procedures were followed. The flow rate of the pump was adjusted based on the hydraulic performance of each well to achieve a minimal, stabilized drawdown at a constant flow rate of 0.5 litre/minute or less. A Horiba U-52 multimeter with flow through cell was used to gauge geochemical parameters and the readings were taken at a minimum of three-minute intervals to assess and document that low-flow sampling procedures were being followed. Stabilization was achieved after all parameters had stabilized for three consecutive readings and were within the established stabilization criteria (**Table 9**).

Table 9: SLR Low Flow Groundwater Stabilization Criteria

Parameter	Range
pH:	± 0.2 units
Temperature:	± 0.2 °C
Electrical Conductivity (EC):	± 5%
Dissolved Oxygen (DO):	± 0.2 mg/L
Turbidity:	± 10% and less than 50 NTU
ORP/Redox:	± 20 mV

5.7 Ground Water: Sampling

The stabilized groundwater was collected and placed into laboratory prepared sample containers with the appropriate preservatives added. Samples for metals analysis were field filtered using a Waterra 0.45-micron inline disposable filter prior to placement within the container. The containerized samples were placed in ice filled insulated coolers and submitted to BVL under a Chain of Custody (COC). Groundwater samples were submitted for analysis of VOCs; BTEX; PHCs; PAHs, metals (including copper, lead and zinc, As, Sb, Se; Cr(VI); and Hg) parameters.

Groundwater samples were collected from a total of four monitoring well locations following well purging and obtaining three stabilized reading for field parameters as discussed in **Section 5.6**. Samples were collected on December 6, 2022.

The pump intake was lowered slowly into the water column to minimize mixing of groundwater and the intake was positioned in the centre of the saturated screen interval (based on the depth to well bottom measurements conducted prior to purging).

Each monitoring well had dedicated tubing to ensure that cross contamination of samples did not occur. After sampling at each well was complete, the equipment was cleaned and decontaminated prior to use at the next location.

For sample collection, groundwater was transferred from the polyethylene tubing into clean, laboratory prepared sample containers with the appropriate preservative added. A clean pair of disposable nitrile gloves was worn during sample collection and a new pair of gloves was used at each sample location. For metals samples, a Waterra inline filter was used to field filter the groundwater sample prior to collection. Upon collection, all sample containers were placed in ice filled insulated coolers and submitted to BVL under a COC.

5.8 Sediment: Sampling

The Phase Two Property does not contain a water body as defined under O.Reg.153/04; therefore, no sediment samples were collected or analyzed.

5.9 Analytical Testing

SLR retained the services of BVL in Ottawa, Ontario to complete all soil and groundwater analysis for this project. BVL is accredited by the CALA and is compliant with the analytical requirements for investigations of this nature.

5.10 Residue Management Procedures

Soil cuttings generated during drilling, water from well development and purging, as well as fluids from equipment cleaning were containerized within sealed drums. One soil sample was collected from the composite soil cuttings and submitted for waste characterization analysis by toxicity characterization leachate procedure (TCLP). The TCLP analysis was completed per Regulation 347 (as amended per O.Reg. 558/00 Schedule 4) for analysis of metals and inorganics and VOCs. The results identified the tested material is within the Schedule 4 values and as such can be classified as non-hazardous soils. The laboratory analytical certificates detailing results of the TCLP sample (TCLP-001) are included in **Appendix F.**

The drums were maintained at the Site for subsequent removal and appropriate off-site disposal.

5.11 Elevation Surveying

SLR completed a vertical and horizontal elevation survey of the for the borehole and monitoring well locations. Elevations relative to geodetic site datum (northeast corner of sanitary manhole cover located at the southeast portion of the Site) having an elevation of 93.550 metres above Site datum as provided in the Plan of Survey completed by Annis O'Sullivan Vollebekk Ltd. dated October 21, 2022.

The horizontal control was recorded using the satellite coordinates with a handheld global positioning system (GPS). Elevations were measured relative to a geodetic datum.

5.12 Quality Assurance and Quality Control Measures

5.12.1 Overview

A QA/QC program was followed to assess and document that the sampling and analytical data were interpretable, meaningful, and reproducible. Two stages of QA/QC were completed, with one stage completed by the laboratory and the other as part of the standard field procedures conducted by SLR.

Field procedures were implemented to minimize the potential for cross contamination between sampling locations and intervals. Sample handling protocols were established to track and maintain the integrity of the samples. Disposable nitrile gloves were used and changed between sampling intervals. COC laboratory provided forms were completed for samples selected for submission to the laboratories (BVL). Samples were shipped for analyses within the recommended time requirements and COC forms accompanied each sample shipment.

BVL followed required QA/QC procedures including method blanks, control standards samples, certified reference material standards, method spikes, replicates, duplicates, and instrument blanks.

5.12.2 Field Duplicate Samples

Field duplicates were collected for both soil and groundwater samples. Field duplicates consist of collecting a second sample at the same time and location in separate containers. Field duplicates evaluate analytical precision, field precision and sample homogeneity. A total of four soil sample duplicates, and one groundwater sample duplicate were collected for QA/QC purposes.

Based on the results of the duplicate analysis, the relative percent difference (RPD) is calculated as a measure of QA/QC. RPD is defined as the difference between the duplicate results divided by the mean of the results, expressed as a percentage. Analytical error increases near the method detection limit (MDL); therefore, the RPD is not normally calculated unless the concentrations of both the original and duplicate samples are greater than 5 times the MDL. If the RPD for a sample and its duplicate do not meet the RPD standards for the parameters analyzed, an explanation is provided to qualify the difference in values.

5.12.3 Trip Blanks

Trip blanks were obtained during the groundwater sampling event for volatile compounds. A groundwater trip blank is a set of VOC sample vials filled by the analytical laboratory with VOC-free distilled water and shipped with the groundwater sample bottles. Trip blanks remained with the sample containers provided by the laboratory from the time the sample containers were picked up from the laboratory until they were returned to the laboratory. The sample containers comprising a trip blank remained unopened in the field and were opened by laboratory personnel once all samples have been submitted.

5.12.4 Non-Dedicated Sampling and Monitoring Equipment Cleaning

Non dedicated sampling equipment including a water quality meter (Horiba U-52 including the flow through cell), and water level tape were decontaminated between each sample collection by rinsing with a mixture of Alconox and water, followed by rinsing with deionized water. Dedicated or disposable equipment included nitrile gloves, tubing, and foot valves were used for the sample collection.

5.12.5 Calibration Checks on Field Instruments

Field instruments used during the program included an RKI Eagle II combustible gas and PID and water quality meter (Horiba U-52 brand). Soil vapour readings were measured using RKI Eagle II PID and calibrated with 400 parts per million (ppm), hexane and 100 parts per million (ppm) isobutylene. The water quality meters (Horiba brand) and the RKI Eagle II combustible gas and PID were provided by a field equipment rental company (Pine) who calibrated the instrument in advance and provided calibration certificates. Field screening results are included on the borehole logs in **Appendix E**.

6.0 Review and Evaluation

6.1 Geology

The Site is located in a physiographic region consisting of Clay plains. Surficial soils at the northeast portion of the Site consisted of offshore marine deposits (comprised of clay, silty clay and silt with minor sand). The remaining portion of the Site comprised of organic deposits (peat, muck, fens, swamps). The regional bedrock geology is of the Beekmantown Group from the Ordovician period characterized by dolostone and sandstone.

Based on a review of borehole logs for boreholes completed within the Phase Two Property, subsurface material encountered generally consisted of silt or sand to approximately 1.5 mbgs followed by sandy silt and after that, clay until the maximum termination depth of 6 mbgs. A borehole located at the southwest of the Site had clay which extended to a maximum termination depth of 6 mbgs. Bedrock was not encountered in any of these boreholes nor was it identified in any of the other boreholes investigated within the Half Moon Bay area as part of the 2021 Paterson Geotechnical Investigation. Based on the above it would be anticipated that bedrock within the Phase Two property and the vicinity of it would be encountered at a minimum depth below 15.70 mbgs.

Based on the soil samples recovered during the Phase Two ESA, the soil stratigraphy observed at the Site was described as fill (described as topsoil, sand, sandy silt, silt or silty clay with thicknesses ranging from 0.61 m to 2.29 m) underlain by sandy silt to a maximum borehole depth of 2.74 mbgs (BH22-10) followed by silty clay to a maximum borehole termination depth of 5.18 mbgs (or an elevation of 87.28 m) in borehole BH22-05. Peat was identified at the central and west portions of the Site in boreholes BH22-01, BH22-06, BH22-09 and BH22-12 with a maximum thickness of 0.3 m and at a maximum depth of 0.9 mbgs. Potentially deleterious fill material (brick pieces, concrete and wood debris) were observed in boreholes BH22-13 and BH22-14, however, soil samples collected from this material met the MECP Table 3 Standards. The soil stratigraphy to the maximum boring termination depth in the borehole/monitoring wells completed at the Phase Two Property were interpreted to represent an unconfined aquifer. No other aquifers or aquitards were encountered during the drilling of the boreholes/monitoring wells as part of this Phase Two ESA.

Bedrock was not encountered in the borehole locations investigated up to the maximum boring termination depth of 5.2 mbgs. As noted above, bedrock in the vicinity of the Phase Two Property is anticipated at a minimum depth of approximately 15.7 mbgs. As such, the Phase Two Property is not a "shallow soil property" as defined in O. Reg. 153/04.

A detailed description of the soil conditions encountered are presented on the field boring logs in **Appendix E**. In brief, there was no staining and/or olfactory evidence of solvent or petroleum hydrocarbon impacts detected in the soil samples recovered from the boreholes.

The Phase Two ESA identified the surficial aquifer located within a predominantly silty clay geological unit on the Site. The thickness of the geological unit containing the surficial aquifer was noted to be up to approximately 3.8 m thick (elevation from 91.11 to 87.33 m) on the Site (BH22-01). There was no underlying aquitard identified in the Phase Two ESA investigation. SLR notes that no other aquifers or aquitards were encountered in this Phase Two ESA and deeper stratigraphy or aquifers at the Site were not investigated since no contamination above the current appliable MECP Standards (MECP Table 3 Standards) for the parameters sampled were identified on the Site at this time. The above noted aquifer was assessed by SLR as the shallow groundwater table was encountered within this aquifer. As no contamination was identified in the submitted soil samples from this aquifer and the concentrations of contaminants in the submitted groundwater samples were also noted to be below the applicable MECP Table 3 Standards, the potential for other aquifers to be impacted from the identified PCAs appears to be low at this time. Furthermore, the presence of silty clay in this geological unit would retain contaminants in the shallow geological unit (if contamination was identified).

Based on a review of borehole logs, the groundwater level in a monitoring well located on Site was ranged from 0.19 mbgs at BH22-01 to 2.40 mbgs at BH22-14 on December 6, 2022.

The soil stratigraphy, depths of the soil sampling locations, groundwater elevation on December 6, 2022, and the monitoring well construction details (including depths of the monitoring well screens) are shown in the borehole logs in **Appendix E** and **Table B in Appendix C**.

6.2 Ground Water: Elevations, Flow Direction and Gradients

A total of four (4) monitoring wells were included in the Phase Two ESA and used to assess groundwater elevations. The groundwater monitoring wells were constructed with the screens placed near the base of the fill contact within the water table to assess the groundwater conditions and quality and offer vertical delineation of potential impacts. One round of groundwater monitoring was completed following well development at the Phase Two Property and the groundwater elevations within the unconfined aquifer ranged from 91.65 metres above Site Datum (at BH22-04) to 92.31 metres above Site Datum (BH22-01) on December 6, 2022. The groundwater elevation and interpreted water table elevation for the Phase Two Property has been interpreted to be towards the east, as presented on **Figure 6** and is not consistent with regional groundwater flow in the area which had been interpreted to be towards the north in the 2023 SLR Phase One ESA. No sheen or LNAPL was detected in any of the monitoring events at the monitoring well locations. Groundwater Level Measurements can be found in **Table B** following the text.

Based on Site topography the water table is typically encountered at 0.19 mbgs at BH22-01 to 2.40 mbgs at BH22-14 and generally observed within the silty clay.

Since there was no groundwater contamination above the current MECP Standards, horizontal and vertical hydraulic gradients were not determined for the unconfined aquifer as part of the Phase Two ESA. No nested monitoring wells were installed at the Phase Two Property as part of the Phase Two ESA.

6.3 Coarse Soil Texture

A total of 3 soil samples were collected from three different borehole locations and analyzed by BVL for grain size analysis. The laboratory analytical certificates are included in **Appendix F.** While the results of the grain size analysis indicated medium-fine textured soils at the Site, coarse textured soil classification were conservatively used for comparison purposes.

For the purposes of this Phase Two ESA, we have selected the coarse textured soil classification for determining suitable Site Condition Standards (SCS) as per O.Reg.153/04.

6.4 Soil: Field Screening

The depths of the soil samples that were selected for analytical testing were considered "worst-case" soil samples and were selected based on professional judgement which included consideration of the depth at which potential impact would most likely have occurred, the expected location of the local groundwater table, results of soil vapour readings, and visual and/or olfactory conditions (i.e. staining and/or odours and/or the presence of debris and approximate location of inferred fill materials), if any, that were encountered at each borehole location. The locations of the submitted soil samples were defined by the APECs noted in the 2023 SLR Phase One ESA report and the Phase Two ESA (see **Figure 5** Investigation Locations and APECs in **Appendix A**) and in accordance with the Sampling and Analysis Plan (**Appendix D**).

In brief, there was no staining and/or olfactory evidence of solvent or petroleum hydrocarbon impacts detected in the soil samples recovered from the nine (9) borehole locations advanced at the Phase Two Property.

Soils were screened in the field for soil vapour headspace using a RKI Eagle II as described in **Section 5.4**. Soil screening results ranged from 0 ppm to 125 ppm. The highest RKI Eagle II measurement was recorded at BH22-10 from a depth of 1 to 1.5 mbgs.

Soil screening results are summarized on the borehole logs provided in **Appendix E**.

6.5 Soil Quality

Soil samples were collected on November 23 and 24, 2022 and submitted for laboratory analysis of VOCs; BTEX; PHCs; PAHs; laboratory pH and metals (including copper, lead and zinc, As, Sb, Se; Cr(VI); B-HWS; and Hg) parameters as per **Table A** in **Appendix C**. The laboratory analyses were compared to the MECP Table 3 Standards for coarse textured soils. The summarized soil results and maximum soil concentrations are presented in **Table E1.** The laboratory analytical certificates are included in **Appendix F.**

Analytical results indicated that all the samples had concentrations either below the MECP Table 3 Standards or were below the reportable laboratory detection limit for the parameters analyzed as shown in Tables **C1 to C4** in **Appendix C and on Figure 7 in Appendix A**.

SLR notes that low and high pH was determined as a contaminant of potential concern. A total of 22 soil samples (9 from surface and 13 from subsurface soils) were submitted for laboratory analysis of pH. A review of the pH results did not identify low or raised pH levels in the submitted soil samples at this time. The results of the pH analyses are presented in Table C4 in **Appendix C**. Results of the pH analyses also indicated surface soil conditions have pH within a range of 5 – 9 and the subsurface soil conditions have pH within a range of 5 – 11 indicating the Site is not environmentally sensitive.

6.6 Ground Water Quality

Groundwater samples were collected on December 6, 2022, and submitted for laboratory analysis of one or more of VOCs; BTEX; PHCs; PAHs; and metals (including copper, lead and zinc, As, Sb, Se; Cr(VI); and Hg) parameters as per **Table A** in **Appendix C**. The laboratory analyses were compared to the MECP Table 3 Standards.

The laboratory analyses were compared to the MECP Table 3 Standards for coarse textured soils. The summarized soil results and maximum groundwater concentrations are presented in **Table E2.** The laboratory analytical certificates are included in **Appendix F.**

Analytical results indicated that the samples had concentrations either below the MECP Table 3 Standards or were below the reportable laboratory detection limit for the parameters analyzed as shown in Tables **D1 to D4** in **Appendix C and on Figure 8 in Appendix A**.

There were no groundwater samples identified to exceed the MECP Table 3 Standards within the Site. All parameters analyzed were below the MECP Table 3 Standards or were below the reportable laboratory detection limit for the parameters analyzed.

Finally, a review of the field measurements at the time of the groundwater sampling on December 6, 2022, indicated that pH of the stabilized groundwater was noted between 6 and 8 and there were no significantly low or elevated pH levels in the groundwater on the Phase Two Property.

6.7 Sediment Quality

The Phase Two Property does not contain a water body as defined under O.Reg.153/04; therefore, no sediment samples were collected or analyzed.

6.8 Quality Assurance and Quality Control Results

6.8.1 Field QA/QC

Four soil and one groundwater field duplicate samples were submitted to the laboratory for selected analysis of VOCs; BTEX; PHCs; PAHs; laboratory pH and metals (including copper, lead and zinc, As, Sb, Se; Cr(VI); B-HWS; and Hg) parameters as outlined in **Table A** in **Appendix C**.

Based on the results of the duplicate analysis, the relative percent difference (RPD) was calculated as a measure of QA/QC. The RPD was calculated when the concentrations of both the original and duplicate samples were greater than 5 times the MDL. SLR's screening criteria for RPD is based on the MECPs "Protocol for Analytical Methods Used in the Assessment of Properties under Park XV.1 of the Environmental Protection Act and Excess Soil Quality" (February 19, 2021). The following RPDs relative to this Phase Two ESA include:

- **Soil:**
  - <30% for PHC, mercury, nutrients, boron (excluding HWS-boron) and hydride forming metals;
  - <35% for cyanide, chloride and hexavalent chromium;
  - <40 % for PAHs, OC pesticides and PCBs; and,
  - <50% for 1-4 dioxane and VOCs.
- **Groundwater:**
  - <20% cyanide, chloride, hexavalent chromium, mercury, boron, anions and hydride forming metals; and,
  - <30% PAHs, 1-4 dioxane, OC pesticides, PCBs, PHC, VOCs, and methyl mercury.

The RPD calculations for soil and groundwater are presented in **Tables F1 and F2 in Appendix C**, respectively.

The RPD for metals in soils were exceeded in seventeen samples as summarized below:

- B-HWS had an RPD of 76% (compared to the screening criterion of 40%) at BH22-09 (BH22-09-SS1 vs DUP-004);

- Barium had an RPD of 104% (compared to the screening criterion of 40%) at BH22-14 (BH22-14-SS3 vs DUP-002);
- Barium had an RPD of 42% (compared to the screening criterion of 40%) at BH22-01 (BH22-01-SS2 vs DUP-003);
- Barium had an RPD of 46% (compared to the screening criterion of 40%) at BH22-09 (BH22-09-SS1 vs DUP-004);
- Arsenic had an RPD of 43% (compared to the screening criterion of 40%) at BH22-09 (BH22-09-SS1 vs DUP-004);
- Beryllium had an RPD of 58% (compared to the screening criterion of 40%) at BH22-14 (BH22-14-SS3 vs DUP-002);
- Chromium Total had an RPD of 74% (compared to the screening criterion of 40%) at BH22-14 (BH22-14-SS3 vs DUP-002);
- Lead had an RPD of 51% (compared to the screening criterion of 40%) at BH22-09 (BH22-09-SS1 vs DUP-004);
- Nickel had an RPD of 46% (compared to the screening criterion of 40%) at BH22-14 (BH22-14-SS3 vs DUP-002);
- Thallium had an RPD of 44% (compared to the screening criterion of 40%) at BH22-01 (BH22-01-SS2 vs DUP-003);
- Uranium had an RPD of 57% (compared to the screening criterion of 40%) at BH22-09 (BH22-09-SS1 vs DUP-004);
- Vanadium had an RPD of 51% (compared to the screening criterion of 40%) at BH22-14 (BH22-14-SS3 vs DUP-002);
- Zinc had an RPD of 60% (compared to the screening criterion of 40%) at BH22-14 (BH22-14-SS3 vs DUP-002);
- Zinc had an RPD of 42% (compared to the screening criterion of 40%) at BH22-01 (BH22-01-SS2 vs DUP-003), and;
- Zinc had an RPD of 45% (compared to the screening criterion of 40%) at BH22-09 (BH22-09-SS1 vs DUP-004).

The variation in sample concentrations were attributed to heterogeneity of the fill material and the low concentrations of the parameters within the soils. SLR conservatively utilized the higher sample concentration for comparison to the appropriate MECP Table 3 Standards.

The RPD calculated for groundwater was within the screening criterion for all analyzed parameters in the duplicate sample.

A trip blank was analyzed for VOCs from the groundwater sampling event completed on December 6, 2022, to identify any potential cross contamination that may have occurred from other samples, ambient conditions or other sources that samples may have been exposed to. The trip blank concentrations were below the method detection limit (MDL).

The QA/QC procedures completed confirm the reliability and integrity of the results reported for the analysis completed within this report.

6.8.2 Laboratory QA/QC

BVL is a CALA accredited laboratory that uses regulatory, and industry recognized methods to conduct laboratory analyses. As conveyed by the laboratory, method blanks, control standards samples, certified reference material standards, method spikes, replicates, duplicates, and instrument blanks are routinely analyzed as part of their QA/QC programs.

The certificates of analysis received pursuant to clause 47 (2) (b) of O.Reg.153/04 comply with subsection 47 (3), a certificate of analysis or analytical report has been received for each sample submitted for analysis, and certificates of analysis are included in **Appendix E**.

Overall, the QA/QC procedures completed document the reliability and integrity of the results reported for the analysis completed within this report.

6.9 Phase Two Conceptual Site Model

6.9.1 Potentially Contaminating Activities

During the 2023 SLR Phase One ESA, the following PCAs within the Phase One Study Area were identified as shown in **Table 10.**

PCAs, which have been identified at the Site (On-Site) and within the Phase One Study Area (Off-Site) are listed in the table below:

Table 10: Phase Two Conceptual Site Model - PCAs

Potentially Contaminating Activity (PCA)[1]	Location of PCA (on-site or off-site)	Description
PCA 11 – Commercial Trucking and Container Terminals	On-site	Gravel roadways were constructed across the Site between 2008 and 2020 and subsequently removed or reworked during re-grading of the Site. In addition, the Site was used as a laydown area and an asphalt parking area was constructed and subsequently removed or buried at the south portion of the Site. A review of air photos between 2008 and 2020 identified commercial truck movement and storage at the Site which included vehicles and heavy equipment (i.e., trucks, trailers, loaders and excavators) parking on suspected fill material.

Potentially Contaminating Activity (PCA)[1]	Location of PCA (on-site or off-site)	Description
PCA 30 – Importation of Fill Material of Unknown Quality	On-site	Based on our records review the Site underwent significant earthworks and construction activities between 2008 and 2020 for future commercial use including clear cutting of trees, topsoil and peat stripping, aggregate processing, segregation and piling, diversion of the West Clarke Drain watercourse and temporary roadway construction for access to the then under construction residential subdivision to the north, east and west likely using reworked and imported fill materials. A review of air photos during this time period shows various fill piles across the Site which appear to be reworked, re-piled or removed from the Site and replaced with no clear systemic approach. During the watercourse diversion, The West Clarke Drain appears to have been backfilled during grading and reworking of surface material at the Site. Material used to fill the watercourse is of unknown source and quality. Minor fill piles and other areas of debris and domestic waste were observed on Site at the time of the Site visit.
PCA 30 – Importation of Fill Material of Unknown Quality	Off-site	Based on our records review, the surrounding properties to the north, south, east and west of the Site underwent earthworks and construction activities between 2008 and 2020. Fill stockpiles were observed on these properties to the south and east of the Site.
PCA 55 – Transformer Manufacturing, Processing and Use	Off-site	A concrete pad-mounted transformer was observed to the west of the Site at the time of the site visit and was located on the adjacent property to the west of the Site along the boulevard of Aphelion Crescent.

1 - PCA obtained from Table 2, Schedule D of O.Reg. 153/04 (as amended)

The location of the PCAs that contribute to APECs on the Site are shown on **Figure 3** and **Figure 4** in **Appendix A**. The location of the APECs and the corresponding contaminants of potential concern are shown on **Figure 4** in **Appendix A.**

Two of the PCAs identified were evaluated based on their potential to result in subsurface impacts on the Phase Two Property (i.e., distance from the site, size of the PCA, groundwater flow direction etc.). The following PCAs have been evaluated and did not result in on-site APEC:

- **PCA 30** – Importation of Fill Material of Unknown Quality, offsite. The presence of imported fill of unknown quality at the surrounding properties to the north, east, south and west is unlikely to contribute to an APEC on the Site based on the distances from the Site and redevelopment that has occurred on these surrounding properties.
- **PCA 55** – Transformer Manufacturing, Processing and Use. offsite. A concrete pad-mounted transformer was observed to the west of the Site at the time of the site visit and was located on the adjacent property to the west of the Site along the boulevard of Aphelion Crescent. No oil staining was observed on the concrete pad associated with this transformer at the time of the site visit and no spills were reported in the records review. Based on the above information and

distance from the Site the PCA associated with this transformer would not contribute to an APEC on the Site.

6.9.2 Areas of Potential Environmental Concern

Based on the information obtained during the 2023 SLR Phase One ESA, the following APECs associated with the Phase Two Property were identified as shown in **Table 11**.

Table 11: Phase Two Conceptual Site Model - Areas of Potential Environmental Concern (APECs)

Area of Potential Environmental Concern (APEC)[1]	Location of Area of Potential Environmental Concern on the Site	Potentially Contaminating Activity[2]	Location of PCA (On-site or Off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
APEC 1	Site (entirety)	PCA 11 – Commercial Trucking and Container Terminals	On-site	BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg;	Soil and Groundwater
APEC 2	Site (entirety)	PCA 30 – Importation of Fill Material of Unknown Quality	On-site	VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); B-HWS; Hg; low or high pH;	Soil and Groundwater

1 - APECs means the area on, in or under the Site where one or more contaminants are potentially present, as determined through the 2023 SLR Phase One ESA, including through:

(a) identification of past or present uses on, in or under the Site, and

(b) identification of PCAs.

2 - PCA obtained from Column A of Table 2 of Schedule D of O. Reg. 153/04 (as amended)

3 - Using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011

- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes; PHCs: Petroleum Hydrocarbons; VOCs: Volatile Organic Compound; PAHs: Polycyclic Aromatic Hydrocarbons

- Metals (O.Reg. 153/04) including hydride forming metals As, Sb, Se: Arsenic, Antimony, Selenium;
- Cr(VI): Hexavalent Chromium; B-HWS: Boron, Hot Water Soluble; Hg: Mercury

6.9.3 Building Details

The Phase Two Property consisted of an undeveloped/vacant land parcel with no buildings or structures.

6.9.4 Subsurface Utilities

The underground utilities/structures were identified by both public and private utility locators prior to commencement of field activities. SLR retained GeoTerre Limited to perform public and private utility locates for the Sites.

Based on the site observations, no subsurface structures were noted on the Phase Two Property. The Site is yet to be serviced, however, the approximate locations of underground utilities (i.e., storm drain, sanitary manhole) were identified as part of the utility locate clearances completed prior to drilling the boreholes/monitoring wells on the Phase Two Property as part of the Phase Two ESA investigation. The underground utilities were generally located on the south-central portion of the Phase Two Property. The presence of underground utilities noted in the above noted locations are not expected to significantly affect contaminant distribution and transport on the Phase Two Property.

6.9.5 Physical Setting

In general, the Site has a gentle slope to the southwest, however, on the east portion of the Site a larger slope was observed to be trending north to south and sloping to the west. Regionally the Phase One Study Area, gently sloped to the north towards the Jock River identified approximately 730 m north of the Site. According to the Plan of Survey provided by the Client, completed by Annis O'Sullivan Vollebekk Ltd. dated October 21, 2022, elevations at the Site ranged from approximately 94.63 m at the northeast portion of the Site to approximately 92.29 m at the southwest portion of the Site.

Based on the soil samples recovered during the Phase Two ESA, the soil stratigraphy observed at the Site was described as fill (described as topsoil, sand, sandy silt, silt or silty clay with thicknesses ranging from 0.61 m to 2.29 m) underlain by sandy silt to a maximum borehole depth of 2.74 mbgs (BH22-10) followed by silty clay to a maximum borehole termination depth of 5.18 mbgs (or an elevation of 87.28 m) in borehole BH22-05. Peat was identified at the central and west portions of the Site in boreholes BH22-01, BH22-06, BH22-09 and BH22-12 with a maximum thickness of 0.3 m and at a maximum depth of 0.9 mbgs. Potentially deleterious fill material (brick pieces, concrete and wood debris) were observed in boreholes BH22-13 and BH22-14, however, soil samples collected from this material met the MECP Table 3 Standards. The soil stratigraphy to the maximum boring termination depth in the borehole/monitoring wells completed at the Phase Two Property were interpreted to represent an unconfined aquifer. No other aquifers or aquitards were encountered during the drilling of the boreholes/monitoring wells as part of this Phase Two ESA.

Bedrock was not encountered in the borehole locations investigated up to the maximum boring termination depth of 5.2 mbgs. As noted above, bedrock in the vicinity of the Phase Two Property is anticipated at a minimum depth of approximately 15.7 mbgs. As such, the Phase Two Property is not a "shallow soil property" as defined in O. Reg. 153/04.

The Phase Two ESA identified the surficial aquifer located within a predominantly silty clay geological unit on the Site. The thickness of the geological unit containing the surficial aquifer was noted to be up to approximately 3.8 m thick (elevation from 91.11 to 87.33 m) on the Site (BH22-01). There was no underlying aquitard identified in the Phase Two ESA investigation. SLR notes that no other aquifers or aquitards were encountered in this Phase Two ESA and deeper stratigraphy or aquifers at the Site were not investigated since no contamination above the current appliable MECP Standards (MECP Table 3

Standards) for the parameters sampled were identified on the Site at this time. The above noted aquifer was assessed by SLR as the shallow groundwater table was encountered within this aquifer. As no contamination was identified in the submitted soil samples from this aquifer and the concentrations of contaminants in the submitted groundwater samples were also noted to be below the applicable MECP Table 3 Standards, the potential for other aquifers to be impacted from the identified PCAs appears to be low at this time. Furthermore, the presence of silty clay in this geological unit would retain contaminants in the shallow geological unit (if contamination was identified).

Excess soil has not been placed within the Phase Two ESA, though previous fill has been placed across the Site and was assessed as part of this investigation. The source of the fill material remains unknown.

A total of four (4) monitoring wells were included in the Phase Two ESA and used to assess groundwater elevations. The groundwater monitoring wells were constructed with the screens placed near the base of the fill contact within the water table to assess the groundwater conditions and quality and offer vertical delineation of potential impacts. One round of groundwater monitoring was completed following well development at the Phase Two Property and the groundwater elevations within the unconfined aquifer ranged from 91.65 metres above Site Datum (at BH22-04) to 92.31 metres above Site Datum (BH22-01) on December 6, 2022. The groundwater elevation and interpreted water table elevation for the Phase Two Property has been interpreted to be towards the east, as presented on **Figure 6** and is not consistent with regional groundwater flow in the area which had been interpreted to be towards the north in the 2023 SLR Phase One ESA. During the 2023 SLR Phase One ESA, determination of groundwater flow direction was based a review of topographical and hydrological features at the Site or within the Phase One Study Area. Foundations buried utilities/services, subsurface drainage (including septic) systems and zones of local, natural high permeability soils (sand seams/lenses and fissures), fractured bedrock and zones of buried rubble (concrete and building stone, metal) may alter groundwater movement. It is expected that groundwater levels would seasonally fluctuate, and groundwater levels may be different, if monitored at different points in time. Based on site observation and information to date, the change in flow direction would alter the conclusions of the work performed.

Based on Site topography the water table is typically encountered at 0.19 mbgs at BH22-01 to 2.40 mbgs at BH22-14 and generally observed within the silty clay.

No sheen or LNAPL was detected in any of the monitoring events at the monitoring well locations.

Since there was no groundwater contamination above the current MECP Standards, horizontal and vertical hydraulic gradients were not determined for the unconfined aquifer as part of the Phase Two ESA. No nested monitoring wells were installed at the Phase Two Property as part of the Phase Two ESA.

Groundwater elevations in the monitoring wells altered by approximately 0.5 m prior to and after well development. These changes are considered minor and suggest that the seasonal fluctuations in the unconfined aquifer at the Phase Two Property appear to be minimal.

The Site is proposed to be redeveloped for commercial purposes. The proposed development comprises four buildings, two located at the north portion of the Site and two located at the south portions of the Site. Asphalt covered parking areas will primarily be located at the central and west portions of the Phase Two Property. A draft concept plan dated March 9, 2023, is provided in **Appendix B.**

6.9.6 Applicable Site Condition Standards

As detailed in Section 2.4, the current applicable site condition standards for the Phase Two Property were determined to be the "Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition" from the MECP document entitled "Soil, Ground Water and Sediment Standards for Use Under

Part XV.1 of the Environmental Protection Act", April 15, 2011 (herein referred to as the "MECP Table 3 Standards") for the proposed future property use of the Site (i.e., commercial) for coarse textured soils.

6.9.7 Subsurface Quality

6.9.7.1 Soil Quality

Results of the Phase Two ESA analytical results indicated that the soil samples had concentrations either below the applicable standards (MECP Table 3 Standards) or were below the reportable laboratory detection limit for the parameters analyzed.

A summary of the soil quality is provided in **Table E1**.

6.9.7.2 Groundwater Quality

Results of the Phase Two ESA analytical results indicated that the groundwater samples had concentrations either below the applicable standards (MECP Table 3 Standards) or were below the reportable laboratory detection limit for the parameters analyzed.

A summary of the groundwater quality is provided in **Table E2**.

7.0 Conclusions

A Phase One and Two ESA were completed to support Choice Properties Limited Partnership (Choice), site plan application submission to The City of Ottawa as part of the proposed development of the Phase Two Property, located at 3850 Cambrian Road in Ottawa (Nepean), Ontario, and referred to as the "Phase Two Property", "Site" or "Phase One Property".

The Phase Two ESA was completed between November 23, 2022, and December 6, 2022, and included the installation of nine (9) boreholes with four (4) completed as monitoring wells. Soil and groundwater samples were analyzed for COPCs including VOCs; BTEX; PHCs; PAHs; laboratory pH, metals (including copper, lead and zinc, As, Sb, Se; Cr(VI); B-HWS; and Hg) parameters to assess each of the identified APECs from the 2023 SLR Phase One ESA.

Soil results were below the MECP Table 3 Standards for COPCs related to APECs identified in the 2023 SLR Phase One ESA including VOCs; BTEX; PHCs; PAHs; laboratory pH and metals.

The Phase Two investigations indicated that groundwater occurs within or just below the base of the silty clay and the interpreted groundwater flow is towards east. No sheen or LNAPL was detected in any of the monitoring events at the monitoring well locations. Groundwater results from the Phase Two ESA were below the MECP Table 3 Standards for the COPCs (VOCs; BTEX; PHCs; PAHs; and metals) related to APECs identified in the 2023 SLR Phase One ESA.

It is the opinion of the Qualified Person (QP_{ESA}) that the MECP Table 3 Standards for soil and groundwater within the Phase Two Property outlined herein have been met as of December 6, 2022. Thus, no additional subsurface investigations nor remedial work are required with respect to the quality of soils and groundwater within the Phase Two Property.

7.1 Signatures

The Phase Two ESA was prepared by Mr. Pierre D'Angelo, P.Eng., QP_{ESA}, who is an Environmental Engineer, Project Manager and Qualified Person for Environmental Site Assessments with over 14 years' experience in the assessment and remediation of contaminated sites and has completed several complex projects including Phase One and Two ESAs; in support of real estate, financial due diligence, property risk management and property redevelopment (including the submission of Record of Site Conditions in Ontario).

The report was reviewed by Mr. Tim Whalen, M.A.Sc. who is a Senior Environmental Project Manager with over 27 years' experience in the assessment and remediation of contaminated sites. Mr. Whalen has conducted and/or reviewed Phase I ESAs on over 500 sites from properties in urban settings to remote and challenging access locations.

The findings and conclusion of this report have been supervised and reviewed by the undersigned Qualified Person(s). SLR confirms the carrying out of the Phase Two ESA and the findings and conclusions of this report.

Sincerely,

SLR Consulting (Canada) Ltd.

Pierre D'Angelo, P.Eng., QP_{ESA}
Environmental Engineer, Project Manager

Tim Whalen, M.A.Sc.
Managing Principal, Built Environment Sector Leader

Distribution: 1 electronic copy – Choice Properties Limited Partnership

1 electronic copy – SLR Consulting (Canada) Ltd.

8.0 Statement of Limitations

This report has been prepared and the work referred to in this report has been undertaken by SLR Consulting (Canada) Ltd. (SLR) for Choice Properties Limited Partnership, hereafter referred to as the "Client". It is intended for the sole and exclusive use of Choice Properties Limited Partnership. Other than by the Client and as set out herein, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted unless payment for the work has been made in full and express written permission has been obtained from SLR.

Any conclusions or recommendations made in this report reflect SLR's professional opinion based on limited investigations including: visual site inspection(s) on the date(s) set out in this report; examination of public records and interviews with individuals having information about the site. While efforts have been made to substantiate information provided by third parties, SLR makes no representation or warranty as to its completeness or accuracy.

This report has been prepared for specific application to this site and conditions existing at the time work for the report was completed. Unless otherwise stated, the findings cannot be extended to previous or future site conditions and portions of the site which were unavailable for direct investigation. Unless otherwise stated in the report, surface and/or subsurface soil, groundwater, vapour; chemical parameters; or materials were not investigated directly; or chemical parameters, materials or analysis were not addressed. Substances other than those addressed by the investigation described in this report may exist within the site; and substances addressed by the investigation may exist in areas of the site not investigated or in quantities not ascertained.

Nothing in this report is intended to constitute or provide a legal opinion. SLR makes no representation as to the requirements of or compliance with environmental laws, rules, regulations or policies established by federal, provincial or local government bodies. Revisions to the regulatory standards referred to in this report may be expected over time. As a result, modifications to the findings, conclusions and recommendations in this report may be necessary.

The Client may submit this report to the Ontario Ministry of the Environment, Conservation and Parks (MECP) and/or related Ontario environmental regulatory authorities or persons for review and comment purposes.

9.0 References

Ontario Regulation (O. Reg.) 153/04 – Records of Site Condition – Part XV.1 of the Act; last amendment: O. Reg. 214/21 on March 19, 2021.

"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", MECP, dated April 15, 2011.

"Guide for Completing Phase One Environmental Site Assessments under Ontario Regulation 153/04", Queen's Printer of Ontario. June 2011.

"Guide for Completing Phase Two Environmental Site Assessments under Ontario Regulation 153/04", Queen's Printer of Ontario. June 2011.

"Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", MECP, dated June 2011.

"Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario", MECP, dated December 1996.

"Guideline for Use at Contaminated Sites in Ontario", MECP, dated February 1997.

"Phase One Environmental Site Assessment, 3850 Cambrian Road, Ottawa, Ontario" report, prepared by SLR Consulting (Canada) Ltd. for Choice Properties Limited Partnership, dated January 31,2023.

Plan of Survey completed by Annis O'Sullivan Vollebekk Ltd., dated October 21, 2022.

Draft Concept Plan completed by Turner Fleischer Architects Inc., dated October 28, 2022, revised March 9, 2023.

City of Ottawa Official Plan

City of Ottawa, GeoOttawa Interactive map application: https://maps.ottawa.ca/geoottawa/.

The MECP well records map.

Google Earth.

Appendix A – Figures

Phase Two Environmental Site Assessment

3850 Cambrian Road
Ottawa, Ontario

Choice Properties Limited Partnership

SLR Project No. 209.013940.00001

March 24, 2023

NOTES:

NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.

REFERENCED FROM: TOPOGRAPHY PLAN FROM ONTARIO LAND SURVEYORS ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO. 23350-22 AND SITE RECONNAISSANCE INFORMATION.
IMAGERY: MAXAR (IMAGE DATE: 2021)

LEGAL DESCRIPTION:
PART 1 PIN 04595 - 2079 AND PART 3 PIN 04595 - 2080
OTTAWA, ONTARIO

BASEDATA:
ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

LEGEND:

- PROPERTY BOUNDARY
- PHASE ONE AND TWO PROPERTY BOUNDARY
- PHASE ONE STUDY AREA
- INFERRED GROUNDWATER FLOW DIRECTION

CHOICE PROPERTIES LIMITED PARTNERSHIP
3850 CAMBRIAN ROAD
OTTAWA, ONTARIO

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SITE LOCATION AND SURROUNDING LAND USE

FIGURE NO: **1**

DATE: January 9, 2023

PROJECT NO: 209.13940.00001

Cadfile name: S_209-13940-00001-A1.dwg

LEGEND:

- PROPERTY BOUNDARY
- PHASE ONE AND TWO BOUNDARY
- INFERRED GROUNDWATER FLOW DIRECTION
- WATER WELL: NOT MECP REGISTERED
- TBM BENCHMARK
- BOREHOLE
- BOREHOLE LOCATION COMPLETED AS A MONITORING WELL

UTILITIES AND SYMBOLS

- MH MANHOLE
- U/G SANITARY SEWER
- U/G STORM SEWER

NOTES:

NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.

REFERENCED FROM: TOPOGRAPHY PLAN FROM ONTARIO LAND SURVEYORS ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO. 23350-22 AND SITE RECONNAISSANCE INFORMATION.
IMAGERY: CITY OF OTTAWA (IMAGE DATE: 2021)

PHASE TWO DRILLING PROGRAM WAS COMPLETED COINCIDENTALLY WITH THE GEOTECHNICAL PROGRAM; BH22_02, BH22_03, BH22_07, BH22_08, AND BH22_11 WERE COMPLETED ONLY FOR THE GEOTECHNICAL INVESTIGATION AND ARE REPORTED ON UNDER A SEPARATE COVER BY GEO TERRE

LEGAL DESCRIPTION:
PART 1 PIN 04595 - 2079 AND PART 3 PIN 04595 - 2080
OTTAWA, ONTARIO

0 5 10 20 30 40 m

SCALE 1:750
WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT
NAD 1983 UTM Zone 18 N

CHOICE PROPERTIES LIMITED PARTNERSHIP
3850 CAMBRIAN ROAD
OTTAWA, ONTARIO

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

BOREHOLE AND MONITORING WELL LOCATION PLAN

SLR

FIGURE NO: **2**

DATE: January 9, 2023

PROJECT NO: 209.13940.00001

Cadfile name: S_209-13940-00001-A2.dwg

Potentially Contaminating Activity (PCA)[1]	Location of PCA (on-site or off-site)	Description
PCAs contributing to an APEC at the Site		
PCA 30 – Importation of Fill Material of Unknown Quality	On-site	Based on our records review the Site underwent significant earthworks and construction activities between 2008 and 2020 including clear cutting of trees, topsoil and peat stripping, aggregate processing, segregation and piling, diversion of the West Clarke Drain watercourse and temporary roadway construction for access to the then under construction residential subdivision to the north, east and west likely using reworked and imported fill materials. A review of air photos during this time period shows various fill piles across the Site which appear to be reworked, re-piled or removed from the Site and replaced with no clear systemic approach. During the watercourse diversion, The West Clarke Drain appears to have been backfilled during grading and reworking of surface material at the Site. Material used to fill the watercourse is of unknown source and quality. Minor fill piles and other areas of debris and domestic waste were observed on Site at the time of the Site visit.
PCA 11 – Commercial Trucking and Container Terminals	On-site	Gravel roadways were constructed across the Site between 2008 and 2020 and subsequently removed or reworked during re-grading of the Site. In addition, the Site was used as a laydown area and an asphalt parking area was constructed and subsequently removed or buried at the south portion of the Site. A review of air photos between 2008 and 2020 identified commercial truck movement and storage at the Site which included vehicles and heavy equipment (i.e., trucks, trailers, loaders and excavators) parking on suspected fill material.
PCAs not contributing to an APEC[2] at the Site		
PCA 30 – Importation of Fill Material of Unknown Quality	Off-site	Based on our records review the surrounding properties to the north, south, east and west of the Site underwent significant earthworks and construction activities between 2008 and 2020
PCA 55 – Transformer Manufacturing, Processing and Use	Off-site	A concrete pad-mounted transformer was observed to the west of the Site.

1 - PCA obtained from Column A of Table 2 of Schedule D of O. Reg. 153/04 (as amended)
2 - In brief, these PCAs were not considered to contribute to an APEC on the Phase One Property based on the proximity to the Site, inferred groundwater flow direction, nature and duration of operations and associated chemicals/wastes and available soil and groundwater analytical results (as detailed further in the text of the Phase One ESA report).

NOTES:
- PCAs: Potentially Contaminating Activities
- APEC: Area of Potential Environmental Concern
- MECP: Ministry of the Environment, Conservation and Park (MECP)

LEGEND:

- PROPERTY BOUNDARY
- PHASE ONE AND TWO BOUNDARY
- PHASE ONE STUDY AREA
- INFERRED GROUNDWATER FLOW DIRECTION
- # PCA NUMBER DOES NOT CONTRIBUTE TO AN APEC
- # PCA NUMBER CONTRIBUTES TO AN APEC
- MECP REGISTERED WATER WELL
- WATER WELL: NOT MECP REGISTERED

NOTES:
NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.

REFERENCED FROM: TOPOGRAPHY PLAN FROM ONTARIO LAND SURVEYORS ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO. 23350-22 AND SITE RECONNAISSANCE INFORMATION.
IMAGERY: MAXAR (IMAGE DATE: 2021)

LEGAL DESCRIPTION:
PART 1 PIN 04595 - 2079 AND PART 3 PIN 04595 - 2080
OTTAWA, ONTARIO

0 25 50 100 150 m
SCALE 1:3,000
WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT
NAD 1983 UTM Zone 18 N

CHOICE PROPERTIES LIMITED PARTNERSHIP
3850 CAMBRIAN ROAD
OTTAWA, ONTARIO

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

PHASE ONE STUDY AREA AND POTENTIALLY CONTAMINANTING ACTIVITIES

SLR

FIGURE NO:
3

DATE: January 9, 2023
PROJECT NO: 209.13940.00001

Cadfile name: S_209-13940-00001-A1.dwg

Area of Potential Environmental Concern (APEC)[1]	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity (PCA)[2]	Location of PCA (On-site or Off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
APEC 1	Entire Phase One Property	PCA 11 – Commercial Trucking and Container Terminals	On-site	BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg;	Soil and Groundwater
APEC 2	Entire Phase One Property	PCA 30 – Importation of Fill Material of Unknown Quality	On-site	VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); B-HWS; Hg; low or high pH;	Soil and Groundwater

1 - APECs means the area on, in or under the Phase One Property where one or more contaminants are potentially present, as determined through the Phase One ESA, including through:
(a) identification of past or present uses on, in or under the Phase One Property, and
(b) identification of PCAs.
2 - PCA obtained from Column A of Table 2 of Schedule D of O. Reg. 153/04 (as amended)
3 - Using the Method Groups as identified in the *Protocol for in the Assessment of Properties under Part XV.1* of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011

NOTES:
- MECP: Ministry of the Environment, Conservation and Park (MECP)
- PCAs: Potentially Contaminating Activities
- APEC: Area of Potential Environmental Concern
- VOCs: Volitile Organic Compounds; BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes; PHCs: Petroleum Hydrocarbons; PAHs: Polycyclic Aromatic Hydrocarbons
- As, Sb, Se: Arsenic, Antimony, Selenium; Cr(VI): Hexavalent Chromium; B-HWS: Boron, Hot Water Soluble; Hg: Mercury
- CN-: Cyanide; SAR: Sodium Adsorption Ratio

LEGEND:

- PROPERTY BOUNDARY
- PHASE ONE AND TWO BOUNDARY
- PHASE ONE STUDY AREA
- INFERRED GROUNDWATER FLOW DIRECTION
- # PCA NUMBER CONTRIBUTES TO AN APEC
- AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)
- MECP REGISTERED WATER WELL
- WATER WELL: NOT MECP REGISTERED

NOTES:
NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.

REFERENCED FROM: TOPOGRAPHY PLAN FROM ONTARIO LAND SURVEYORS ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO. 23350-22 AND SITE RECONNAISSANCE INFORMATION.
IMAGERY: MAXAR (IMAGE DATE: 2021)

LEGAL DESCRIPTION:
PART 1 PIN 04595 - 2079 AND PART 3 PIN 04595 - 2080
OTTAWA, ONTARIO

0 25 50 100 150 m
SCALE 1:3,000
WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT
NAD 1983 UTM Zone 18 N

CHOICE PROPERTIES LIMITED PARTNERSHIP
3850 CAMBRIAN ROAD
OTTAWA, ONTARIO

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

SLR

FIGURE NO: 4

DATE: January 9, 2023

PROJECT NO: 209.13940.00001

Cadfile name: S_209-13940-00001-A1.dwg

LEGEND:

- PROPERTY BOUNDARY
- PHASE ONE AND TWO BOUNDARY
- INFERRED GROUNDWATER FLOW DIRECTION
- # PCA NUMBER CONTRIBUTES TO AN APEC
- AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)
- BOREHOLE
- BOREHOLE LOCATION COMPLETED AS A MONITORING WELL

UTILITIES AND SYMBOLS

- MH MANHOLE
- U/G SANITARY SEWER
- U/G STORM SEWER

NOTES:

NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.

REFERENCED FROM: TOPOGRAPHY PLAN FROM ONTARIO LAND SURVEYORS ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO. 23350-22 AND SITE RECONNAISSANCE INFORMATION.
IMAGERY: CITY OF OTTAWA (IMAGE DATE: 2021)

LEGAL DESCRIPTION:
PART 1 PIN 04595 - 2079 AND PART 3 PIN 04595 - 2080
OTTAWA, ONTARIO

0 5 10 20 30 40 m

SCALE 1:750
WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT
NAD 1983 UTM Zone 18 N

CHOICE PROPERTIES LIMITED PARTNERSHIP
3850 CAMBRIAN ROAD
OTTAWA, ONTARIO

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

INVESTIGATION LOCATONS AND AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

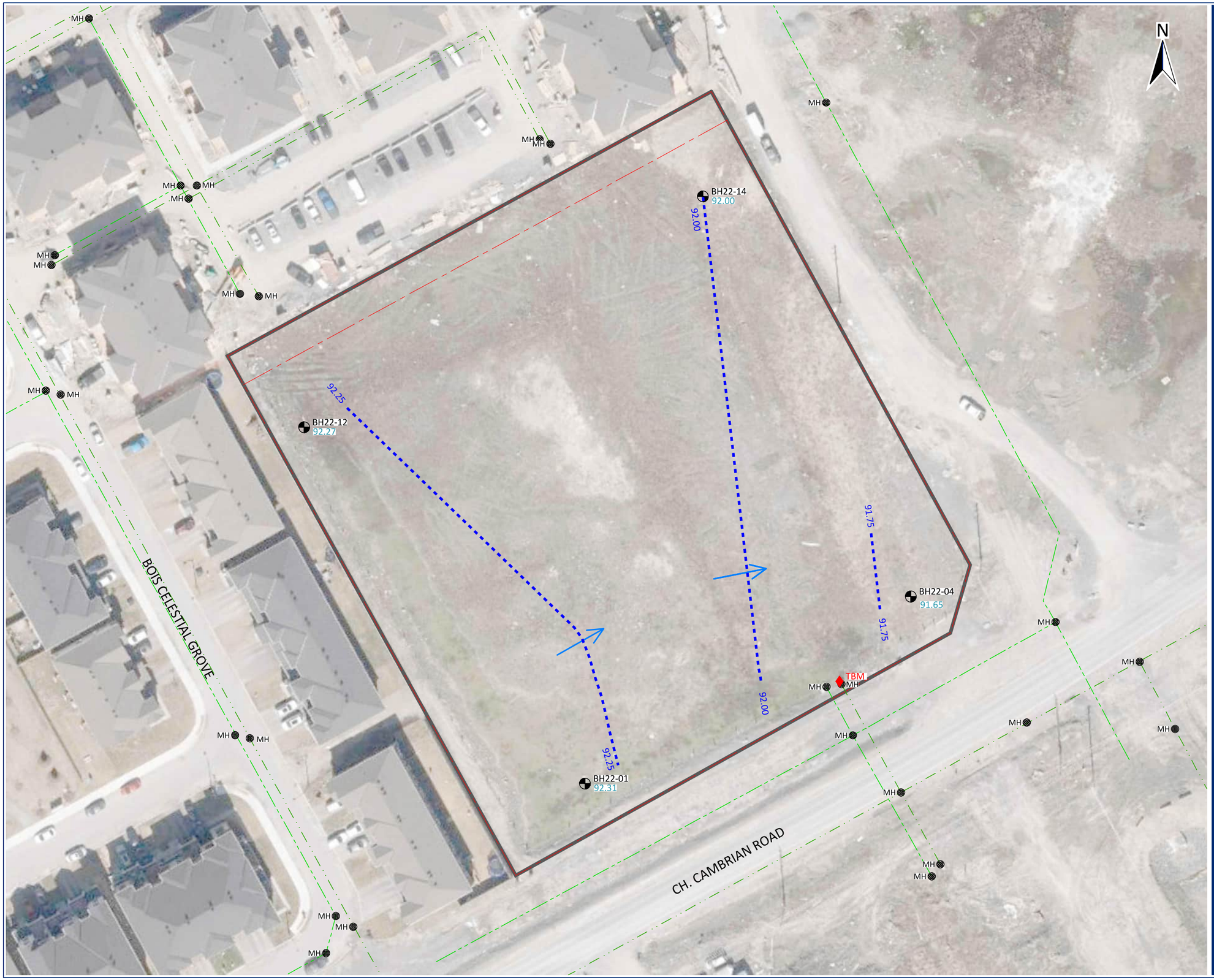
SLR

FIGURE NO: **5**

DATE: January 9, 2023

PROJECT NO: 209.13940.00001

Cadfile name: S_209-13940-00001-A2.dwg



LEGEND:

- PROPERTY BOUNDARY
- PHASE ONE AND TWO BOUNDARY
- TBM BENCHMARK
- BOREHOLE LOCATION COMPLETED AS A MONITORING WELL

UTILITIES AND SYMBOLS
- MH MANHOLE
- U/G SANITARY SEWER
- U/G STORM SEWER

GROUNDWATER MONITORING RESULTS
- 98.55 GROUNDWATER ELEVATION (m)
- INTERPRETED GROUNDWATER FLOW DIRECTION
- 92.00 INFERRED GROUNDWATER ELEVATION CONTOUR (INTERVAL 0.25 M)

NOTES:

NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.

REFERENCED FROM: TOPOGRAPHY PLAN FROM ONTARIO LAND SURVEYORS ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO. 23350-22 AND SITE RECONNAISSANCE INFORMATION.
IMAGERY: CITY OF OTTAWA (IMAGE DATE: 2021)

All groundwater Elevations relative to geodetic site datum of 93.550 m (Plan of Survey completed by Annis O'Sullivan Vollebekk Ltd. dated October 21, 2022)

GROUNDWATER CONTOURS ON THE DATE OF MONITORING NOTED BELOW AND ARE INTERPOLARED BETWEEN THE DATA POINTS AND MAY NOT BE EXACTYLY AS SHOWN

LEGAL DESCRIPTION:
PART 1 PIN 04595 - 2079 AND PART 3 PIN 04595 - 2080
OTTAWA, ONTARIO

0 5 10 20 30 40 m

SCALE 1:750
WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT
NAD 1983 UTM Zone 18 N

CHOICE PROPERTIES LIMITED PARTNERSHIP
3850 CAMBRIAN ROAD
OTTAWA, ONTARIO

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

WATER TABLE ELEVATIONS AND INTERPRETED GROUNDWATER FLOW (DECEMBER 6, 2023)

SLR

FIGURE NO: 6

DATE: January 9, 2023

PROJECT NO: 209.13940.00001

Cadfile name: S_209-13940-00001-A2.dwg

LEGEND:

- PROPERTY BOUNDARY
- PHASE ONE AND TWO BOUNDARY
- INFERRED GROUNDWATER FLOW DIRECTION
- # PCA NUMBER CONTRIBUTES TO AN APEC
- AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)
- BOREHOLE
- BOREHOLE LOCATION COMPLETED AS A MONITORING WELL

UTILITIES AND SYMBOLS
- MH MANHOLE
- U/G SANITARY SEWER
- U/G STORM SEWER

SOIL LABORATORY ANALYSIS RESULTS
CONCENTRATIONS MEET REFERENCED MECP SOIL STANDARDS[a]

NOTES:

NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.

REFERENCED FROM: TOPOGRAPHY PLAN FROM ONTARIO LAND SURVEYORS ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO. 23350-22 AND SITE RECONNAISSANCE INFORMATION.
IMAGERY: CITY OF OTTAWA (IMAGE DATE: 2021)

LEGAL DESCRIPTION:
PART 1 PIN 04595 - 2079 AND PART 3 PIN 04595 - 2080
OTTAWA, ONTARIO

MECP: MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS of (MECP)

a- "FULL DEPTH GENERIC SITE CONDITION SATNDARDS IN A NON-POTABLE GROUND WATER CONDITION" FROM THE MECP DOCUMENT ENTITLED "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", APRIL 15, 2011 (HEREIN REFERRED TO AS THE "MECP TABLE 3 STANDARDS") FOR THE PROPOSED USE OF THE SITE (I.E., COMMERCIAL) FOR COARSE TEXTURED SOILS.

0 5 10 20 30 40 m

SCALE 1:750
WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT
NAD 1983 UTM Zone 18 N

CHOICE PROPERTIES LIMITED PARTNERSHIP
3850 CAMBRIAN ROAD
OTTAWA, ONTARIO

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SOIL ANALYTICAL RESULTS

SLR

FIGURE NO: 7

DATE: January 9, 2023

PROJECT NO: 209.13940.00001

Cadfile name: S_209-13940-00001-A2.dwg

LEGEND:

- PROPERTY BOUNDARY
- PHASE ONE AND TWO BOUNDARY
- INFERRED GROUNDWATER FLOW DIRECTION
- # PCA NUMBER CONTRIBUTES TO AN APEC
- AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)
- BOREHOLE LOCATION COMPLETED AS A MONITORING WELL

UTILITIES AND SYMBOLS
- MH MANHOLE
- U/G SANITARY SEWER
- U/G STORM SEWER

GROUNDWATER LABORATORY ANALYSIS RESULTS
CONCENTRATIONS MEET REFERENCED MECP GROUNDWATER STANDARDS[a]

NOTES:

NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.

REFERENCED FROM: TOPOGRAPHY PLAN FROM ONTARIO LAND SURVEYORS ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO. 23350-22 AND SITE RECONNAISSANCE INFORMATION.
IMAGERY: CITY OF OTTAWA (IMAGE DATE: 2021)

LEGAL DESCRIPTION:
PART 1 PIN 04595 - 2079 AND PART 3 PIN 04595 - 2080
OTTAWA, ONTARIO

MECP: MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS of (MECP)

a - "FULL DEPTH GENERIC SITE CONDITION SATNDARDS IN A NON-POTABLE GROUND WATER CONDITION" FROM THE MECP DOCUMENT ENTITLED "SOIL, GROUND WATER AND SEDIMENT STANDARDS FOR USE UNDER PART XV.1 OF THE ENVIRONMENTAL PROTECTION ACT", APRIL 15, 2011 (HEREIN REFERRED TO AS THE "MECP TABLE 3 STANDARDS") FOR THE PROPOSED USE OF THE SITE (I.E., COMMERCIAL) FOR COARSE TEXTURED SOILS.

0 5 10 20 30 40 m

SCALE 1:750
WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT
NAD 1983 UTM Zone 18 N

CHOICE PROPERTIES LIMITED PARTNERSHIP
3850 CAMBRIAN ROAD
OTTAWA, ONTARIO

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

GROUNDWATER ANALYTICAL RESULTS

SLR

FIGURE NO: 8

DATE: January 9, 2023

PROJECT NO: 209.13940.00001

Cadfile name: S_209-13940-00001-A2.dwg

Appendix B – Plan of Survey and Draft Concept Plan

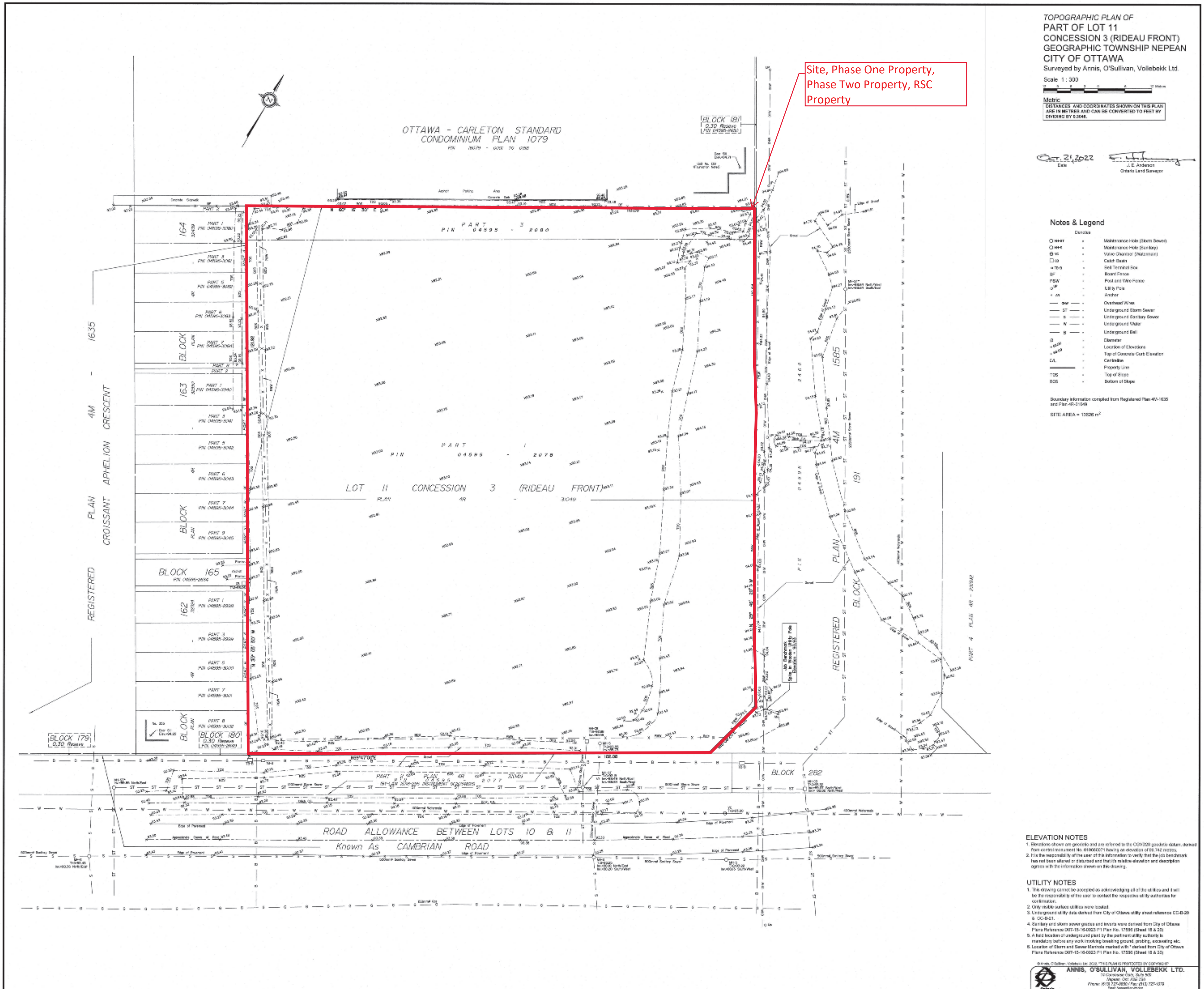
Phase Two Environmental Site Assessment

3850 Cambrian Road
Ottawa, Ontario

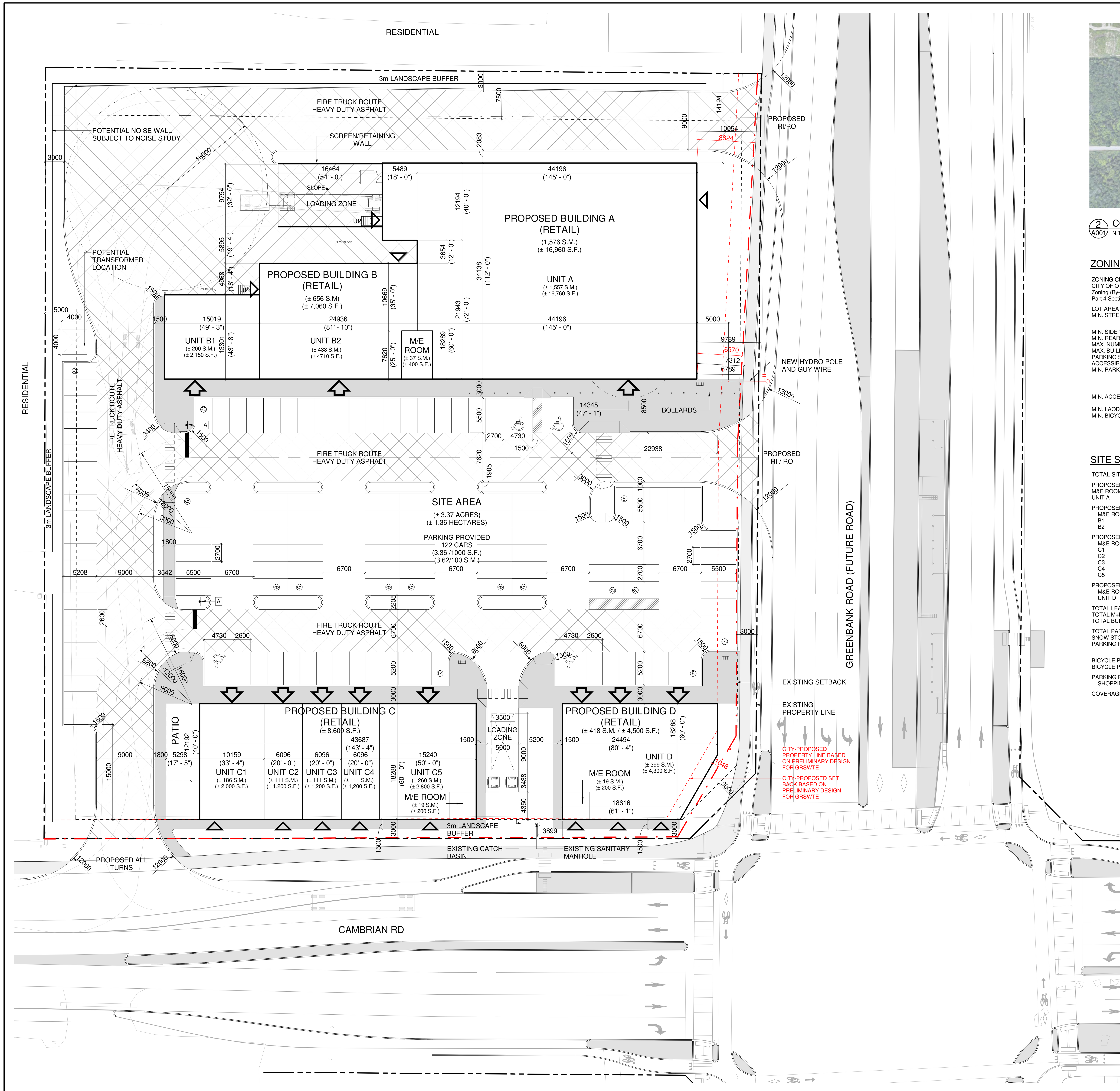
Choice Properties Limited Partnership

SLR Project No. 209.013940.00001

March 24, 2023



TOPOGRAPHIC PLAN OF
PART OF LOT 11
CONCESSION 3 (RIDEAU FRONT)
GEOGRAPHIC TOWNSHIP NEPEAN
CITY OF OTTAWA
Surveyed by Annis, O'Sullivan, Vollebekk Ltd.
Scale 1 : 300
Metric
DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.
Site, Phase One Property, Phase Two Property, RSC Property
OTTAWA - CARLETON STANDARD CONDOMINIUM PLAN 1079
LOT 11 CONCESSION 3 (RIDEAU FRONT)
REGISTERED PLAN 4M - 1635
CROISSANT APHELION CRESCENT
REGISTERED PLAN 4M - 1585
BLOCK 165
BLOCK 179
BLOCK 180
BLOCK 181
BLOCK 191
BLOCK 282
ROAD ALLOWANCE BETWEEN LOTS 10 & 11
Known As CAMBRIAN ROAD
Notes & Legend
ELEVATION NOTES
UTILITY NOTES
ANNIS, O'SULLIVAN, VOLLEBEKK LTD.



1 SITE PLAN
A001 1 : 300

2 CONTEXT PLAN
A001 N.T.S

ZONING CHART

ZONING CHART CITY OF OTTAWA Zoning (By-law No. 2008-250) Part 4 Sections 100-114	REQUIRED	PROPOSED * indicates non-compliance
LOT AREA	N/A	13,637.9 S.M.
MIN. STREET LINE SETBACK	3.0M	3.0M (ALONG CAMBRIAN ROAD) 0.7* (ALONG RE-ALIGNED GREENBANK ROAD)
MIN. SIDE YARD SETBACK	3.0M	9.0M (NORTHERLY SIDE)
MIN. REAR YARD SETBACK	7.5M	7.5M
MAX. NUMBER OF BUILDINGS ON A LOT	MORE THAN ONE (1) MAIN BUILDING PERMITTED	3 BUILDINGS
MAX. BUILDING HEIGHT	12.5M AND XX STOREYS	6.7M
PARKING SPACE DIMENSIONS	2.6M (MIN) 3.1M (MAX) WIDE x 5.2M LONG	2.7M x 5.5M
ACCESSIBLE PARKING DIMENSIONS	3.66M	
MIN. PARKING SPACES	SHOPPING CENTRE: 122 CARS 3.6 CARS (PER) 100 S.M. OF TOTAL LEASABLE FLOOR AREA	122 CARS
MIN. ACCESSIBLE PARKING SPACE	2 CARS RANGING FROM 100-199 AS PER PART C TABLE SECTION 111	4 SPACES
MIN. LAODING SPACES	1 (3.5M X 9M)	2
MIN. BICYCLE PARKING SPACES	13 SPACES	16 SPACES

SITE STATISTICS

TOTAL SITE AREA	±3.37 ACRES	±1.36 HA.
PROPOSED BUILDING A AREA	±16,960 S.F.	±1,576 S.M.
M&E ROOM	±200 S.F.	±19 S.M.
UNIT A	±16,760 S.F.	±1,557 S.M.
PROPOSED BUILDING B AREA	±7,060 S.F.	±656 S.M.
M&E ROOM	±200 S.F.	±19 S.M.
B1	±2,150 S.F.	±200 S.M.
B2	±4,710 S.F.	±438 S.M.
PROPOSED BUILDING C AREA	±8,600 S.F.	±799 S.M.
M&E ROOM	±200 S.F.	±19 S.M.
C1	±2,000 S.F.	±186 S.M.
C2	±1,200 S.F.	±111 S.M.
C3	±1,200 S.F.	±111 S.M.
C4	±1,200 S.F.	±111 S.M.
C5	±2,800 S.F.	±260 S.M.
PROPOSED BUILDING D AREA	±4,500 S.F.	±418 S.M.
M&E ROOM	±200 S.F.	±19 S.M.
UNIT D	±4,300 S.F.	±399 S.M.
TOTAL LEASABLE FLOOR AREA	±36,320 S.F.	±3,374 S.M.
TOTAL M+E ROOM AREA	±800 S.F.	±74 S.M.
TOTAL BUILDING FLOOR AREA	±37,920 S.F.	±3,523 S.M.
TOTAL PARKING		122 CARS
SNOW STORAGE SPACES		0 CARS
PARKING PROVIDED (N.I.C SNOW STORAGE)		122 CARS
	3.36/1,000 S.F	3.62/100 S.M
BICYCLE PARKING REQUIRED		13 BIKES
BICYCLE PARKING PROVIDED		18 BIKES
PARKING REQUIRED		
SHOPPING CENTRE 3.6/100 S.M.		122 CARS
COVERAGE		25.8%

TURNER
FLEISCHER

Turner Fleischer Architects Inc.

67 Lesmill Road
Toronto, ON, M3B 2T8
T 416 425 2222
turnerfleischer.com

LEGEND

- PROPOSED ENTRANCE ARROW
- PROPOSED EXIT ARROW
- PROPOSED FIRE HYDRANT
- PROPOSED SIAMESE CONNECTION
- PROPOSED SIGN
- PROPOSED FIRE & TRUCK ROUTE (HEAVY DUTY ASPHALT)
- PROPOSED CONCRETE SIDEWALK

#	DATE	DESCRIPTION	BY
4	2023-03-09	ISSUED FOR COORDINATION	DEM
3	2023-03-07	ISSUED FOR COORDINATION	BSH
2	2022-12-21	ISSUED FOR COORDINATION	NFP
1	2022-10-26	ISSUED FOR REVIEW	NFP

Choice Properties REIT

PROJECT
CAMBRIAN RD (N. PARCEL)
BARRHAVEN, ONTARIO

DRAWING
SITE PLAN

PROJECT NO. 21.327SD
PROJECT DATE 2022-08-19
DRAWN BY BSH
CHECKED BY DEM
SCALE As indicated

DRAWING NO. A001
REV. 4

Appendix C – Tables

Phase Two Environmental Site Assessment

3850 Cambrian Road
Ottawa, Ontario

Choice Properties Limited Partnership

SLR Project No. 209.013940.00001

March 24, 2023

Table A - Sample Submission and Laboratory Analysis

Sample Details										Analysis																					
Borehole or Monitoring Well ID	Ground Surface Elevation (mASD)	Top of Pipe Elevation (mASD)	SLR Sample ID	Sample Collection Date	Top of Sample (mbgs)	Bottom of Sample (mbgs)	Screen Interval (mbgs)	Bureau Veritas Job ID	Bureau Veritas Sample ID		Soil PHCs	Soil VOCs	Soil PAHs	Soil Metals	Soil As, Sb, Se	Soil Cr (VI)	Soil Hg	Soil B-HWS	Soil pH	Soil Particle Size	Sampling System		Sample Collection Date	Water PHCs	Water VOCs	Water PAHs	Water Metals	Bureau Veritas Job ID	Bureau Veritas Sample ID	Comments
BH22-01	92.51	93.41	BH22-01-SS2	November 24, 2022	0.76	1.37	1.5 - 4.6	C2Y7796	UKM449	Soil	×	×	×	×	×	×	×	×	×		Judgmental	Water	December 06, 2022	×	×	×	×	C2Z8515	UMX461	Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site.
			DUP-003	November 24, 2022	0.76	1.37		C2Y7796	UKM452		×	×	×	×	×	×	×	×	×		Judgmental									Blind Field duplicate soil sample
			BH22-01-SS3	November 24, 2022	1.52	2.13		C2Y7796	UKM450		×	×	×	×	×	×	×	×	×		Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site. Groundwater sample collected to assess the potential environmental concerns associated with past uses of the Site.
BH22-04	93.68	94.55	BH22-04-SS2	November 23, 2022	0.76	1.37	1.5 - 4.6	C2Y6791	UKH204		×	×	×	×	×	×	×		×		Judgmental		December 06, 2022	×	×	×	×	C2Z8515	UMX458	Soil sample collected from suspected fill materials
			BH22-04-SS3A	November 23, 2022	1.52	2.13		C2Y6791	UKH205		×	×	×	×	×	×	×		×		Judgmental									Soil sample collected from suspected fill materials
			BH22-04-SS4	November 23, 2022	2.29	2.90		C2Y6791	UKH206		×	×	×	×	×	×	×		×	×	Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site and collected for grain size to confirm the site condition standards for use at the Site. Groundwater sample collected to assess the potential environmental concerns associated with past uses of the Site.
			DUP-001	N/A	N/A	N/A		N/A	N/A												N/A		December 06, 2022	×	×	×	×	C2Z8515	UMX462	Blind Field duplicate Groundwater sample
BH22-05	92.46	N/A	BH22-05-SS1	November 24, 2022	0.00	0.61	N/A	C2Y7796	UKM496		×	×	×	×	×	×	×	×	×		Judgmental									Soil sample collected from suspected fill materials
			BH22-05-SS2	November 24, 2022	0.76	1.37		C2Y7796	UKM497		×	×	×								Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site.
			BH22-05-SS3	November 24, 2022	1.52	2.13		C2Y7796	UKM498					×	×	×	×		×		Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site.
BH22-06	93.02	N/A	BH22-06-SS2	November 24, 2022	0.76	1.37	N/A	C2Y7796	UKM446		×	×	×	×	×	×	×	×	×		Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site.
			BH22-06-SS3	November 24, 2022	1.52	2.13		C2Y7796	UKM447		×	×	×	×	×	×	×		×		Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site.
BH22-09	93.22	N/A	BH22-09-SS1	November 24, 2022	0.30	0.91	N/A	C2Y7796	UKM499		×	×	×	×	×	×	×	×	×		Judgmental									Soil sample collected from suspected fill materials
			DUP-004	November 24, 2022	0.30	0.91		C2Y7796	UKM500		×	×	×	×	×	×	×	×	×		Judgmental									Blind Field duplicate soil sample
			BH22-09-SS3	November 24, 2022	1.52	2.13		C2Y7796	UKM501		×	×	×	×	×	×	×		×		Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site.
			BH22-09-SS4	November 24, 2022	2.29	2.90		C2Y7796	UKM502											×	Judgmental									Soil sample collected for grain size to confirm the site condition standards for use at the Site.
			BH22-09-SS5	November 24, 2022	3.05	3.66		C2Y7796	UKM503		×	×	×	×	×	×	×		×		Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site.
BH22-10	94.22	N/A	BH22-10-SS2	November 23, 2022	0.76	1.37	N/A	C2Y6791	UKH207		×	×	×	×	×	×	×	×	×		Judgmental									Soil sample collected from suspected fill materials
			DUP-001	November 23, 2022	0.76	1.37		C2Y6791	UKH210		×	×	×								Judgmental									Blind Field duplicate soil sample
			BH22-10-SS3A	November 23, 2022	1.52	2.13		C2Y6791	UKH208		×	×	×	×	×	×	×		×		Judgmental									Soil sample collected from suspected fill materials
BH22-12	92.55	93.47	BH22-12-SS1	November 24, 2022	0.00	0.61	1.5 - 4.6	C2Y7796	UKM453		×	×	×	×	×	×	×	×	×		Judgmental		December 06, 2022	×	×	×	aaa	C2Z8515	UMX460	Soil sample collected from suspected fill materials
			BH22-12-SS2	November 24, 2022	0.76	1.37		C2Y7796	UKM454		×	×	×	×	×	×	×	×	×		Judgmental									Soil sample collected from suspected fill materials
			BH22-12-SS3	November 24, 2022	1.52	2.13		C2Y7796	UKM495		×	×	×								Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site.
			BH22-12-SS4	November 24, 2022	2.29	2.90		C2Y7796	UKM455						×	×	×		×	×	Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site and collected for grain size to confirm the site condition standards for use at the Site. Groundwater sample collected to assess the potential environmental concerns associated with past uses of the Site.
BH22-13	92.95	N/A	BH22-13-SS1	November 23, 2022	0.20	0.61	N/A	C2Y6791	UKH216		×	×	×	×	×	×	×	×	×		Judgmental									Soil sample collected from suspected fill materials
			BH22-13-SS3	November 23, 2022	1.52	2.13		C2Y6791	UKH217		×	×	×	×	×	×	×		×		Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site.
BH22-14	94.39	95.25	BH22-14-SS2	November 23, 2022	0.76	1.37	1.5 - 4.6	C2Y6791	UKH211		×	×	×								Judgmental		December 06, 2022	×	×	×	×	C2Z8515	UMX459	Soil sample collected from suspected fill materials
			BH22-14-SS3	November 23, 2022	1.52	2.13		C2Y6791	UKH212					×	×	×	×		×		Judgmental									Soil sample collected from suspected fill materials
			DUP-002	November 23, 2022	1.52	2.13		C2Y6791	UKH215					×	×	×	×		×		Judgmental									Blind Field duplicate soil sample
			BH22-14-SS4	November 23, 2022	2.29	2.90		C2Y6791	UKH213		×	×	×	×	×	×	×		×		Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site.
			BH22-14-SS5	November 23, 2022	3.05	3.66		C2Y6791	UKH214		×	×	×	×	×	×	×		×		Judgmental									Soil sample collected from within the inferred groundwater table from a borehole to assess potential environmental concerns associated with past uses at the Site. Groundwater sample collected to assess the potential environmental concerns associated with past uses of the Site.
TRIP BLANK	N/A	N/A	Trip Blank	N/A	N/A	N/A	N/A	N/A	N/A												N/A		December 06, 2022		×			C2Z8515	UMX463	Quality assurance sample to ensure groundwater results meet data quality objectives

"X" - Sample submitted for laboratory analysis for specified parameter
APEC - Areas of potential environmental concern
PCA - Potentially Contaminating Activity
mbgs - Metres below ground surface
mASD - Metres above Site Datum
QA/QC - Quality Assurance/Quality Control

VOCs - Volatile Organic Compounds
BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes
PHCs - Petroleum Hydrocarbons
PHCF1 to F4 - Petroleum Hydrocarbon Fractions F1 to F4
PAHs - Polycyclic Aromatic Hydrocarbons
Metals - Inclusive of barium, copper, lead and zinc

As, Sb, Se - Arsenic, Antimony, Selenium (Metals, Hydride-Forming)
B-HWS - Boron, Hot Water Soluble
Hg - Mercury
Cr (VI) - Hexavalent Chromium

Table B - Water Levels and Monitoring Well Construction Details

Monitoring Well ID	UTM Coordinates		Ground Surface Elevation	Top of Pipe Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Screened Geology	Water Level Depth / Elevation (Monitoring Date)		Water Level Depth / Elevation (Monitoring Date)	
	UTM Zone: 18 T							28-Nov-22		6-Dec-22	
	Northing	Easting	mASD [1]	mASD [1]	mASD [1]	mASD [1]		mbgs	mASD [1]	mbgs	mASD [1]
BH22-01	5010786.70	441212.96	92.51	93.41	91.89	88.84	Silty Clay	0.59	91.92	0.19	92.31
BH22-04	5010825.07	441279.79	93.68	94.55	93.03	89.98	Sand / Silty Clay	2.54	91.14	2.03	91.65
BH22-12	5010859.78	441155.33	92.55	93.47	91.95	88.90	Sandy Silt / Silty Clay	0.54	92.01	0.27	92.27
BH22-14	5010907.13	441237.15	94.39	95.25	93.73	90.68	Sand / Silty Clay	2.85	91.55	2.40	92.00

Notes:

m - metres

mbgs - meters below ground surface

mASD - metres above Site Datum

[1]Elevations relative to geodetic site datum (northeast corner of sanitary manhole cover located at the southeast portion of the Site) having an elevation of 93.550 metres above Site datum as provided in the Plan of Survey completed by Annis O'Sullivan Vollebekk Ltd. dated October 21, 2022

TABLE C1: SOIL - PETROLEUM HYDROCARBONS

				Petroleum Hydrocarbons									
				Benzene	Toluene	Ethylbenzene	Xylene Mixture	Styrene	Methyl tert-Butyl Ether (MTBE)	Petroleum Hydrocarbons F1 (less BTEX)	Petroleum Hydrocarbons F2	Petroleum Hydrocarbons F3	Petroleum Hydrocarbons F4
				µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
Reported Detection Limit				0.006	0.02	0.01	0.02	0.04	0.04	10	10	50	50
ON Soil Table 3 I/C/C Non-Potable Coarse				0.32	68	9.5	26	34	11	55[#1]	230	1700	3300
Sample Location	Sample Date	Sample ID	Sample Depth (mbgs)										
BH22-04	2022-Nov-23	BH22-04-SS2	0.8 - 1.4	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-23	BH22-04-SS3A	1.5 - 2.1	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-23	BH22-04-SS4	2.3 - 2.9	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-10	2022-Nov-23	BH22-10-SS2	0.8 - 1.4	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-23	DUP-001		<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-23	BH22-10-SS3A	1.5 - 2.1	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-14	2022-Nov-23	BH22-14-SS2	0.8 - 1.4	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-23	BH22-14-SS4	2.3 - 2.9	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-23	BH22-14-SS5	3.0 - 3.7	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-13	2022-Nov-23	BH22-13-SS1	0.0 - 0.6	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	110	150
	2022-Nov-23	BH22-13-SS3	1.5 - 2.1	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-06	2022-Nov-24	BH22-06-SS2	0.8 - 1.4	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-24	BH22-06-SS3	1.5 - 2.1	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-01	2022-Nov-24	BH22-01-SS2	0.8 - 1.4	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-24	DUP-003		<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-24	BH22-01-SS3	1.5 - 2.1	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-12	2022-Nov-24	BH22-12-SS1	0.0 - 0.6	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-24	BH22-12-SS2	0.8 - 1.4	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-24	BH22-12-SS3	1.5 - 2.1	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-05	2022-Nov-24	BH22-05-SS1	0.0 - 0.6	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-24	BH22-05-SS2	0.8 - 1.4	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-09	2022-Nov-24	BH22-09-SS3	1.5 - 2.1	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-24	BH22-09-SS5	3.0 - 3.7	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-24	BH22-09-SS1	0.3 - 0.9	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
	2022-Nov-24	DUP-004		<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50

Standard/Guideline Descriptions

• ON Soil Table 3 I/C/C Non-Potable Coarse: Ontario MECP Soil Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial/Commercial/Community Property Use, Coarse Textured Soils

Standard/Guideline Comments

#1:F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result

Notes:

• formatting of cells indicates exceedances of like-formatted standards
• where many exceedance formats are used, highlighted results reflect the least stringent standard/guideline exceeded
• laboratory analytical reports detail detection limits, testing protocols and QA/QC procedures
• samples collected from the same location, date and depth interval are blind field duplicate/parent sample pairs

'-' - sample not analyzed for parameter indicated
< - less than reported detection limit
m - metres
mbgs - metres below ground surface
BTEX - benzene, toluene, ethylbenzene, xylenes
MTBE - methyl tert-butyl ether
µg/g - micrograms per gram
MECP - Ministry of the Environment, Conservation, and Parks
PHCs - Petroleum Hydrocarbons

TABLE C2: SOIL - VOLATILE ORGANIC COMPOUNDS

				VOCs																																			
				Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroform	Dibromochloromethane	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-	Dichlorobenzene, 1,4-	Dichlorodifluoromethane	Dichloroethane, 1,1-	Dichloroethane, 1,2-	Dichloroethylene, 1,1-	Dichloroethylene, 1,2-cis-	Dichloroethylene, 1,2-trans-	Dichloropropane, 1,2-	Dichloropropene, 1,3-	Dichloropropene, 1,3-cis-	Dichloropropene, 1,3-trans-	Ethylene dibromide	Hexane (n)	Methylene chloride	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone (MIK)	Tetrachloroethane, 1,1,1,2-	Tetrachloroethane, 1,1,2,2-	Tetrachloroethylene	Trichloroethane, 1,1,1-	Trichloroethane, 1,1,2-	Trichloroethylene	Trichlorofluoromethane	Vinyl chloride
				µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
Reported Detection Limit				0.49	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.049	0.04	0.04	0.04	0.04	0.05	0.03	0.04	0.04	0.04	0.049	0.4	0.4	0.04	0.04	0.04	0.04	0.04	0.01	0.04	0.019
ON Soil Table 3 I/C/C Non-Potable Coarse				16	18	0.61	0.05	0.21	2.4	0.47	13	6.8	9.6	0.2	16	17	0.05	0.064	55	1.3	0.16	0.18	ng	ng	0.05	46	1.6	70	31	0.087	0.05	4.5	6.1	0.05	0.91	4	0.032
Sample Location	Sample Date	Sample ID	Sample Depth (mbgs)																																				
BH22-04	2022-Nov-23	BH22-04-SS2	0.8 - 1.4	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-23	BH22-04-SS3A	1.5 - 2.1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-23	BH22-04-SS4	2.3 - 2.9	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-10	2022-Nov-23	BH22-10-SS2	0.8 - 1.4	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-23	DUP-001		<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-23	BH22-10-SS3A	1.5 - 2.1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-14	2022-Nov-23	BH22-14-SS2	0.8 - 1.4	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-23	BH22-14-SS4	2.3 - 2.9	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-23	BH22-14-SS5	3.0 - 3.7	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-13	2022-Nov-23	BH22-13-SS1	0.0 - 0.6	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-23	BH22-13-SS3	1.5 - 2.1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-06	2022-Nov-24	BH22-06-SS2	0.8 - 1.4	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-24	BH22-06-SS3	1.5 - 2.1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-01	2022-Nov-24	BH22-01-SS2	0.8 - 1.4	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-24	DUP-003		<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-24	BH22-01-SS3	1.5 - 2.1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-12	2022-Nov-24	BH22-12-SS1	0.0 - 0.6	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-24	BH22-12-SS2	0.8 - 1.4	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-24	BH22-12-SS3	1.5 - 2.1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-05	2022-Nov-24	BH22-05-SS1	0.0 - 0.6	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-24	BH22-05-SS2	0.8 - 1.4	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-09	2022-Nov-24	BH22-09-SS3	1.5 - 2.1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-24	BH22-09-SS5	3.0 - 3.7	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-24	BH22-09-SS1	0.3 - 0.9	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
	2022-Nov-24	DUP-004		<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019

Standard/Guideline Descriptions

- ON Soil Table 3 I/C/C Non-Potable Coarse: Ontario MECP Soil Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial/Commercial/Community Property Use, Coarse Textured Soils

Notes:

- formatting of cells indicates exceedances of like-formatted standards
- where many exceedance formats are used, highlighted results reflect the least stringent standard/guideline exceeded
- laboratory analytical reports detail detection limits, testing protocols and QA/QC procedures
- samples collected from the same location, date and depth interval are blind field duplicate/parent sample pairs

'-' - sample not analyzed for parameter indicated
< - less than reported detection limit
ng - no guideline listed
VOCs - volatile organic compounds
µg/g - micrograms per gram
MECP - Ministry of the Environment, Conservation, and Parks
m - metres
mbgs - metres below ground surface

TABLE C3: SOIL - POLYCYCLIC AROMATIC HYDROCARBONS

				PAHs																		
				Acenaphthylene	Acenaphthene	Anthracene	Benz[a]anthracene	Benzo[b/j]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Benzo[a]pyrene	Biphenyl 1,1'-	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Methylnaphthalene, 1-	Methylnaphthalene, 2-	Naphthalene	Phenanthrene	Pyrene
				µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
Reported Detection Limit				0.005	0.005	0.005	0.005	0.005	0.0050	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
ON Soil Table 3 I/C/C Non-Potable Coarse				0.15	96	0.67	0.96	0.96	9.6	0.96	0.3	52	9.6	0.1	9.6	62	0.76	76	76	9.6	12	96
Sample Location	Sample Date	Sample ID	Sample Depth (mbgs)																			
BH22-04	2022-Nov-23	BH22-04-SS2	0.8 - 1.4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-23	BH22-04-SS3A	1.5 - 2.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-23	BH22-04-SS4	2.3 - 2.9	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-10	2022-Nov-23	BH22-10-SS2	0.8 - 1.4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-23	DUP-001		<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-23	BH22-10-SS3A	1.5 - 2.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-14	2022-Nov-23	BH22-14-SS2	0.8 - 1.4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-23	BH22-14-SS4	2.3 - 2.9	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-23	BH22-14-SS5	3.0 - 3.7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-13	2022-Nov-23	BH22-13-SS1	0.0 - 0.6	<0.005	<0.005	<0.005	<0.005	<0.005	0.0079	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007
	2022-Nov-23	BH22-13-SS3	1.5 - 2.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-06	2022-Nov-24	BH22-06-SS2	0.8 - 1.4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-24	BH22-06-SS3	1.5 - 2.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-01	2022-Nov-24	BH22-01-SS2	0.8 - 1.4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-24	DUP-003		<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-24	BH22-01-SS3	1.5 - 2.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-12	2022-Nov-24	BH22-12-SS1	0.0 - 0.6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-24	BH22-12-SS2	0.8 - 1.4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-24	BH22-12-SS3	1.5 - 2.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-05	2022-Nov-24	BH22-05-SS1	0.0 - 0.6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-24	BH22-05-SS2	0.8 - 1.4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-09	2022-Nov-24	BH22-09-SS3	1.5 - 2.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-24	BH22-09-SS5	3.0 - 3.7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	2022-Nov-24	BH22-09-SS1	0.3 - 0.9	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.026
	2022-Nov-24	DUP-004		<0.005	<0.005	<0.005	<0.005	<0.005	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Standard/Guideline Descriptions
- ON Soil Table 3 I/C/C Non-Potable Coarse: Ontario MECP Soil Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial/Commercial/Community Property Use, Coarse Textured Soils

Notes:
- formatting of cells indicates exceedances of like-formatted standards
- where many exceedance formats are used, highlighted results reflect the least stringent standard/guideline exceeded
- laboratory analytical reports detail detection limits, testing protocols and QA/QC procedures
- samples collected from the same location, date and depth interval are blind field duplicate/parent sample pairs

'-' - sample not analyzed for parameter indicated
< - less than reported detection limit
PAH - polycyclic aromatic hydrocarbons
µg/g - micrograms per gram
MECP - Ministry of the Environment, Conservation, and Parks
m - metres
mbgs - metres below ground surface

TABLE C4: SOIL - METALS AND pH

				Metals																					
				pH (Lab)	Boron (Hot water soluble)	Chromium VI	Mercury	Silver	Antimony	Arsenic	Barium	Beryllium	Boron (Total)	Cadmium	Chromium Total	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Thallium	Uranium	Vanadium	Zinc
				pH Units	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
Reported Detection Limit					0.050	0.18	0.05	0.2	0.2	1	0.5	0.20	5	0.10	1	0.1	0.5	1	0.50	0.5	0.5	0.050	0.05	5	5
ON Soil Table 3 I/C/C Non-Potable Coarse				5-9[#1]	2	8	3.9	40	40	18	670	8	120	1.9	160	80	230	120	40	270	5.5	3.3	33	86	340
Sample Location	Sample Date	Sample ID	Sample Depth (mbg)																						
BH22-04	2022-Nov-23	BH22-04-SS2	0.8 - 1.4	7.79	0.083	<0.18	<0.05	<0.2	<0.2	1.5	63	0.33	5.3	<0.10	16	6.9	15	4.9	0.57	12	<0.5	0.12	0.53	26	25
	2022-Nov-23	BH22-04-SS3A	1.5 - 2.1	7.75	-	<0.18	<0.05	<0.2	<0.2	1.3	70	0.36	5.5	<0.10	17	5.8	15	5.2	0.75	12	<0.5	0.14	0.50	27	25
	2022-Nov-23	BH22-04-SS4	2.3 - 2.9	7.65	-	<0.18	<0.05	<0.2	<0.2	1.7	78	0.27	<5	<0.10	17	5.6	10	3.1	<0.50	10	<0.5	0.083	0.65	30	27
BH22-10	2022-Nov-23	BH22-10-SS2	0.8 - 1.4	7.97	<0.050	<0.18	<0.05	<0.2	<0.2	<1	12	<0.20	<5	<0.10	7.5	4.0	8.5	2.3	<0.50	6.3	<0.5	0.056	0.36	17	9.7
	2022-Nov-23	BH22-10-SS3A	1.5 - 2.1	7.81	-	<0.18	<0.05	<0.2	<0.2	<1	14	<0.20	<5	<0.10	8.6	4.6	9.8	2.5	<0.50	7.9	<0.5	0.065	0.34	17	12
BH22-14	2022-Nov-23	BH22-14-SS3	1.5 - 2.1	7.49	-	<0.18	<0.05	<0.2	<0.2	1.3	140	0.49	<5	<0.10	26	8.1	18	6.5	0.57	16	<0.5	0.18	0.56	37	37
	2022-Nov-23	DUP-002		7.58	-	<0.18	<0.05	<0.2	<0.2	1.3	44	0.27	5.8	<0.10	12	5.5	12	5.9	0.54	10	<0.5	0.16	0.47	22	20
	2022-Nov-23	BH22-14-SS4	2.3 - 2.9	7.65	-	<0.18	<0.05	<0.2	<0.2	<1	50	0.24	<5	<0.10	16	4.3	9.0	2.6	<0.50	8.8	<0.5	0.075	0.65	26	21
	2022-Nov-23	BH22-14-SS5	3.0 - 3.7	7.54	-	<0.18	<0.05	<0.2	<0.2	<1	66	0.26	<5	<0.10	16	5.1	9.7	3	<0.50	10	<0.5	0.080	0.50	28	26
BH22-13	2022-Nov-23	BH22-13-SS1	0.0 - 0.6	7.62	0.35	<0.18	<0.05	<0.2	<0.2	1.5	170	0.45	6.3	<0.10	31	9.7	19	7.5	0.89	20	<0.5	0.21	0.73	43	48
	2022-Nov-23	BH22-13-SS3	1.5 - 2.1	7.64	-	<0.18	<0.05	<0.2	<0.2	1.1	87	0.29	5.3	<0.10	19	6.1	10	3.5	<0.50	11	<0.5	0.096	0.62	32	31
BH22-06	2022-Nov-24	BH22-06-SS2	0.8 - 1.4	7.53	0.31	<0.18	<0.05	<0.2	<0.2	1.1	140	0.39	5.2	<0.10	32	8.0	15	3.7	0.63	18	<0.5	0.12	0.91	43	39
	2022-Nov-24	BH22-06-SS3	1.5 - 2.1	7.75	-	<0.18	<0.05	<0.2	<0.2	2.2	82	0.29	5	<0.10	19	6.2	14	3.4	0.90	12	<0.5	0.094	0.65	34	30
BH22-01	2022-Nov-24	BH22-01-SS2	0.8 - 1.4	7.38	0.39	<0.18	<0.05	<0.2	<0.2	1.5	72	0.27	5.4	<0.10	19	5.3	10	3	<0.50	11	<0.5	0.077	0.54	30	26
	2022-Nov-24	DUP-003		7.62	0.47	<0.18	<0.05	<0.2	<0.2	1.2	110	0.36	6.4	<0.10	25	6.9	14	4	0.53	15	<0.5	0.12	0.56	39	40
	2022-Nov-24	BH22-01-SS3	1.5 - 2.1	7.53	-	<0.18	<0.05	<0.2	<0.2	2.7	120	0.37	6	<0.10	20	6.8	13	3.5	<0.50	12	<0.5	0.11	0.63	34	32
BH22-12	2022-Nov-24	BH22-12-SS1	0.0 - 0.6	7.41	0.92	<0.18	<0.05	<0.2	<0.2	1.5	150	0.36	6.6	0.21	28	6.5	16	5.9	0.54	16	<0.5	0.12	0.94	37	38
	2022-Nov-24	BH22-12-SS2	0.8 - 1.4	7.62	0.17	<0.18	<0.05	<0.2	<0.2	1.3	50	0.23	<5	<0.10	16	5.0	8.9	2.3	<0.50	9.3	<0.5	0.068	0.49	26	19
	2022-Nov-24	BH22-12-SS4	2.3 - 2.9	7.85	-	<0.18	<0.05	<0.2	<0.2	2.1	120	0.38	7.9	<0.10	24	8.2	16	4.2	0.51	15	<0.5	0.12	0.69	37	38
BH22-05	2022-Nov-24	BH22-05-SS1	0.0 - 0.6	7.73	0.30	<0.18	<0.05	<0.2	<0.2	1.5	110	0.36	5.3	<0.10	31	8.4	17	4.2	1.4	18	<0.5	0.15	0.66	42	40
	2022-Nov-24	BH22-05-SS3	1.5 - 2.1	7.69	-	<0.18	<0.05	<0.2	<0.2	3.1	84	0.30	5.2	<0.10	17	5.0	14	3.1	<0.50	11	<0.5	0.078	0.62	29	25
BH22-09	2022-Nov-24	BH22-09-SS3	1.5 - 2.1	7.73	-	<0.18	<0.05	<0.2	<0.2	1.1	58	0.27	<5	<0.10	19	5.7	11	2.6	<0.50	11	<0.5	0.070	0.64	32	22
	2022-Nov-24	BH22-09-SS5	3.0 - 3.7	7.88	-	<0.18	-	<0.2	<0.2	2.3	140	0.50	11	<0.10	29	9.5	19	5.5	0.59	19	<0.5	0.18	0.76	44	51
	2022-Nov-24	BH22-09-SS1	0.3 - 0.9	7.64	0.26	<0.18	<0.05	<0.2	<0.2	1.1	88	0.30	<5	<0.10	22	5.5	13	3.5	0.54	12	<0.5	0.099	0.61	32	29
	2022-Nov-24	DUP-004	0.3 - 0.9	7.6	0.58	<0.18	<0.05	<0.2	<0.2	1.7	140	0.34	7.4	0.14	24	6.9	18	5.9	0.70	15	<0.5	0.12	1.1	34	46

Standard/Guideline Descriptions

- ON Soil Table 3 I/C/C Non-Potable Coarse: Ontario MECP Soil Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial/Commercial/Community Property Use, Coarse Textured Soils

Standard/Guideline Comments

#1:The acceptable pH range for surface soils (≤1.5 mbgs) is 5-9 and subsurface soils (>1.5 mbgs) is 5-11. If pH value is outside the range, the MECP Table 1 Background Standards may have to be used as the site is considered environmentally

Notes:

- formatting of cells indicates exceedances of like-formatted standards
- where many exceedance formats are used, highlighted results reflect the least stringent standard/guideline exceeded
- laboratory analytical reports detail detection limits, testing protocols and QA/QC procedures
- samples collected from the same location, date and depth interval are blind field duplicate/parent sample pairs

'-' - sample not analyzed for parameter indicated
< - less than reported detection limit
µg/g - micrograms per gram
MECP - Ministry of the Environment, Conservation, and Parks
m - metres
mbgs - metres below ground surface

TABLE D1: GROUNDWATER - PETROLEUM HYDROCARBONS

			Petroleum Hydrocarbons									
			Benzene	Toluene	Ethylbenzene	Xylene Mixture	Styrene	Methyl tert-Butyl Ether (MTBE)	Petroleum Hydrocarbons F1 (less BTEX)	Petroleum Hydrocarbons F2	Petroleum Hydrocarbons F3	Petroleum Hydrocarbons F4
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Reported Detection Limit			0.17	0.2	0.2	0.2	0.4	0.5	25	100	200	200
ON GW Table 3 Non-Potable Coarse			44	18000	2300	4200	1300	190	750[#1]	150	500	500
Sample Location	Sample Date	Sample ID										
BH22-01	2022-Dec-6	BH22-01	<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200
BH22-04	2022-Dec-6	DUP-001	<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200
		BH22-04	<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200
BH22-12	2022-Dec-6	BH22-12	<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200
BH22-14	2022-Dec-6	BH22-14	<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200

Standard/Guideline Descriptions

• ON GW Table 3 Non-Potable Coarse: Ontario Groundwater Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Coarse Textured Soils

Standard/Guideline Comments

#1:F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result

Notes:

• formatting of cells indicates exceedances of like-formatted standards

• where many exceedance formats are used, highlighted results reflect the least stringent standard/guideline exceeded

• samples collected at the same location and date are blind field duplicate/parent pairs

'-' - sample not analyzed for parameter indicated

< - less than reported detection limit

µg/L - micrograms per litre

BTEX - benzene, toluene, ethylbenzene, xylenes

MTBE - methyl tert-butyl ether

MECP - Ministry of the Environment, Conservation, and Parks

PHCs - Petroleum Hydrocarbons

TABLE D2: GROUNDWATER - VOLATILE ORGANIC COMPOUNDS

			VOCs																																		
			Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroform	Dibromochloromethane	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-	Dichlorobenzene, 1,4-	Dichlorodifluoromethane	Dichloroethane, 1,1-	Dichloroethane, 1,2-	Dichloroethylene, 1,1-	Dichloroethylene, 1,2-cis-	Dichloroethylene, 1,2-trans-	Dichloropropane, 1,2-	Dichloropropene, 1,3-	Dichloropropene, 1,3-cis-	Dichloropropene, 1,3-trans-	Ethylene dibromide	Hexane (n)	Methylene chloride	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone (MIK)	Tetrachloroethane, 1,1,1,2-	Tetrachloroethane, 1,1,2,2-	Tetrachloroethylene	Trichloroethane, 1,1,1-	Trichloroethane, 1,1,2-	Trichloroethylene	Trichlorofluoromethane	Vinyl chloride
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Reported Detection Limit			10	0.5	1	0.5	0.19	0.2	0.2	0.5	0.4	0.4	0.4	1	0.2	0.49	0.2	0.5	0.5	0.2	0.5	0.3	0.4	0.19	1	2	10	5	0.5	0.4	0.2	0.2	0.4	0.2	0.5	0.2
ON GW Table 3 Non-Potable Coarse			130000	85000	380	5.6	0.79	630	2.4	82000	4600	9600	8	4400	320	1.6	1.6	1.6	1.6	16	5.2	ng	ng	0.25	51	610	470000	140000	3.3	3.2	1.6	640	4.7	1.6	2500	0.5
Sample Location	Sample Date	Sample ID																																			
BH22-01	2022-Dec-6	BH22-01	<10	<0.5	<1	<0.5	<0.20	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.50	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.20	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2
BH22-04	2022-Dec-6	DUP-001	<10	<0.5	<1	<0.5	<0.20	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.50	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.20	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2
		BH22-04	<10	<0.5	<1	<0.5	<0.20	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.50	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.20	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2
BH22-12	2022-Dec-6	BH22-12	<10	<0.5	<1	<0.5	<0.20	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.50	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.20	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2
BH22-14	2022-Dec-6	BH22-14	<10	<0.5	<1	<0.5	<0.20	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.50	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.20	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2

Standard/ Guideline Descriptions

- ON GW Table 3 Non-Potable Coarse: Ontario Groundwater Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Coarse Textured Soils

Notes:

- formatting of cells indicates exceedances of like-formatted standards
- where many exceedance formats are used, highlighted results reflect the least stringent standard/guideline exceeded
- samples collected at the same location and date are blind field duplicate/parent pairs

'-' - sample not analyzed for parameter indicated
< - less than reported detection limit
ng - no guideline listed
µg/L - micrograms per litre
VOCs - volatile organic compounds
MECP - Ministry of the Environment, Conservation, and Parks

TABLE D3: GROUNDWATER - POLYCYCLIC AROMATIC HYDROCARBONS

			PAHs																	
			Acenaphthylene	Acenaphthene	Anthracene	Benz[a]anthracene	Benzo[b/j]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Benzo[a]pyrene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Methylnaphthalene, 1-	Methylnaphthalene, 2-	Methylnaphthalene, 2-(1-)	Naphthalene	Phenanthrene	Pyrene
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Reported Detection Limit			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.009	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.071	0.05	0.03	0.05
ON GW Table 3 Non-Potable Coarse			1.8	600	2.4	4.7	ng	0.2	0.4	0.81	1	0.52	130	400	0.2	1800	1800	1800	1400	580	68
Sample Location	Sample Date	Sample ID																			
BH22-01	2022-Dec-6	BH22-01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.009	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05
BH22-04	2022-Dec-6	DUP-001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.009	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05
		BH22-04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.009	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05
BH22-12	2022-Dec-6	BH22-12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.009	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05
BH22-14	2022-Dec-6	BH22-14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.009	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05

Standard/Guideline Descriptions

- ON GW Table 3 Non-Potable Coarse: Ontario Groundwater Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Coarse Textured Soils

Notes:

- formatting of cells indicates exceedances of like-formatted standards
- where many exceedance formats are used, highlighted results reflect the least stringent standard/guideline exceeded
- samples collected at the same location and date are blind field duplicate/parent pairs

'-' - sample not analyzed for parameter indicated
< - less than reported detection limit
ng - no guideline listed
µg/L - micrograms per litre
PAH - polycyclic aromatic hydrocarbons
MECP - Ministry of the Environment, Conservation, and Parks

TABLE D4: GROUNDWATER - METALS

			Metals																			
			Chromium VI	Mercury	Silver (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)	Boron (Total) (Filtered)	Cadmium (Filtered)	Chromium Total (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Lead (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Selenium (Filtered)	Sodium (Filtered)	Thallium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Reported Detection Limit			0.5	0.1	0.09	0.50	1	2	0.4	10	0.09	5	0.5	0.9	0.5	0.5	1	2	0.1	0.050	0.1	0.50	5
ON GW Table 3 Non-Potable Coarse			140	0.29	1.5	20000	1900	29000	67	45000	2.7	810	66	87	25	9200	490	63	2300	510	420	250	1100
Sample Location	Sample Date	Sample ID																					
BH22-01	2022-Dec-6	BH22-01	<0.5	<0.1	<0.09	<0.50	1.1	55	<0.4	850	<0.09	<5	8.7	11	<0.5	2.5	12	<2	270	<0.050	20	0.83	9.4
BH22-04	2022-Dec-6	DUP-001	<0.5	<0.1	<0.09	<0.50	1.5	62	<0.4	670	0.13	<5	3.4	5.2	<0.5	3.4	8.6	<2	150	0.080	12	1.0	5.4
		BH22-04	<0.5	<0.1	<0.09	<0.50	2	79	<0.4	730	0.11	<5	3.0	6.9	<0.5	3.4	8.4	<2	160	0.092	11	1.1	6.3
BH22-12	2022-Dec-6	BH22-12	<0.5	<0.1	<0.09	<0.50	2.6	91	<0.4	720	0.10	<5	4.4	15	<0.5	2.3	6.8	<2	210	<0.050	12	0.81	8.7
BH22-14	2022-Dec-6	BH22-14	0.7	<0.1	<0.09	0.62	1.3	95	<0.4	160	<0.09	<5	<0.5	4.3	<0.5	23	2.4	<2	160	<0.050	17	0.79	<5

Standard/Guideline Descriptions

- ON GW Table 3 Non-Potable Coarse: Ontario Groundwater Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Coarse Textured Soils

Notes:

- formatting of cells indicates exceedances of like-formatted standards
- where many exceedance formats are used, highlighted results reflect the least stringent standard/guideline exceeded
- samples collected at the same location and date are blind field duplicate/parent pairs

'-' - sample not analyzed for parameter indicated
< - less than reported detection limit
µg/L - micrograms per litre
MECP - Ministry of the Environment, Conservation, and Parks

Petroleum Hydrocarbons

Location_Code	Field_ID	Sampled_Date_Time	Benzene	Toluene	Ethylbenzene	Xylene Mixture	Styrene	Methyl tert-Butyl Ether (MTBE)	Petroleum Hydrocarbons F1 (less BTEX)	Petroleum Hydrocarbons F2	Petroleum Hydrocarbons F3	Petroleum Hydrocarbons F4
			µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
EQL			0.006	0.02	0.01	0.02	0.04	0.04	10	10	50	50
ON Soil Table 3 I/C/C Non-Potable Coarse			0.32	68	9.5	26	34	11	55[#1]	230	1700	3300
MAXIMUM CONCENTRATION (µg/g)			<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	110	150
BH22-10	DUP-001	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-14	DUP-002	11/23/2022	-	-	-	-	-	-	-	-	-	-
BH22-04	BH22-04-SS2	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-04	BH22-04-SS3A	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-04	BH22-04-SS4	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-10	BH22-10-SS2	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-10	BH22-10-SS3A	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-14	BH22-14-SS2	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-14	BH22-14-SS3	11/23/2022	-	-	-	-	-	-	-	-	-	-
BH22-14	BH22-14-SS4	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-14	BH22-14-SS5	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-13	BH22-13-SS1	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	**110**	**150**
BH22-13	BH22-13-SS3	11/23/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-01	DUP-003	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-09	DUP-004	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-06	BH22-06-SS2	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-06	BH22-06-SS3	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-01	BH22-01-SS2	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-01	BH22-01-SS3	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-12	BH22-12-SS1	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-12	BH22-12-SS2	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-12	BH22-12-SS3	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-12	BH22-12-SS4	11/24/2022	-	-	-	-	-	-	-	-	-	-
BH22-05	BH22-05-SS1	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-05	BH22-05-SS2	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-05	BH22-05-SS3	11/24/2022	-	-	-	-	-	-	-	-	-	-
BH22-09	BH22-09-SS3	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-09	BH22-09-SS4	11/24/2022	-	-	-	-	-	-	-	-	-	-
BH22-09	BH22-09-SS5	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50
BH22-09	BH22-09-SS1	11/24/2022	<0.006	<0.02	<0.01	<0.02	<0.04	<0.04	<10	<10	<50	<50

VOCs

Location_Code	Field_ID	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroform	Dibromochloromethane	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-	Dichlorobenzene, 1,4-	Dichlorodifluoromethane	Dichloroethane, 1,1-	Dichloroethane, 1,2-	Dichloroethylene, 1,1-	Dichloroethylene, 1,2-cis-	Dichloroethylene, 1,2-trans-	Dichloropropane, 1,2-	Dichloropropene, 1,3-	Dichloropropene, 1,3-cis-	Dichloropropene, 1,3-trans-	Ethylene dibromide	Hexane (n)	Methylene chloride	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone (MIK)	Tetrachloroethane, 1,1,1,2-	Tetrachloroethane, 1,1,2,2-	Tetrachloroethylene	Trichloroethane, 1,1,1-	Trichloroethane, 1,1,2-	Trichloroethylene	Trichlorofluoromethane	Vinyl chloride
		µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
EQL		0.49	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.049	0.04	0.04	0.04	0.04	0.05	0.03	0.04	0.04	0.04	0.049	0.4	0.4	0.04	0.04	0.04	0.04	0.04	0.01	0.04	0.019
ON Soil Table 3 I/C/C Non-Potable Coarse		16	18	0.61	0.05	0.21	2.4	0.47	13	6.8	9.6	0.2	16	17	0.05	0.064	55	1.3	0.16	0.18			0.05	46	1.6	70	31	0.087	0.05	4.5	6.1	0.05	0.91	4	0.032
MAXIMUM CONCENTRATION (µg/g)		<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-10	DUP-001	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-14	DUP-002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-04	BH22-04-SS2	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-04	BH22-04-SS3A	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-04	BH22-04-SS4	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-10	BH22-10-SS2	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-10	BH22-10-SS3A	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-14	BH22-14-SS2	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-14	BH22-14-SS3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-14	BH22-14-SS4	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-14	BH22-14-SS5	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-13	BH22-13-SS1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-13	BH22-13-SS3	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-01	DUP-003	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-09	DUP-004	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-06	BH22-06-SS2	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-06	BH22-06-SS3	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-01	BH22-01-SS2	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-01	BH22-01-SS3	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-12	BH22-12-SS1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-12	BH22-12-SS2	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-12	BH22-12-SS3	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-12	BH22-12-SS4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-05	BH22-05-SS1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-05	BH22-05-SS2	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-05	BH22-05-SS3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-09	BH22-09-SS3	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-09	BH22-09-SS4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-09	BH22-09-SS5	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019
BH22-09	BH22-09-SS1	<0.49	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.049	<0.04	<0.04	<0.04	<0.04	<0.05	<0.03	<0.04	<0.04	<0.04	<0.049	<0.4	<0.4	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.019

PAHs

Location_Code	Field_ID	Acenaphthylene	Acenaphthene	Anthracene	Benz[a]anthracene	Benzo[b/j]fluoranthene	Benzo[g h i]perylene	Benzo[k]fluoranthene	Benzo[a]pyrene	Biphenyl 1,1'-	Chrysene	Dibenz[a h]anthracene	Fluoranthene	Fluorene	Indeno[1 2 3-cd]pyrene	Methylnaphthalene, 1-	Methylnaphthalene, 2-	Methylnaphthalene, 1-+2-	Naphthalene	Phenanthrene	Pyrene
		µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
EQL		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
ON Soil Table 3 I/C/C Non-Potable Coarse		0.15	96	0.67	0.96	9.6	0.96	0.3	52	9.6	0.1	9.6	62	0.76	76	76	76	76	9.6	12	96
MAXIMUM CONCENTRATION (µg/g)		<0.005	<0.005	<0.005	<0.005	<0.005	0.0079	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.026
BH22-10	DUP-001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-14	DUP-002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-04	BH22-04-SS2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-04	BH22-04-SS3A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-04	BH22-04-SS4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-10	BH22-10-SS2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-10	BH22-10-SS3A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-14	BH22-14-SS2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-14	BH22-14-SS3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-14	BH22-14-SS4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-14	BH22-14-SS5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-13	BH22-13-SS1	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0079**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007
BH22-13	BH22-13-SS3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-01	DUP-003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-09	DUP-004	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-06	BH22-06-SS2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-06	BH22-06-SS3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-01	BH22-01-SS2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-01	BH22-01-SS3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-12	BH22-12-SS1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-12	BH22-12-SS2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-12	BH22-12-SS3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-12	BH22-12-SS4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-05	BH22-05-SS1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-05	BH22-05-SS2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-05	BH22-05-SS3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-09	BH22-09-SS3	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-09	BH22-09-SS4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-09	BH22-09-SS5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BH22-09	BH22-09-SS1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.026**

Metals

Location_Code	Field_ID	pH (Lab)	Boron (Hot water soluble)	Chromium VI	Mercury	Silver	Antimony	Arsenic	Barium	Beryllium	Boron (Total)	Cadmium	Chromium Total	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Thallium	Uranium	Vanadium	Zinc
		pH Units	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
EQL			0.05	0.18	0.05	0.2	0.2	1	0.5	0.2	5	0.1	1	0.1	0.5	1	0.5	0.5	0.5	0.05	0.05	5	5
ON Soil Table 3 I/C/C Non-Potable Coarse		5-9[#2]	2	8	3.9	40	40	18	670	8	120	1.9	160	80	230	120	40	270	5.5	3.3	33	86	340
MAXIMUM CONCENTRATION (µg/g)		7.97	0.92	<0.18	<0.05	<0.2	<0.2	3.1	170	0.5	11	0.21	32	9.7	19	7.5	1.4	20	<0.5	0.21	1.1	44	51
BH22-10	DUP-001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-14	DUP-002	7.58	-	<0.18	<0.05	<0.2	<0.2	1.3	44	0.27	5.8	<0.1	12	5.5	12	5.9	0.54	10	<0.5	0.16	0.47	22	20
BH22-04	BH22-04-SS2	7.79	0.083	<0.18	<0.05	<0.2	<0.2	1.5	63	0.33	5.3	<0.1	16	6.9	15	4.9	0.57	12	<0.5	0.12	0.53	26	25
BH22-04	BH22-04-SS3A	7.75	-	<0.18	<0.05	<0.2	<0.2	1.3	70	0.36	5.5	<0.1	17	5.8	15	5.2	0.75	12	<0.5	0.14	0.5	27	25
BH22-04	BH22-04-SS4	7.65	-	<0.18	<0.05	<0.2	<0.2	1.7	78	0.27	<5	<0.1	17	5.6	10	3.1	<0.5	10	<0.5	0.083	0.65	30	27
BH22-10	BH22-10-SS2	**7.97**	<0.05	<0.18	<0.05	<0.2	<0.2	<1	12	<0.2	<5	<0.1	7.5	4	8.5	2.3	<0.5	6.3	<0.5	0.056	0.36	17	9.7
BH22-10	BH22-10-SS3A	7.81	-	<0.18	<0.05	<0.2	<0.2	<1	14	<0.2	<5	<0.1	8.6	4.6	9.8	2.5	<0.5	7.9	<0.5	0.065	0.34	17	12
BH22-14	BH22-14-SS2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-14	BH22-14-SS3	7.49	-	<0.18	<0.05	<0.2	<0.2	1.3	140	0.49	<5	<0.1	26	8.1	18	6.5	0.57	16	<0.5	0.18	0.56	37	37
BH22-14	BH22-14-SS4	7.65	-	<0.18	<0.05	<0.2	<0.2	<1	50	0.24	<5	<0.1	16	4.3	9	2.6	<0.5	8.8	<0.5	0.075	0.65	26	21
BH22-14	BH22-14-SS5	7.54	-	<0.18	<0.05	<0.2	<0.2	<1	66	0.26	<5	<0.1	16	5.1	9.7	3	<0.5	10	<0.5	0.08	0.5	28	26
BH22-13	BH22-13-SS1	7.62	0.35	<0.18	<0.05	<0.2	<0.2	1.5	**170**	0.45	6.3	<0.1	31	**9.7**	**19**	**7.5**	0.89	**20**	<0.5	**0.21**	0.73	43	48
BH22-13	BH22-13-SS3	7.64	-	<0.18	<0.05	<0.2	<0.2	1.1	87	0.29	5.3	<0.1	19	6.1	10	3.5	<0.5	11	<0.5	0.096	0.62	32	31
BH22-01	DUP-003	7.62	0.47	<0.18	<0.05	<0.2	<0.2	1.2	110	0.36	6.4	<0.1	25	6.9	14	4	0.53	15	<0.5	0.12	0.56	39	40
BH22-09	DUP-004	7.60	0.58	<0.18	<0.05	<0.2	<0.2	1.7	140	0.34	7.4	0.14	24	6.9	18	5.9	0.7	15	<0.5	0.12	**1.1**	34	46
BH22-06	BH22-06-SS2	7.53	0.31	<0.18	<0.05	<0.2	<0.2	1.1	140	0.39	5.2	<0.1	**32**	8	15	3.7	0.63	18	<0.5	0.12	0.91	43	39
BH22-06	BH22-06-SS3	7.75	-	<0.18	<0.05	<0.2	<0.2	2.2	82	0.29	5	<0.1	19	6.2	14	3.4	0.9	12	<0.5	0.094	0.65	34	30
BH22-01	BH22-01-SS2	7.38	0.39	<0.18	<0.05	<0.2	<0.2	1.5	72	0.27	5.4	<0.1	19	5.3	10	3	<0.5	11	<0.5	0.077	0.54	30	26
BH22-01	BH22-01-SS3	7.53	-	<0.18	<0.05	<0.2	<0.2	2.7	120	0.37	6	<0.1	20	6.8	13	3.5	<0.5	12	<0.5	0.11	0.63	34	32
BH22-12	BH22-12-SS1	7.41	**0.92**	<0.18	<0.05	<0.2	<0.2	1.5	150	0.36	6.6	**0.21**	28	6.5	16	5.9	0.54	16	<0.5	0.12	0.94	37	38
BH22-12	BH22-12-SS2	7.62	0.17	<0.18	<0.05	<0.2	<0.2	1.3	50	0.23	<5	<0.1	16	5	8.9	2.3	<0.5	9.3	<0.5	0.068	0.49	26	19
BH22-12	BH22-12-SS3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-12	BH22-12-SS4	7.85	-	<0.18	<0.05	<0.2	<0.2	2.1	120	0.38	7.9	<0.1	24	8.2	16	4.2	0.51	15	<0.5	0.12	0.69	37	38
BH22-05	BH22-05-SS1	7.73	0.3	<0.18	<0.05	<0.2	<0.2	1.5	110	0.36	5.3	<0.1	31	8.4	17	4.2	**1.4**	18	<0.5	0.15	0.66	42	40
BH22-05	BH22-05-SS2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-05	BH22-05-SS3	7.69	-	<0.18	<0.05	<0.2	<0.2	**3.1**	84	0.3	5.2	<0.1	17	5	14	3.1	<0.5	11	<0.5	0.078	0.62	29	25
BH22-09	BH22-09-SS3	7.73	-	<0.18	<0.05	<0.2	<0.2	1.1	58	0.27	<5	<0.1	19	5.7	11	2.6	<0.5	11	<0.5	0.07	0.64	32	22
BH22-09	BH22-09-SS4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH22-09	BH22-09-SS5	7.88	-	<0.18	-	<0.2	<0.2	2.3	140	**0.5**	**11**	<0.1	29	9.5	**19**	5.5	0.59	19	<0.5	0.18	0.76	**44**	**51**
BH22-09	BH22-09-SS1	7.64	0.26	<0.18	<0.05	<0.2	<0.2	1.1	88	0.3	<5	<0.1	22	5.5	13	3.5	0.54	12	<0.5	0.099	0.61	32	29

HIGHLIGHTED / BOLD - Denotes Maximum Concentration locations for detectable concentrations. All other maximum concentrations identified at all Sampling Locations

Env Stds Description

ON Soil Table 3 I/C/C Non-Potable Coarse:Ontario Soil Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial/Commercial/Community Property Use, Coarse Textured Soils

Env Stds Comments

#1:F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result

#2:The acceptable pH range for surface soils (≤1.5 mbgs) is 5-9 and subsurface soils (>1.5 mbgs) is 5-11. If pH value is outside the range, the MECP Table 1 Background Standards may have to be used as the site is considered environmentally sensitive.

Location_Code	Field_ID	Sampled_Date_Time	Benzene	Toluene	Ethylbenzene	Xylene Mixture	Styrene	Methyl tert-Butyl Ether (MTBE)	Petroleum Hydrocarbons F1 (less BTEX)	Petroleum Hydrocarbons F2	Petroleum Hydrocarbons F3	Petroleum Hydrocarbons F4
			Petroleum Hydrocarbons									
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.17	0.2	0.2	0.2	0.4	0.5	25	100	200	200
ON GW Table 3 Non-Potable Coarse			44	18000	2300	4200	1300	190	750[#1]	150	500	500
MAXIMUM CONCENTRATION (µg/g)			<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200
BH22-01	BH22-01	12/6/2022	<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200
BH22-04	DUP-001	12/6/2022	<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200
BH22-04	BH22-04	12/6/2022	<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200
BH22-12	BH22-12	12/6/2022	<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200
BH22-14	BH22-14	12/6/2022	<0.17	<0.2	<0.2	<0.2	<0.5	<0.5	<25	<100	<200	<200

Location_Code	Field_ID	Sampled_Date_Time	Acetone	Bromodichloromethane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroform	Dibromochloromethane	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-	Dichlorobenzene, 1,4-	Dichlorodifluoromethane	Dichloroethane, 1,1-	Dichloroethane, 1,2-	Dichloroethylene, 1,1-	Dichloroethylene, 1,2-cis-	Dichloroethylene, 1,2-trans-	Dichloropropane, 1,2-	Dichloropropene, 1,3-	Dichloropropene, 1,3-cis-	Dichloropropene, 1,3-trans-	Ethylene dibromide	Hexane (n)	Methylene chloride	Methyl Ethyl Ketone (MEK)	Methyl Isobutyl Ketone (MIK)	Tetrachloroethane, 1,1,1,2-	Tetrachloroethane, 1,1,2,2-	Tetrachloroethylene	Trichloroethane, 1,1,1-	Trichloroethane, 1,1,2-	Trichloroethylene	Trichlorofluoromethane	Vinyl chloride
			VOCs																																	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			10	0.5	1	0.5	0.19	0.2	0.2	0.5	0.4	0.4	0.4	1	0.2	0.49	0.2	0.5	0.5	0.2	0.5	0.3	0.4	0.19	1	2	10	5	0.5	0.4	0.2	0.2	0.4	0.2	0.5	0.2
ON GW Table 3 Non-Potable Coarse			130000	85000	380	5.6	0.79	630	2.4	82000	4600	9600	8	4400	320	1.6	1.6	1.6	1.6	16	5.2			0.25	51	610	470000	140000	3.3	3.2	1.6	640	4.7	1.6	2500	0.5
MAXIMUM CONCENTRATION (µg/g)			<10	<0.5	<1	<0.5	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.2	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2
BH22-01	BH22-01	12/6/2022	<10	<0.5	<1	<0.5	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.2	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2
BH22-04	DUP-001	12/6/2022	<10	<0.5	<1	<0.5	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.2	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2
BH22-04	BH22-04	12/6/2022	<10	<0.5	<1	<0.5	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.2	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2
BH22-12	BH22-12	12/6/2022	<10	<0.5	<1	<0.5	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.2	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2
BH22-14	BH22-14	12/6/2022	<10	<0.5	<1	<0.5	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<1	<0.2	<0.5	<0.2	<0.5	<0.5	<0.2	<0.5	<0.3	<0.4	<0.2	<1	<2	<10	<5	<0.5	<0.5	<0.2	<0.2	<0.5	<0.2	<0.5	<0.2

Location_Code	Field_ID	Sampled_Date_Time	Acenaphthylene	Acenaphthene	Anthracene	Benz[a]anthracene	Benzo[b+k]fluoranthene	Benzo[g h i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a h]anthracene	Fluoranthene	Fluorene	Indeno[1 2 3-cd]pyrene	Methylnaphthalene, 1-	Methylnaphthalene, 2-	Methylnaphthalene, 2-(1-)	Naphthalene	Phenanthrene	Pyrene
			PAHs																	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.071	0.05	0.03	0.05
ON GW Table 3 Non-Potable Coarse			1.8	600	2.4	4.7		0.2	0.4	1	0.52	130	400	0.2	1800	1800	1800	1400	580	68
MAXIMUM CONCENTRATION (µg/g)			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05
BH22-01	BH22-01	12/6/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05
BH22-04	DUP-001	12/6/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05
BH22-04	BH22-04	12/6/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05
BH22-12	BH22-12	12/6/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05
BH22-14	BH22-14	12/6/2022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.071	<0.05	<0.03	<0.05

Location_Code	Field_ID	Sampled_Date_Time	Chromium VI	Mercury	Silver (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)	Boron (Total) (Filtered)	Cadmium (Filtered)	Chromium Total (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Lead (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Selenium (Filtered)	Sodium (Filtered)	Thallium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)
			Metals																				
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
EQL			0.5	0.1	0.09	0.5	1	2	0.4	10	0.09	5	0.5	0.9	0.5	0.5	1	2	0.1	0.05	0.1	0.5	5
ON GW Table 3 Non-Potable Coarse			140	0.29	1.5	20000	1900	29000	67	45000	2.7	810	66	87	25	9200	490	63	2300	510	420	250	1100
MAXIMUM CONCENTRATION (µg/g)			0.7	<0.1	<0.09	0.62	2.6	95	<0.4	850	0.13	<5	8.7	15	<0.5	23	12	<2	270	0.092	20	1.1	9.4
BH22-01	BH22-01	12/6/2022	<0.5	<0.1	<0.09	<0.5	1.1	55	<0.4	**850**	<0.09	<5	**8.7**	11	<0.5	2.5	**12**	<2	**270**	<0.05	**20**	0.83	**9.4**
BH22-04	DUP-001	12/6/2022	<0.5	<0.1	<0.09	<0.5	1.5	62	<0.4	670	**0.13**	<5	3.4	5.2	<0.5	3.4	8.6	<2	150	0.08	12	1	5.4
BH22-04	BH22-04	12/6/2022	<0.5	<0.1	<0.09	<0.5	2	79	<0.4	730	0.11	<5	3	6.9	<0.5	3.4	8.4	<2	160	**0.092**	11	**1.1**	6.3
BH22-12	BH22-12	12/6/2022	<0.5	<0.1	<0.09	<0.5	**2.6**	91	<0.4	720	0.1	<5	4.4	**15**	<0.5	2.3	6.8	<2	210	<0.05	12	0.81	8.7
BH22-14	BH22-14	12/6/2022	**0.7**	<0.1	<0.09	**0.62**	1.3	**95**	<0.4	160	<0.09	<5	<0.5	4.3	<0.5	**23**	2.4	<2	160	<0.05	17	0.79	<5

HIGHLIGHTED / BOLD - Denotes Maximum Concentration locations for detectable concentrations. All other maximum concentrations identified at all Sampling Locations

Env Stds Description

ON GW Table 3 Non-Potable Coarse:Ontario Groundwater Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Coarse Textured Soils

Env Stds Comments

#1:F1 fraction does not include BTEX; however, the proponent has the choice as to whether or not to subtract BTEX from the analytical result

Field Duplicates (soil)
Filter: SDG in('907894-

	SDG	907894-01-01	907894-01-01		907894-01-01	907894-01-01		907894-03-01	907894-03-01		907894-04-01	907894-04-01	
	Field ID	BH22-10-SS2	DUP-001	RPD	BH22-14-SS3	DUP-002	RPD	BH22-01-SS2	DUP-003	RPD	BH22-09-SS1	DUP-004	RPD
	Sampled Date/Time	11/23/2022 10:20	11/23/2022 10:20		11/23/2022 12:11	11/23/2022 12:11		11/24/2022 9:40	11/24/2022 9:40		11/24/2022 15:30	11/24/2022 15:30	
Chem_Grc	ChemNam	Units	EQL										
Physicoche	Moisture	%	1	4.8	5	4	29	19	42	21	21	0	21	15	33
emical															
Petroleum I	Benzene	µg/g	0.006	<0.006	<0.006	0				<0.006	<0.006	0	<0.006	<0.006	0
	Toluene	µg/g	0.02	<0.02	<0.02	0				<0.02	<0.02	0	<0.02	<0.02	0
	Ethylbenze	µg/g	0.01	<0.01	<0.01	0				<0.01	<0.01	0	<0.01	<0.01	0
	Xylene (o)	µg/g	0.02	<0.02	<0.02	0				<0.02	<0.02	0	<0.02	<0.02	0
	Xylene (m	µg/g	0.02	<0.02	<0.02	0				<0.02	<0.02	0	<0.02	<0.02	0
	Xylene Mix	µg/g	0.02	<0.02	<0.02	0				<0.02	<0.02	0	<0.02	<0.02	0
	Styrene	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Methyl tert-	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Petroleum	µg/g	10	<10	<10	0				<10	<10	0	<10	<10	0
	Petroleum	µg/g	10	<10	<10	0				<10	<10	0	<10	<10	0
	Petroleum	µg/g	10	<10	<10	0				<10	<10	0	<10	<10	0
	Petroleum	µg/g	50	<50	<50	0				<50	<50	0	<50	<50	0
	Petroleum	µg/g	50	<50	<50	0				<50	<50	0	<50	<50	0
	Reached B	N/A		1	1	0				1	1	0	1	1	0
Hydrocarbons															
VOCs	Acetone	µg/g	0.49	<0.49	<0.49	0				<0.49	<0.49	0	<0.49	<0.49	0
	Bromodichl	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Bromoform	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Bromometh	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Carbon Tet	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Chlorobenz	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Chloroform	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dibromoch	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dichlorobe	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dichlorobe	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dichlorobe	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dichlorodif	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dichloroeth	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dichloroeth	µg/g	0.049	<0.049	<0.049	0				<0.049	<0.049	0	<0.049	<0.049	0
	Dichloroeth	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dichloroeth	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dichloroeth	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dichloropro	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Dichloropro	µg/g	0.05	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.05	0
	Dichloropro	µg/g	0.03	<0.03	<0.03	0				<0.03	<0.03	0	<0.03	<0.03	0
	Dichloropro	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Ethylene di	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Hexane (n)	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Methylene	µg/g	0.049	<0.049	<0.049	0				<0.049	<0.049	0	<0.049	<0.049	0
	Methyl Ethy	µg/g	0.4	<0.4	<0.4	0				<0.4	<0.4	0	<0.4	<0.4	0
	Methyl Isob	µg/g	0.4	<0.4	<0.4	0				<0.4	<0.4	0	<0.4	<0.4	0
	Tetrachloro	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Tetrachloro	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Tetrachloro	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Trichloroeth	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Trichloroeth	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Trichloroeth	µg/g	0.01	<0.01	<0.01	0				<0.01	<0.01	0	<0.01	<0.01	0
	Trichloroflu	µg/g	0.04	<0.04	<0.04	0				<0.04	<0.04	0	<0.04	<0.04	0
	Vinyl chlori	µg/g	0.019	<0.019	<0.019	0				<0.019	<0.019	0	<0.019	<0.019	0

Field Duplicates (soil)
Filter: SDG in('907894-

			SDG	907894-01-01	907894-01-01		907894-01-01	907894-01-01		907894-03-01	907894-03-01		907894-04-01	907894-04-01	
			Field ID	BH22-10-SS2	DUP-001	**RPD**	BH22-14-SS3	DUP-002	**RPD**	BH22-01-SS2	DUP-003	**RPD**	BH22-09-SS1	DUP-004	**RPD**
			Sampled Date/Time	11/23/2022 10:20	11/23/2022 10:20		11/23/2022 12:11	11/23/2022 12:11		11/24/2022 9:40	11/24/2022 9:40		11/24/2022 15:30	11/24/2022 15:30	
PAHs	Acenaphth	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Acenaphth	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Anthracene	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Benz[a]anth	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Benzo[b+k]	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Benzo[e]py	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Benzo[g h i]	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Benzo[k]flu	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Benzo[a]py	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Biphenyl 1,	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Chrysene	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Dibenz[a h]	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Fluoranther	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Fluorene	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Indeno[1 2	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Methylnapht	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Methylnapht	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Naphthalen	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Perylene	µg/g	0.005	<0.005	<0.005	0				0.019	0.015	24	0.0078	<0.005	NC
	Phenanthre	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	<0.005	<0.005	0
	Pyrene	µg/g	0.005	<0.005	<0.005	0				<0.005	<0.005	0	**0.026**	**<0.005**	**NC**
	IACR (CCM	N/A	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0
	B(a)P TPE	µg/g	0.01	<0.01	<0.01	0				<0.01	<0.01	0	<0.01	<0.01	0
Metals	pH (Lab)	pH Units					7.49	7.58	1	7.38	7.62	3	7.64	7.6	1
	Boron (Hot	µg/g	0.05							0.39	0.47	19	**0.26**	**0.58**	**76**
	Chromium	µg/g	0.18				<0.18	<0.18	0	<0.18	<0.18	0	<0.18	<0.18	0
	Mercury	µg/g	0.05				<0.05	<0.05	0	<0.05	<0.05	0	<0.05	<0.05	0
	Silver	µg/g	0.2				<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0
	Antimony	µg/g	0.2				<0.2	<0.2	0	<0.2	<0.2	0	<0.2	<0.2	0
	Arsenic	µg/g	1				1.3	1.3	0	1.5	1.2	22	1.1	1.7	43
	Barium	µg/g	0.5				**140**	**44**	**104**	**72**	**110**	**42**	**88**	**140**	**46**
	Beryllium	µg/g	0.2				0.49	0.27	58	0.27	0.36	29	0.3	0.34	13
	Boron (Tots	µg/g	5				<5	5.8	15	5.4	6.4	17	<5	7.4	39
	Cadmium	µg/g	0.1				<0.1	<0.1	0	<0.1	<0.1	0	<0.1	0.14	33
	Chromium	µg/g	1				**26**	**12**	**74**	19	25	27	22	24	9
	Cobalt	µg/g	0.1				**8.1**	**5.5**	**38**	5.3	6.9	26	5.5	6.9	23
	Copper	µg/g	0.5				**18**	**12**	**40**	10	14	33	**13**	**18**	**32**
	Lead	µg/g	1				6.5	5.9	10	3	4	29	3.5	5.9	51
	Molybdenu	µg/g	0.5				0.57	0.54	5	<0.5	0.53	6	0.54	0.7	26
	Nickel	µg/g	0.5				**16**	**10**	**46**	11	15	31	12	15	22
	Selenium	µg/g	0.5				<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
	Thallium	µg/g	0.05				0.18	0.16	12	0.077	0.12	44	0.099	0.12	19
	Uranium	µg/g	0.05				0.56	0.47	17	0.54	0.56	4	**0.61**	**1.1**	**57**
	Vanadium	µg/g	5				37	22	51	30	39	26	32	34	6
	Zinc	µg/g	5				37	20	60	26	40	42	29	46	45

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 80 (1-10 x EQL); 50 (10-30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Field Duplicates (water)
Filter: SDG in('909721

SDG	909721-01-01	909721-01-01	
Field ID	BH22-04	DUP-001	RPD
Sampled Date/Time	12/6/2022 9:05	12/6/2022 9:05	

Method_T	ChemNam	Units	EQL			
F2-F4 Hyd	Petroleum	µg/L	100	<100	<100	0
	Petroleum	µg/L	200	<200	<200	0
	Petroleum	µg/L	200	<200	<200	0
rocarbons						
Volatile Or	Benzene	µg/L	0.17	<0.17	<0.17	0
	Toluene	µg/L	0.2	<0.2	<0.2	0
	Ethylbenze	µg/L	0.2	<0.2	<0.2	0
	Xylene (o)	µg/L	0.2	<0.2	<0.2	0
	Xylene (m	µg/L	0.2	<0.2	<0.2	0
	Xylene Mix	µg/L	0.2	<0.2	<0.2	0
	Styrene	µg/L	0.5	<0.5	<0.5	0
	Methyl tert	µg/L	0.5	<0.5	<0.5	0
	Petroleum	µg/L	25	<25	<25	0
	Petroleum	µg/L	25	<25	<25	0
ganics						
Calculated	Dichloropro	µg/L	0.5	<0.5	<0.5	0
Parameters						
Volatile Or	Acetone	µg/L	10	<10	<10	0
	Bromodich	µg/L	0.5	<0.5	<0.5	0
	Bromoform	µg/L	1	<1	<1	0
	Bromomet	µg/L	0.5	<0.5	<0.5	0
	Carbon Te	µg/L	0.2	<0.2	<0.2	0
	Chlorobenz	µg/L	0.2	<0.2	<0.2	0
	Chloroform	µg/L	0.2	<0.2	<0.2	0
	Dibromoch	µg/L	0.5	<0.5	<0.5	0
	Dichlorobe	µg/L	0.5	<0.5	<0.5	0
	Dichlorobe	µg/L	0.5	<0.5	<0.5	0
	Dichlorobe	µg/L	0.5	<0.5	<0.5	0
	Dichlorodif	µg/L	1	<1	<1	0
	Dichloroeth	µg/L	0.2	<0.2	<0.2	0
	Dichloroeth	µg/L	0.5	<0.5	<0.5	0
	Dichloroeth	µg/L	0.2	<0.2	<0.2	0
	Dichloroeth	µg/L	0.5	<0.5	<0.5	0
	Dichloroeth	µg/L	0.5	<0.5	<0.5	0
	Dichloropro	µg/L	0.2	<0.2	<0.2	0
	Dichloropro	µg/L	0.3	<0.3	<0.3	0
	Dichloropro	µg/L	0.4	<0.4	<0.4	0
	Ethylene d	µg/L	0.2	<0.2	<0.2	0
	Hexane (n)	µg/L	1	<1	<1	0
	Methylene	µg/L	2	<2	<2	0
	Methyl Eth	µg/L	10	<10	<10	0
	Methyl Isol	µg/L	5	<5	<5	0
	Tetrachlor	µg/L	0.5	<0.5	<0.5	0
	Tetrachlor	µg/L	0.5	<0.5	<0.5	0
	Tetrachlor	µg/L	0.2	<0.2	<0.2	0
	Trichloroet	µg/L	0.2	<0.2	<0.2	0

Field Duplicates (water)
Filter: SDG in('909721

SDG	909721-01-01	909721-01-01	
Field ID	BH22-04	DUP-001	RPD
Sampled Date/Time	12/6/2022 9:05	12/6/2022 9:05	

	Trichloroet	µg/L	0.5	<0.5	<0.5	0
	Trichloroet	µg/L	0.2	<0.2	<0.2	0
	Trichlorofl	µg/L	0.5	<0.5	<0.5	0
	Vinyl chlori	µg/L	0.2	<0.2	<0.2	0
ganics						
Calculated	Methylnapl	µg/L	0.071	<0.071	<0.071	0
Parameters						
Polyaroma	Acenaphth	µg/L	0.05	<0.05	<0.05	0
	Acenaphth	µg/L	0.05	<0.05	<0.05	0
	Anthracene	µg/L	0.05	<0.05	<0.05	0
	Benz[a]ant	µg/L	0.05	<0.05	<0.05	0
	Benzo[b+k	µg/L	0.05	<0.05	<0.05	0
	Benzo[g h	µg/L	0.05	<0.05	<0.05	0
	Benzo[k]flu	µg/L	0.05	<0.05	<0.05	0
	Benzo[a]py	µg/L	0.009	<0.009	<0.009	0
	Chrysene	µg/L	0.05	<0.05	<0.05	0
	Dibenz[a h	µg/L	0.05	<0.05	<0.05	0
	Fluoranthe	µg/L	0.05	<0.05	<0.05	0
	Fluorene	µg/L	0.05	<0.05	<0.05	0
	Indeno[1 2	µg/L	0.05	<0.05	<0.05	0
	Methylnapl	µg/L	0.05	<0.05	<0.05	0
	Methylnapl	µg/L	0.05	<0.05	<0.05	0
	Naphthaler	µg/L	0.05	<0.05	<0.05	0
	Phenanthre	µg/L	0.03	<0.03	<0.03	0
	Pyrene	µg/L	0.05	<0.05	<0.05	0
tic Hydrocarbons						
Metals	Antimony (	µg/L	0.5	<0.5	<0.5	0
	Arsenic (Fi	µg/L	1	2	1.5	29
	Barium (Fi	µg/L	2	79	62	24
	Beryllium (	µg/L	0.4	<0.4	<0.4	0
	Boron (Tot	µg/L	10	730	670	9
	Cadmium (	µg/L	0.09	0.11	0.13	17
	Chromium	µg/L	0.5	<0.5	<0.5	0
	Chromium	µg/L	5	<5	<5	0
	Cobalt (Filt	µg/L	0.5	3	3.4	13
	Copper (Fi	µg/L	0.9	6.9	5.2	28
	Lead (Filte	µg/L	0.5	<0.5	<0.5	0
	Mercury	µg/L	0.1	<0.1	<0.1	0
	Molybdenu	µg/L	0.5	3.4	3.4	0
	Nickel (Filt	µg/L	1	8.4	8.6	2
	Selenium (	µg/L	2	<2	<2	0
	Silver (Filte	µg/L	0.09	<0.09	<0.09	0
	Sodium (Fi	mg/l	0.1	160	150	6
	Thallium (F	µg/L	0.05	0.092	0.08	14
	Uranium (F	µg/L	0.1	11	12	9
	Vanadium	µg/L	0.5	1.1	1	10
	Zinc (Filter	µg/L	5	6.3	5.4	15

Field Duplicates (water)
Filter: SDG in('909721

SDG	909721-01-01	909721-01-01	
Field ID	BH22-04	DUP-001	**RPD**
Sampled Date/Time	12/6/2022 9:05	12/6/2022 9:05	

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 80 (1-10 x EQL)
***Interlab Duplicates are matched on a per compound basis as methods vary between laborat

Appendix D – Sampling and Analysis Plan

Phase Two Environmental Site Assessment

3850 Cambrian Road
Ottawa, Ontario

Choice Properties Limited Partnership

SLR Project No. 209.013940.00001

March 24, 2023

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SAMPLING AND ANALYSIS PLAN

3850 Cambrian Road
Ottawa, Ontario

SLR Project No.
209.013940.00001

Prepared by:

SLR Consulting (Canada) Ltd.

100 Stone Road West, Suite 201
Guelph, ON N1G 5L3

Prepared For:
Choice Properties Limited Partnership
The Weston Centre
700-22 St. Clair Avenue East
Toronto, ON M4T 2S5

November 2022

TABLE OF CONTENTS

TABLES

ATTACHMENTS

1.0 Introduction

SLR Consulting (Canada) Ltd. (SLR) has prepared this Sampling and Analysis Plan (SAP) for the Phase Two Environmental Site Assessment (ESA) to be conducted at the undeveloped/vacant land parcel, located at 3850 Cambrian Road in Ottawa (Nepean), Ontario (hereinafter referred to as the "Site", "Phase One Property" or "Phase Two Property") and legally known as "Part of Lot 11, Concession 3 (Rideau Front) Nepean, Part 1 and Part 3 Plan 4R31049; City of Ottawa"

The Phase Two is to be prepared in general accordance with the requirements of Ontario Regulation (O.Reg.) 153/04 (last amendment: 214/21 on March 19, 2021) under Part XV.1 of the Environmental Protection Act (hereinafter referred to as "O. Reg. 153/04 (as amended)" or "the Regulation"); and Schedule E, Table 1, "Mandatory Requirements for Phase Two ESA Reports".

Figure A attached to this Sampling and Analysis Plan shows the Site Location and Surrounding Land Use.

Based on SLR discussions with the Client, it is understood that the proposed future property use of the Site will be commercial and will consist of four buildings, two located at the north portion of the Site and two located at the south portions of the Site. Asphalt covered parking areas will primarily be located at the central and west portions of the Site.

Based on the above, SLR infers that the applicable environmental regulations do not mandate the filing of a Record of Site Condition (RSC) with the Ontario Ministry of the Environment, Conservation and Parks (MECP).

The work completed for the Phase Two ESA will be performed in general accordance with standard environmental consulting practices and the following documents:

- MECP document entitled "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario", revised December 1996;
- Association of Professional Geoscientists of Ontario document entitled "Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended)", dated April 2011; and
- Ontario Regulation 153/04, of the Environmental Protection Act (EPA), last amended by O.Reg.214/21 ("O.Reg.153/04").

This SAP provides the scope of work and procedures to be completed for the Phase Two ESA.

1.1 Areas of Potential Environmental Concern

Based on the information obtained during the 2023 SLR Phase One ESA (dated January 31, 2023), potentially contaminating activities (PCA) were evaluated for offsite locations within the Phase One Study Area and within the Phase Two Property. Two PCAs were identified during the 2023 SLR Phase One ESA which had associated areas of potential environmental concern (APECs) that were determined to affect the Site and are described and summarized in **SAP Table 1** below:

SAP Table 1: Areas of Potential Environmental Concern

Area of Potential Environmental Concern (APEC)[1]	Location of Area of Potential Environmental Concern on the Site	Potentially Contaminating Activity[2]	Location of PCA (On-site or Off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (Ground water, soil and/or sediment)
APEC 1	Site (entirety)	PCA 11 – Commercial Trucking and Container Terminals	On-site	BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg;	Soil and Groundwater
APEC 2	Site (entirety)	PCA 30 – Importation of Fill Material of Unknown Quality	On-site	VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); B-HWS; Hg; low or high pH;	Soil and Groundwater

1 - APECs means the area on, in or under the Site where one or more contaminants are potentially present, as determined through the 2023 SLR Phase One ESA, including through:
(a) identification of past or present uses on, in or under the Site, and
(b) identification of PCAs.
2 - PCA obtained from Column A of Table 2 of Schedule D of O. Reg. 153/04 (as amended)
3 - Using the Method Groups as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011
- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes; PHCs: Petroleum Hydrocarbons; VOCs: Volatile Organic Compound; PAHs: Polycyclic Aromatic Hydrocarbons
- Metals (O.Reg. 153/04) include hydride forming metals As, Sb, Se: Arsenic, Antimony, Selenium;
- Cr(VI): Hexavalent Chromium; B-HWS: Boron, Hot Water Soluble; Hg: Mercury

Figure B attached to this Sampling and Analysis Plan shows location of the APECs noted above.

2.0 Scope of Investigation

The Phase One Conceptual Site Model was used to determine the environmental media to be investigated during the Phase Two ESA, locations and depths for sample collection, and parameters to be analysed for the samples submitted to the laboratory. **SAP Table A** attached to this Sampling and Analysis Plan provides a detailed summary of the Phase Two ESA scope of work. It should be noted that soil sampling depth intervals, monitoring well screen intervals and sampling frequencies are all subject to change based on field observations.

2.1 Overview of Phase Two ESA Investigation

The Phase Two ESA investigation is designed to investigate the APECs identified in the 2023 SLR Phase One ESA. **SAP Table A**, attached, provides a detailed summary of the Phase Two ESA scope of work. It will be undertaken as an intrusive investigation with the following task completed:

- Development of a site-specific Health and Safety plan;
- Completion of site utility clearances prior to intrusive activities;

- Advancement of nine (9) boreholes on the Site with four (4) completed as groundwater monitoring wells;
- Select representative soil samples based on field screening and olfactory/visual observations, worst-case/representative from the boreholes to be submitted for laboratory analysis by a Canadian Association for Laboratory Accreditation (CALA) certified laboratory;
- Select representative soil samples for grain size analysis to support selection of MECP Standards;
- Develop and purge overburden groundwater monitoring wells to collect representative groundwater samples to be submitted for laboratory analysis by a CALA certified laboratory;
- Groundwater level monitoring at static groundwater conditions;
- Compare the analytical results to the applicable Site Condition Standard (SCS) listed in the "Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011;
- Review the grain size analysis on selected soil samples;
- Incorporate the elevation survey of the boreholes and monitoring wells as referenced to a geodetic benchmark;
- Collection of drill cuttings and purged groundwater generated as part of the Phase Two ESA activities; and,
- Preparation of a Phase Two ESA Report in general accordance with O.Reg.153/04, as amended.

The specific details of the Phase Two ESA investigation is provided in the following subsections, as required by O.Reg.153/04, as amended.

2.2 Quality Assurance and Quality Control Program

For the Phase Two ESA to be completed, a QA/QC program will be followed to ensure that the sampling and analytical data will be interpretable, meaningful, and reproducible. Two (2) stages of QA/QC are to be completed, with one stage to be completed by the laboratory and the other as part of the Standard Field Procedures (SFP) by SLR.

Groundwater samples are to be collected in laboratory-supplied clean bottles, and soil samples are to be placed in appropriate laboratory-supplied, clean sample jars. All sample containers will be labelled with the project name and number, date, sample location identification, and depth of sample. All samples will be placed in ice-filled insulated coolers and shipped to the laboratory under a Chain-of-Custody (COC).

The services of (Bureau Veritas Laboratory) BVL in Ottawa and Mississauga, Ontario will complete all soil and groundwater analyses for this Phase Two ESA. BVL is accredited by the Canadian Association for Laboratory Accreditation (CALA) and is compliant with the Provincial and Federal analytical requirements for investigations of this nature. The laboratory routinely analyse, method blanks, control standards samples, certified reference material standards, method spikes, replicates, duplicates, and instrument blanks as part of their QA/QC programs.

To verify the reproducibility of the laboratory analyses and to demonstrate that the field sampling techniques utilized by SLR personnel are capable of yielding reproducible results, SLR will collect blind field

duplicate (BFD) soil and groundwater samples. One (1) trip blank sample will also be submitted as a component of the groundwater sampling program for each submission of VOC analyses.

Based on the results of the blind field duplicate, the relative percent difference (RPD) will be calculated as a measure of QA/QC. The RPD is defined as the difference between the duplicate results divided by the mean of the results, expressed as a percentage. Analytical error increases near the reportable detection limit (RDL); therefore, the RPD is not normally calculated unless the concentrations of both the original and duplicate samples are greater than five times the RDL. If the RPD for a sample and its duplicate do not meet SLR's RPD standards for the parameters analysed, an explanation is required to qualify the difference in values.

2.2.1 Field Duplicate Samples

Field duplicate samples for soil and groundwater will be collected for laboratory analysis in accordance with SLRs TGD #8.1 – QA/QC. One field duplicate sample for each medium will be collected for every ten samples submitted for laboratory analysis.

2.2.2 Trip Blanks

A groundwater trip blank is a set of VOC sample bottles filled by the analytical laboratory with distilled water and shipped with the groundwater sample bottles.

Trip blanks will be stored with the sample containers provided by the laboratory during travel to the Site, while on the Site, and during travel from the Phased Two Site back to the laboratory. The sample containers comprising a trip blank will not be opened in the field and will only be opened by a laboratory technician once all samples have been submitted.

One trip blank will accompany each submission of groundwater to the laboratory in accordance with O.Reg.153/04, as amended. Each trip blank will be submitted for analysis of VOCs. Based on the scope of work and anticipated field work schedule for the Phase Two ESA, it is estimated that analysis of one (1) groundwater trip blank will be required. Additional trip blanks will be submitted if there are additional laboratory submissions for groundwater analysis.

2.2.3 Non-Dedicated Sampling and Monitoring Equipment Cleaning

Based on the Phase Two ESA scope of work, the non-dedicated sampling and monitoring equipment to be used during the completion of the Phase Two ESA is an interface probe. It will be cleaned prior to initial use and between sampling locations following the cleaning measures described in SLRs TGD #3.5 – Groundwater Sampling.

2.2.4 Calibration Checks on Field Instruments

Field Screening Instruments

The photoionization detector (PID) used for the field screening of soil samples will be calibrated each day, based on SLR's reference document SFP #6.1 – PID Calibration. Calibration checks will also be made between each day of use. Records of the calibration and calibration checks of the PID, including any

calibration sheets provided by the equipment supplier, will be kept for inclusion in the Phase Two ESA report.

Water Quality Measurement Instruments

Water quality instruments used to measure field parameters during groundwater sampling should be calibrated by the equipment supplier. Records of calibrations provided by the equipment supplier, will be kept for inclusion in the Phase Two ESA report.

2.2.5 Data Quality Objectives

The data quality objectives for the Phase Two ESA will be to obtain unbiased analytical data that are representative of actual soil and groundwater conditions at the Site. This will be accomplished by implementing a quality assurance/quality control (QA/QC) program, as described above, and by completing the field work in accordance with SLR's standard operating procedures (SOPs), as described below. SLR's SOPs are based in part on the MECP's "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario", dated December 1996 and the Association of Professional Geoscientists of Ontario document entitled "Guidance for Environmental Site Assessments under Ontario Regulation 153/04 (as amended)", dated April 2011.

The data quality objectives are intended to minimize uncertainty in the analytical data set such that the data are considered reliable enough to not affect the conclusions and recommendations of the Phase Two ESA and to meet the overall objective of the Phase Two ESA, which is to assess the environmental quality of the Phase Two Property in relation to the identified APECs.

2.2.6 SLR Standard Operating Procedures (SOPs)

The field investigations for the Phase Two ESA, will be completed based on the following SLR Standard Field Procedures (SFPs) and Technical Guidance Documents (TGDs) collectively referred to as the SLR Standard Operating Procedures (SOPs). SLR utilized the below internal documents:

- TGD #2.01 – Soil Classification
- TGD #2.06 – Borehole Logging
- TGD #2.10 – Soil Sampling for VOCs
- TGD #3.02 – Well Development
- TGD #3.03 – Groundwater Monitoring
- TGD #3.5 – Groundwater Sampling of Monitoring Wells
- TGD #5.03 – Drill Cuttings and Purge Water Management
- TGD #8.1 – QA/QC
- SFP #2.2 – Soil Sampling and Field Screening
- SFP #3.2 – Groundwater Monitoring Well Installation
- SFP #6.1 – Photoionization Detector (PID) Calibration

Any deviations from the SOPs will be summarized in the Phase Two ESA report.

2.3 Sampling System

Boreholes and monitoring wells will be placed on the Site following a judgemental sampling system, based on the locations of the APECs outlined in **SAP Table 1** and shown on **Figure B** attached, and where the potential for contaminants of potential concern (COPCs) are expected to be present at highest concentrations.

The sampling system and rationale to be used for each APEC is summarized in **SAP Table A** attached to this Sampling and Analysis Plan. In addition, **Figure B** attached to this Sampling and Analysis Plan shows location of the APECs noted above along with the proposed borehole and monitoring well locations and associated placeholder sampling location identifications (denoted as BH-A to BH-H in this SAP). Sampling locations and sampling location identifications are all subject to change based on field observations, access restraints and utility clearances.

SLR will ensure all final sampling locations will be within the associated APECs or will provide sufficient rationale for any impediments or deviations from this Sampling and Analysis Plan in the Phase Two ESA report.

SAP TABLE A
SAMPLING SYSTEM RATIONALE

AREA OF POTENTIAL ENVIRONMENTAL CONCERN	BOREHOLE / MONITORING WELL ID	LOCATION	RATIONALE	BOREHOLE DEPTHS (mbgs)	WELL TO BE INSTALLED	DEPTH OF WELL SCREEN[a]	SAMPLING SYSTEM (judgmental, random or grid)	SOIL SAMPLES	QA/QC SOIL SAMPLES	GROUNDWATER SAMPLES	QA/QC GROUNDWATER SAMPLES
APEC-1 (as a result of PCA-11, Encompasses the Entire Site)	BH-A to BH-H	To be located across the entire Site (9 locations). SEE FIGURE B	9 Boreholes with 4 completed as monitoring wells to assess potential soil and groundwater impacts related to historic operations at the Site	6.1[a]	Yes, at 4 of 9 sampling locations	3.05 to 6.10 mbgs Bottom of screen in monitoring wells will be located such that the screen straddles the inferred water table.	Judgmental	One soil sample collected from within the inferred groundwater table (which should represent 'worse-case' conditions observed over the prescribed intervals) will be submitted for analysis of BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg 2 to 3 soil samples per sampling locations for a total of 22 soil samples for one or more of the identified COPCs	One duplicate soil sample will be submitted for every 10 samples for analysis of BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg as required 3 blind field duplicates expected	One groundwater sample per monitoring well will be submitted for analysis of BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg Total of 4 groundwater samples for one or more of the identified COPCs	One duplicate groundwater sample will be submitted for analysis for every 10 groundwater samples of BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg One trip blank will be submitted for analysis of BTEX per submission of groundwater
APEC-2 (as a result of PCA-30, Encompasses the Entire Site)	BH-A to BH-H	To be located across the entire Site (9 locations). SEE FIGURE B	9 Boreholes with 4 to be completed as monitoring wells to assess potential soil and groundwater impacts related to the presence of fill on the Site	6.1[a]	Yes, at 4 of 9 sampling locations	3.05 to 6.10 mbgs Bottom of screen in monitoring wells will be located such that the screen straddles the inferred water table.	Judgmental	One soil sample will be submitted from observed fill materials (or at a depth of less than 1.5 mbgs if no visual or olfactory evidence of fill or impact are identified) for analysis of VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); B-HWS; Hg; low or high pH. Additional samples will be collected based on fill thicknesses identified at each sampling locations 2 to 3 soil samples per sampling locations for a total of 22 soil samples for one or more of the identified COPCs	One duplicate soil sample will be submitted for every 10 samples for analysis of VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); B-HWS; Hg; low or high pH as required 3 blind field duplicates expected	One groundwater sample per monitoring well will be submitted for analysis of VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg Total of 4 groundwater samples for one or more of the identified COPCs	One duplicate groundwater sample will be submitted for analysis for every 10 groundwater samples of VOCs; BTEX; PHCs; PAHs; Metals (including copper, lead and zinc); As, Sb, Se; Cr(VI); Hg One trip blank will be submitted for analysis of VOCs per submission of groundwater

Notes:

All drilling and sampling to be completed in accordance with all applicable SLR Standard Operating Procedures (standard field practices and TGDs)
BTEX and PHC F1 soil samples to be field preserved and placed directly into 40-60 mL clear glass vials with methanol preservative or using a hermetic core.
Collect PHC F1 to F4 at the inferred groundwater table (if no visual or olfactory evidence of impact are identified)
Collect O.Reg. 153 metals and pH in the fill material in each borehole (or at a depth of less than 1.5 mbgs if no visual or olfactory evidence of fill or impact are identified)
At each monitoring well, take headspace organic vapour measurements (OVMs) prior to purging and collecting groundwater samples
In groundwater, parameters in select wells may change based on the results of soil quality analysis
One (1) composite soil sample to be collected from representative soils for waste characterization and future disposal

APEC - Area of potential environmental concern
PCA - Potentially Contaminating Activity
mbgs - Metres below ground surface
QA/QC - Quality Assurance/Quality Control
[a] - Dependent on Depth of Water Table
VOCs - Volatile Organic Compounds
BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes
PHCs - Petroleum Hydrocarbons
PHC F1 to F4 - Petroleum Hydrocarbon Fractions F1 to F4
PAHs - Polycyclic Aromatic Hydrocarbons
Metals - (O.Reg. 153/04) including hydride forming metals As, Sb, Se: Arsenic, Antimony, Selenium;
B-HWS - Boron, Hot Water Soluble
Hg - Mercury
Cr (VI) - Hexavalent Chromium

List of Method Groups[b]

ABNs	PCBs	Metals	Electrical Conductivity
CPs	PAHs	As, Sb, Se	Cr (VI)
1,4-Dioxane	THMs	Na	Hg
Dioxins/Furans, PCDDs/PCDFs	VOCs	B-HWS	Methyl Mercury
OCs	BTEX	Cl-	Low or high pH,
PHCs	Ca, Mg	CN-	SAR

b - as identified in the Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011

NOTES:

NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.

REFERENCED FROM: TOPOGRAPHY PLAN FROM ONTARIO LAND SURVEYORS ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO. 23350-22 AND SITE RECONNAISSANCE INFORMATION.
IMAGERY: MAXAR (IMAGE DATE: 2021)

LEGAL DESCRIPTION:
PART 1 PIN 04595 - 2079 AND PART 3 PIN 04595 - 2080
OTTAWA, ONTARIO

BASEDATA:
ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

LEGEND:

- PROPERTY BOUNDARY
- PHASE ONE AND TWO PROPERTY BOUNDARY
- PHASE ONE STUDY AREA
- INFERRED GROUNDWATER FLOW DIRECTION

CHOICE PROPERTIES LIMITED PARTNERSHIP
3850 CAMBRIAN ROAD
OTTAWA, ONTARIO

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SAMPLING AND ANALYSIS PLAN

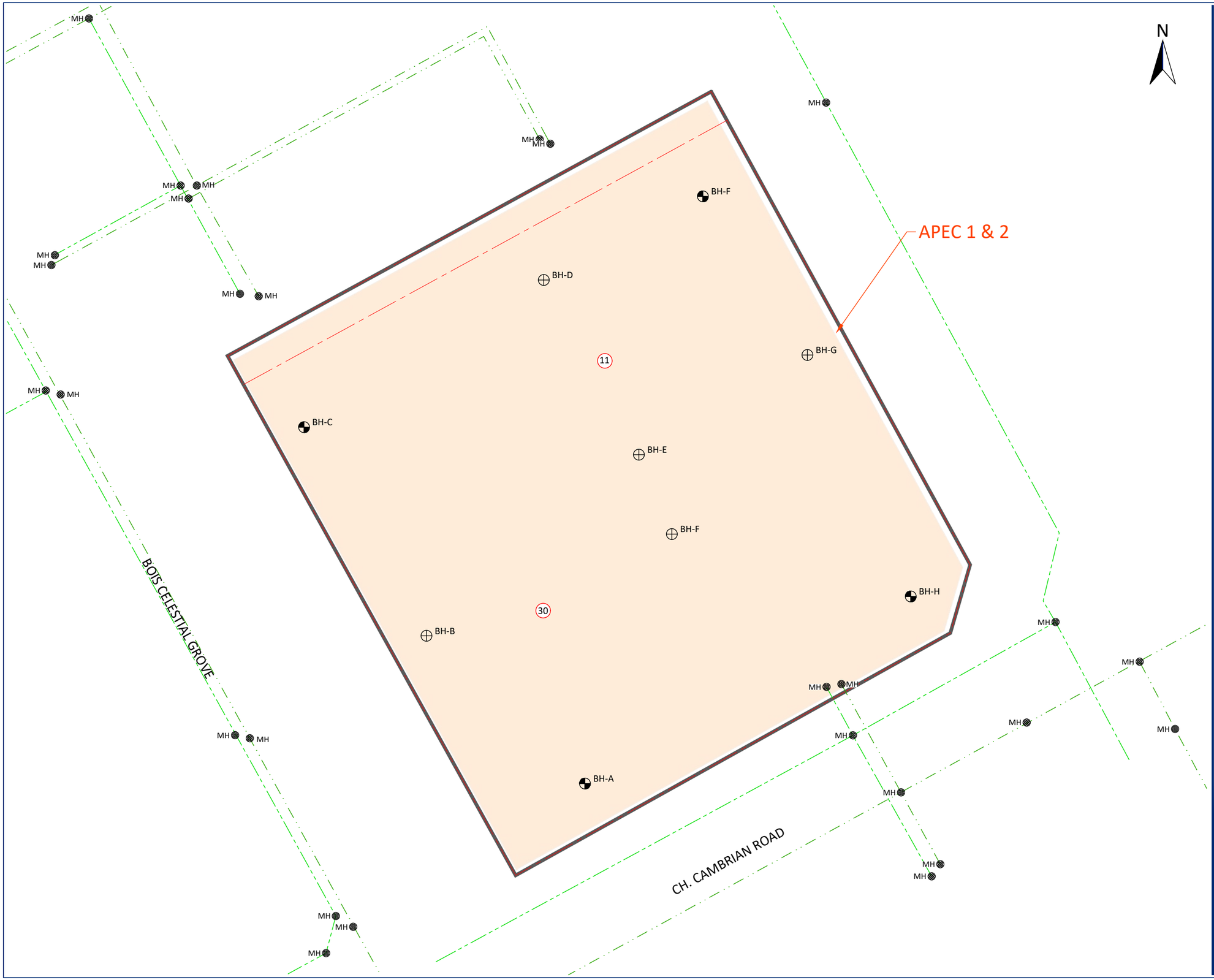
SITE LOCATION AND SURROUNDING LAND USE

FIGURE NO:
A

DATE: nOVEMBER 2022

PROJECT NO: 209.13940.00001

Cadfile name: S_209-13940-00001-A1.dwg



LEGEND:

- PROPERTY BOUNDARY
- PHASE ONE AND TWO BOUNDARY
- PROPOSED BOREHOLE
- PROPOSED BOREHOLE LOCATION COMPLETED AS A MONITORING WELL
- # PCA NUMBER CONTRIBUTES TO AN APEC
- AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)

UTILITIES AND SYMBOLS
- MH MANHOLE
- U/G SANITARY SEWER
- U/G STORM SEWER

NOTES:
NOT A LEGAL SURVEY. DO NOT USE FOR CONSTRUCTION.

REFERENCED FROM: TOPOGRAPHY PLAN FROM ONTARIO LAND SURVEYORS ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO. 23350-22 AND SITE RECONNAISSANCE INFORMATION.
IMAGERY: CITY OF OTTAWA (IMAGE DATE: 2021)

LEGAL DESCRIPTION:
PART 1 PIN 04595 - 2079 AND PART 3 PIN 04595 - 2080
OTTAWA, ONTARIO

0 5 10 20 30 40 m
SCALE 1:750
WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT
NAD 1983 UTM Zone 18 N

CHOICE PROPERTIES LIMITED PARTNERSHIP
3850 CAMBRIAN ROAD
OTTAWA, ONTARIO

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

SAMPLING AND ANALYSIS PLAN

PROPOSED BOREHOLE AND MONITORING WELL LOCATION PLAN

SLR

FIGURE NO:
B

DATE: November 2022
PROJECT NO: 209.13940.00001

Cadfile name: S_209-13940-00001-A2.dwg

Appendix E – Borehole Logs

Phase Two Environmental Site Assessment

3850 Cambrian Road
Ottawa, Ontario

Choice Properties Limited Partnership

SLR Project No. 209.013940.00001

March 24, 2023

SLR CONSULTING (CANADA) LTD.

CLIENT: **CHOICE PROPERTIES LIMITED PARTNERSHIP**
PROJECT: **Phase Two Environmental Site Assessment**
ADDRESS: **3850 Cambrian Road Ottawa, ON**
SLR JOB NO: **209.013940.00001**

Monitoring Well LOG

Monitoring Well NO: **BH22-01**
SURFACE ELEVATION: 92.51 m
UTM COORDINATES
UTM ZONE 18T 5010786.7 N 441212.96 E

DEPTH (m)	SAMPLE TYPE	SAMPLE ID	SPT COUNT	SOIL TYPE	SOIL DESCRIPTION	FIELD TEST DATA: ORGANIC VAPOUR LEVEL (ppmv)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0		SS1			**PEAT** Fibrous, soft, dark brown, moist	55		▼	GW = 0.19 mbg (12/06/22)	92
					SANDY SILT Soft, light grey, some clay, moist				bentonite seal	
1		SS2*			- Wet	50			silica sand	91
2		SS3*			**SILTY CLAY** Soft, light grey, orange mottling	45				
		SS4				25				90
3		SS5				40			50 mm 010 slot PVC pipe	89
4									end cap	88
5		SS6			- Dark grey, moist	55			silica sand	

End of borehole for environmental purposes at 5.2 m

Well Completion Details:
End of Monitoring well at 4.6 mbgs
Screened interval from 1.5 m to 4.6 mbgs
Elevation at top of casing (TOC) = 93.412 m

Groundwater Information:
Depth to groundwater from TOC = 1.10 m (12/06/22)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.203 m (OD)
DRILL DATE: November 24, 2022
LOGGED BY: RH
DRILLED BY: CCC Group

Notes: SPLIT SPOON
NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **CHOICE PROPERTIES LIMITED PARTNERSHIP**
PROJECT: **Phase Two Environmental Site Assessment**
ADDRESS: **3850 Cambrian Road Ottawa, ON**
SLR JOB NO: **209.013940.00001**

Monitoring Well LOG

Monitoring Well NO: **BH22-04**
SURFACE ELEVATION: 93.68 m
UTM COORDINATES: UTM ZONE 18T, 5010825.07 N, 441279.79 E

DEPTH (m)	SAMPLE TYPE	SAMPLE ID	SPT COUNT	SOIL TYPE	SOIL DESCRIPTION	FIELD TEST DATA: ORGANIC VAPOUR LEVEL (ppmv)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0		SS1			**SAND** Some gravel, compact, brown, moist, rootlets	0			bentonite seal	93
1		SS2*				85			silica sand	
2		SS3A*			Grey, moist to wet	0		GW = 2.03 mbg (12/06/22)		92
					SILTY CLAY Soft, grey, some silt, wet	0				
3		SS4*^								91
		SS5			- Dark grey, trace silt	0			50 mm 010 slot PVC pipe	
4										90
5		SS6							end cap silica sand	89
					End of borehole for environmental purposes at 5.2 m					

Well Completion Details:
End of Monitoring well at 4.6 mbgs
Screened interval from 1.5 m to 4.6 mbgs
Elevation at top of casing (TOC) = 94.548 m

Groundwater Information:
Depth to groundwater from TOC = 2.90 m (12/06/22)

* denotes soil sample taken for lab analysis
^ - Grain size sample submitted

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.203 m (OD)
DRILL DATE: November 23, 2022
LOGGED BY: RH
DRILLED BY: CCC Group

Notes: SPLIT SPOON; NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **CHOICE PROPERTIES LIMITED PARTNERSHIP**
PROJECT: **Phase Two Environmental Site Assessment**
ADDRESS: **3850 Cambrian Road Ottawa, ON**
SLR JOB NO: **209.013940.00001**

BOREHOLE LOG

BOREHOLE NO: **BH22-05**
SURFACE ELEVATION: 92.46 m
UTM COORDINATES: UTM ZONE 18T, 5010817 N, 441180.44 E

DEPTH (m)	SAMPLE TYPE	SAMPLE ID	SPT COUNT	SOIL TYPE	SOIL DESCRIPTION	FIELD TEST DATA: ORGANIC VAPOUR LEVEL (ppmv)	BOREHOLE COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0		SS1*			**Silty CLAY** Some sand, hard, orange mottling, moist	0				92
1		SS2*			**Sandy SILT** With clay, soft, grey, moist to wet	15				91
2		SS3*			**SILTY CLAY** Soft, grey, wet - Dark grey	35				90
3		SS4				35				89
4		SS5				25				88
5		SS6				20				
					End of borehole for environmental purposes at 5.2 m					

* denotes soil sample taken for lab analysis

ORGANIC VAPOUR LEVEL (ppmv) scale: 1 10 100 1000 10000

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.203 m (OD)
DRILL DATE: November 24, 2022
LOGGED BY: RH
DRILLED BY: CCC Group

Notes: SPLIT SPOON; NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **CHOICE PROPERTIES LIMITED PARTNERSHIP**
PROJECT: **Phase Two Environmental Site Assessment**
ADDRESS: **3850 Cambrian Road Ottawa, ON**
SLR JOB NO: **209.013940.00001**

BOREHOLE LOG

BOREHOLE NO: **BH22-06**
SURFACE ELEVATION: 93.02 m
UTM COORDINATES: UTM ZONE 18T, 5010837.86 N, 441230.78 E

DEPTH (m)	SAMPLE TYPE	SAMPLE ID	SPT COUNT	SOIL TYPE	SOIL DESCRIPTION	FIELD TEST DATA: ORGANIC VAPOUR LEVEL (ppmv)	BOREHOLE COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0		SS1			**Sandy Silt** Some gravel, compact, brown, moist	0				
1		SS2*			**PEAT** Fibrous, soft, dark brown, moist **Sandy SILT** Soft, some organics, orange mottling throughout, grey-brown, moist to wet	0				92
2		SS3*			**SILTY CLAY** Soft, grey, wet	10				91
		SS4				10				
3		SS5			- Dark grey	10				90
4										89
5		SS6				5				88
					End of borehole for environmental purposes at 5.2 m * denotes soil sample taken for lab analysis					

FIELD TEST DATA: ORGANIC VAPOUR LEVEL (ppmv) — 1 | 10 | 100 | 1000 | 10000

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.203 m (OD)
DRILL DATE: November 24, 2022
LOGGED BY: RH
DRILLED BY: CCC Group

Notes: SPLIT SPOON; NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **CHOICE PROPERTIES LIMITED PARTNERSHIP**
PROJECT: **Phase Two Environmental Site Assessment**
ADDRESS: **3850 Cambrian Road Ottawa, ON**
SLR JOB NO: **209.013940.00001**

BOREHOLE LOG

BOREHOLE NO: **BH22-09**
SURFACE ELEVATION: 93.22 m
UTM COORDINATES: UTM ZONE 18T, 5010854.14 N, 441224.03 E

DEPTH (m)	SAMPLE TYPE	SAMPLE ID	SPT COUNT	SOIL TYPE	SOIL DESCRIPTION	FIELD TEST DATA: ORGANIC VAPOUR LEVEL (ppmv)	BOREHOLE COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0		SS1*			**Sandy Silt** Some organics, some rootlets, loose, brown, moist	40				93
					PEAT Fibrous, soft, dark brown, moist					
1		SS2			**Sandy SILT** With organics, minor clay, orange mottling, rootlets	25				92
		SS3*			**SILTY CLAY** Soft, grey, wet	30				
2										91
		SS4^				20				
3					- Dark grey					90
		SS5*				25				
4										89
		SS6				0				
5					End of borehole for environmental purposes at 5.2 m					

* denotes soil sample taken for lab analysis
^ - Grain size sample submitted

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.203 m (OD)
DRILL DATE: November 24, 2022
LOGGED BY: RH
DRILLED BY: CCC Group

Notes: SPLIT SPOON
NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **CHOICE PROPERTIES LIMITED PARTNERSHIP**
PROJECT: **Phase Two Environmental Site Assessment**
ADDRESS: **3850 Cambrian Road Ottawa, ON**
SLR JOB NO: **209.013940.00001**

BOREHOLE LOG

BOREHOLE NO: **BH22-10**
SURFACE ELEVATION: 94.22 m
UTM COORDINATES
UTM ZONE 18T
5010874.6 N
441258.59 E

DEPTH (m)	SAMPLE TYPE	SAMPLE ID	SPT COUNT	SOIL TYPE	SOIL DESCRIPTION	FIELD TEST DATA: ORGANIC VAPOUR LEVEL (ppmv)	BOREHOLE COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0		SS1			**SAND** Some gravel, compact, orange mottling throughout, brown, moist	65				94
1		SS2*			- Loose, beige-brown	125				93
2		SS3A*			- Some gravel, wet	85				92
		SS4			**Sandy SILT** Some gravel, compact, some orange mottling, moist to wet	70				
3		SS5			**SILTY CLAY** Dense, light grey, some silt, wet	60				91
4										90
5		SS6			- Soft, dark grey, trace silt	0				
					End of borehole for environmental purposes at 5.2 m					

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.203 m (OD)
DRILL DATE: November 23, 2022
LOGGED BY: RH
DRILLED BY: CCC Group

Notes: SPLIT SPOON
NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **CHOICE PROPERTIES LIMITED PARTNERSHIP**
PROJECT: **Phase Two Environmental Site Assessment**
ADDRESS: **3850 Cambrian Road Ottawa, ON**
SLR JOB NO: **209.013940.00001**

Monitoring Well LOG

Monitoring Well NO: **BH22-12**
SURFACE ELEVATION: 92.55 m
UTM COORDINATES: UTM ZONE 18T 5010859.78 N 441155.33 E

DEPTH (m)	SAMPLE TYPE	SAMPLE ID	SPT COUNT	SOIL TYPE	SOIL DESCRIPTION	FIELD TEST DATA: ORGANIC VAPOUR LEVEL (ppmv)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
					PEAT Fibrous, soft, dark brown, moist					
		SS1*			**SAND** Some clay, some rootlets, some organics	20			GW = 0.27 mbg (12/06/22)	
					Fine, compact, brown, moist				bentonite seal	92
1		SS2*				30			silica sand	
		SS3*			**Sandy SILT** Compact, grey-brown, wet	35				91
2					**SILTY CLAY** Soft, dark grey, wet					
		SS4*^				40				90
3		SS5				30			50 mm 010 slot PVC pipe	89
4										
		SS6				0			end cap	88
5									silica sand	
					End of borehole for environmental purposes at 5.2 m					

Well Completion Details:
End of Monitoring well at 4.6 mbgs
Screened interval from 1.5 m to 4.6 mbgs
Elevation at top of casing (TOC) = 93.473 m

Groundwater Information:
Depth to groundwater from TOC = 1.20 m (12/06/22)

* denotes soil sample taken for lab analysis
^ - Grain size sample submitted

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.203 m (OD)
DRILL DATE: November 24, 2022
LOGGED BY: RH
DRILLED BY: CCC Group

Notes: SPLIT SPOON
NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **CHOICE PROPERTIES LIMITED PARTNERSHIP**
PROJECT: **Phase Two Environmental Site Assessment**
ADDRESS: **3850 Cambrian Road Ottawa, ON**
SLR JOB NO: **209.013940.00001**

BOREHOLE LOG

BOREHOLE NO: **BH22-13**
SURFACE ELEVATION: 92.95 m
UTM COORDINATES: UTM ZONE 18T, 5010889.99 N, 441204.5 E

DEPTH (m)	SAMPLE TYPE	SAMPLE ID	SPT COUNT	SOIL TYPE	SOIL DESCRIPTION	FIELD TEST DATA: ORGANIC VAPOUR LEVEL (ppmv)	BOREHOLE COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0		SS1*			**Silty Clay** Some gravel, rootlets, grey-brown, moist, some concrete and wood debris	0				92
1		SS2			**SILT** Soft, beige, wet	15				
2		SS3*			**SILTY CLAY** Soft, grey, wet	35				91
					- Dark grey					
3		SS4				45				90
		SS5				15				
4										89
5		SS6				25				88
					End of borehole for environmental purposes at 5.2 m					

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.203 m (OD)
DRILL DATE: November 23, 2022
LOGGED BY: RH
DRILLED BY: CCC Group

Notes: SPLIT SPOON; NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **CHOICE PROPERTIES LIMITED PARTNERSHIP**
PROJECT: **Phase Two Environmental Site Assessment**
ADDRESS: **3850 Cambrian Road Ottawa, ON**
SLR JOB NO: **209.013940.00001**

Monitoring Well LOG

Monitoring Well NO: **BH22-14**
SURFACE ELEVATION: 94.39 m
UTM COORDINATES: UTM ZONE 18T, 5010907.13 N, 441237.15 E

DEPTH (m)	SAMPLE TYPE	SAMPLE ID	SPT COUNT	SOIL TYPE	SOIL DESCRIPTION	FIELD TEST DATA: ORGANIC VAPOUR LEVEL (ppmv)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0		SS1			**TOPSOIL** Sandy, with organics, loose, brown, moist, rootlets	25				94
					Silty SAND Some gravel, compact, moist				bentonite seal	
1		SS2*			- Brick pieces and orange mottling between 0.76 and 1.01 m	40			silica sand	93
2		SS3*			- Some gravel, compact, moist to wet, brick pieces	40				
		SS4*			**SILTY CLAY** Soft, grey, some silt, wet	35		GW = 2.40 mbg (12/06/22)		92
3		SS5*			- Trace silt	35			50 mm 010 slot PVC pipe	91
4										90
		SS6				0			end cap	
5									silica sand	

End of borehole for environmental purposes at 5.2 m

Well Completion Details:
End of Monitoring well at 4.6 mbgs
Screened interval from 1.5 m to 4.6 m below surface
Elevation at top of casing (TOC) = 95.248 m

Groundwater Information:
Depth to groundwater from TOC = 3.25 m (12/06/22)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.203 m (OD)
DRILL DATE: November 23, 2022
LOGGED BY: RH
DRILLED BY: CCC Group

Notes: SPLIT SPOON; NO RECOVERY

Appendix F – Laboratory Certificates

Phase Two Environmental Site Assessment

3850 Cambrian Road
Ottawa, Ontario

Choice Properties Limited Partnership

SLR Project No. 209.013940.00001

March 24, 2023

Your P.O. #: TOR1441
Your Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your C.O.C. #: 907894-01-01

Attention: Pierre D'Angelo

SLR Consulting (Canada) Ltd
501-55 University Ave.
Toronto, ON
Canada M5J 2H7

Report Date: 2022/12/07
Report #: R7420601
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2Y6791
Received: 2022/11/24, 08:30

Sample Matrix: Soil
Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
B[a]P Total Potency Equivalent (1)	3	N/A	2022/12/03		CCME
B[a]P Total Potency Equivalent (1)	8	N/A	2022/12/05		CCME
Hot Water Extractable Boron (1)	3	2022/11/29	2022/12/01	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum (1)	11	N/A	2022/12/01		EPA 8260C m
Hexavalent Chromium in Soil by IC (1, 2)	11	2022/11/29	2022/12/01	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	11	2022/12/02	2022/12/02	CAM SOP-00316	CCME CWS m
CCME Index of Additive Cancer Risk (1)	3	2022/11/28	2022/12/03		CCME PHC-CWS
CCME Index of Additive Cancer Risk (1)	8	2022/11/28	2022/12/05		CCME PHC-CWS
Acid Extractable Metals by ICPMS (1)	11	2022/11/29	2022/11/30	CAM SOP-00447	EPA 6020B m
Moisture (1)	13	N/A	2022/11/28	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	1	2022/12/01	2022/12/02	CAM SOP-00318	EPA 8270D m
PAH Compounds in Soil by GC/MS (SIM) (1)	7	2022/12/01	2022/12/03	CAM SOP-00318	EPA 8270D m
PAH Compounds in Soil by GC/MS (SIM) (1)	3	2022/12/02	2022/12/03	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT (1)	11	2022/11/29	2022/11/29	CAM SOP-00413	EPA 9045 D m
Sieve, 75um (1)	1	N/A	2022/11/29	CAM SOP-00467	ASTM D1140 -17 m
Volatile Organic Compounds and F1 PHCs (1)	11	N/A	2022/11/30	CAM SOP-00230	EPA 8260C m

Remarks:

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

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope

Your P.O. #: TOR1441
Your Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your C.O.C. #: 907894-01-01

Attention: Pierre D'Angelo

SLR Consulting (Canada) Ltd
501-55 University Ave.
Toronto, ON
Canada M5J 2H7

Report Date: 2022/12/07
Report #: R7420601
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2Y6791
Received: 2022/11/24, 08:30

dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) Soils are reported on a dry weight basis unless otherwise specified.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Ronklin Gracian
Project Manager
07 Dec 2022 17:27:30

Please direct all questions regarding this Certificate of Analysis to:
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752
==========
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		UKH204		UKH205				UKH206			
Sampling Date		2022/11/23 08:15		2022/11/23 08:20				2022/11/23 08:30			
COC Number		907894-01-01		907894-01-01				907894-01-01			
	UNITS	BH22-04-SS2	QC Batch	BH22-04-SS3A	RDL	MDL	QC Batch	BH22-04-SS4	RDL	MDL	QC Batch
Inorganics											
Moisture	%	8.1	8372243	17	1.0	0.50	8372367	20	1.0	0.50	8372243
Available (CaCl2) pH	pH	7.79	8373753	7.75			8373753	7.65			8373753
Miscellaneous Parameters											
Grain Size	%							FINE	N/A	N/A	8373260
Sieve - #200 (<0.075mm)	%							58	1	N/A	8373260
Sieve - #200 (>0.075mm)	%							42	1	N/A	8373260

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas ID		UKH207		UKH208		UKH210		UKH211			
Sampling Date		2022/11/23 10:20		2022/11/23 10:25		2022/11/23		2022/11/23 12:02			
COC Number		907894-01-01		907894-01-01		907894-01-01		907894-01-01			
	UNITS	BH22-10-SS2	QC Batch	BH22-10-SS3A	QC Batch	DUP-001	QC Batch	BH22-14-SS2	RDL	MDL	QC Batch
Inorganics											
Moisture	%	4.8	8372243	11	8372281	5.0	8372367	17	1.0	0.50	8372243
Available (CaCl2) pH	pH	7.97	8373753	7.81	8373753						

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		UKH212		UKH213		UKH213		UKH214			
Sampling Date		2022/11/23 12:11		2022/11/23 12:28		2022/11/23 12:28		2022/11/23 12:45			
COC Number		907894-01-01		907894-01-01		907894-01-01		907894-01-01			
	UNITS	BH22-14-SS3	QC Batch	BH22-14-SS4	QC Batch	BH22-14-SS4 Lab-Dup	QC Batch	BH22-14-SS5	RDL	MDL	QC Batch
Inorganics											
Moisture	%	29	8372317	19	8372367	19	8372367	19	1.0	0.50	8372281
Available (CaCl2) pH	pH	7.49	8373753	7.65	8373753			7.54			8373753

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

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		UKH214		UKH215		UKH216		UKH217			
Sampling Date		2022/11/23 12:45		2022/11/23		2022/11/23 14:25		2022/11/23 14:40			
COC Number		907894-01-01		907894-01-01		907894-01-01		907894-01-01			
	UNITS	BH22-14-SS5 Lab-Dup	QC Batch	DUP-002	QC Batch	BH22-13-SS1	QC Batch	BH22-13-SS3	RDL	MDL	QC Batch
Inorganics											
Moisture	%	19	8372281	19	8372317	13	8372367	22	1.0	0.50	8372243
Available (CaCl2) pH	pH			7.58	8373753	7.62	8373753	7.64			8373753

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

Bureau Veritas ID		UKH217			
Sampling Date		2022/11/23 14:40			
COC Number		907894-01-01			
	UNITS	BH22-13-SS3 Lab-Dup	RDL	MDL	QC Batch
Inorganics					
Moisture	%	21	1.0	0.50	8372243
Available (CaCl2) pH	pH	7.65			8373753

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

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKH204				UKH205	UKH206			
Sampling Date		2022/11/23 08:15				2022/11/23 08:20	2022/11/23 08:30			
COC Number		907894-01-01				907894-01-01	907894-01-01			
	UNITS	BH22-04-SS2	RDL	MDL	QC Batch	BH22-04-SS3A	BH22-04-SS4	RDL	MDL	QC Batch
Inorganics										
Chromium (VI)	ug/g	<0.18	0.18	0.050	8373833	<0.18	<0.18	0.18	0.050	8373833
Metals										
Hot Water Ext. Boron (B)	ug/g	0.083	0.050	0.030	8374017					
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8373657	<0.20	<0.20	0.20	0.10	8373657
Acid Extractable Arsenic (As)	ug/g	1.5	1.0	0.10	8373657	1.3	1.7	1.0	0.10	8373657
Acid Extractable Barium (Ba)	ug/g	63	0.50	0.30	8373657	70	78	0.50	0.30	8373657
Acid Extractable Beryllium (Be)	ug/g	0.33	0.20	0.020	8373657	0.36	0.27	0.20	0.020	8373657
Acid Extractable Boron (B)	ug/g	5.3	5.0	1.0	8373657	5.5	<5.0	5.0	1.0	8373657
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8373657	<0.10	<0.10	0.10	0.030	8373657
Acid Extractable Chromium (Cr)	ug/g	16	1.0	0.20	8373657	17	17	1.0	0.20	8373657
Acid Extractable Cobalt (Co)	ug/g	6.9	0.10	0.020	8373657	5.8	5.6	0.10	0.020	8373657
Acid Extractable Copper (Cu)	ug/g	15	0.50	0.20	8373657	15	10	0.50	0.20	8373657
Acid Extractable Lead (Pb)	ug/g	4.9	1.0	0.10	8373657	5.2	3.1	1.0	0.10	8373657
Acid Extractable Molybdenum (Mo)	ug/g	0.57	0.50	0.10	8373657	0.75	<0.50	0.50	0.10	8373657
Acid Extractable Nickel (Ni)	ug/g	12	0.50	0.20	8373657	12	10	0.50	0.20	8373657
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8373657	<0.50	<0.50	0.50	0.10	8373657
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8373657	<0.20	<0.20	0.20	0.040	8373657
Acid Extractable Thallium (Tl)	ug/g	0.12	0.050	0.010	8373657	0.14	0.083	0.050	0.010	8373657
Acid Extractable Uranium (U)	ug/g	0.53	0.050	0.030	8373657	0.50	0.65	0.050	0.030	8373657
Acid Extractable Vanadium (V)	ug/g	26	5.0	0.50	8373657	27	30	5.0	0.50	8373657
Acid Extractable Zinc (Zn)	ug/g	25	5.0	0.50	8373657	25	27	5.0	0.50	8373657
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	8373657	<0.050	<0.050	0.050	0.030	8373657

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKH207				UKH208			
Sampling Date		2022/11/23 10:20				2022/11/23 10:25			
COC Number		907894-01-01				907894-01-01			
	UNITS	**BH22-10-SS2**	**RDL**	**MDL**	**QC Batch**	**BH22-10-SS3A**	**RDL**	**MDL**	**QC Batch**
Inorganics									
Chromium (VI)	ug/g	<0.18	0.18	0.050	8373833	<0.18	0.18	0.050	8373833
Metals									
Hot Water Ext. Boron (B)	ug/g	<0.050	0.050	0.030	8374017				
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8373657	<0.20	0.20	0.10	8373657
Acid Extractable Arsenic (As)	ug/g	<1.0	1.0	0.10	8373657	<1.0	1.0	0.10	8373657
Acid Extractable Barium (Ba)	ug/g	12	0.50	0.30	8373657	14	0.50	0.30	8373657
Acid Extractable Beryllium (Be)	ug/g	<0.20	0.20	0.020	8373657	<0.20	0.20	0.020	8373657
Acid Extractable Boron (B)	ug/g	<5.0	5.0	1.0	8373657	<5.0	5.0	1.0	8373657
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8373657	<0.10	0.10	0.030	8373657
Acid Extractable Chromium (Cr)	ug/g	7.5	1.0	0.20	8373657	8.6	1.0	0.20	8373657
Acid Extractable Cobalt (Co)	ug/g	4.0	0.10	0.020	8373657	4.6	0.10	0.020	8373657
Acid Extractable Copper (Cu)	ug/g	8.5	0.50	0.20	8373657	9.8	0.50	0.20	8373657
Acid Extractable Lead (Pb)	ug/g	2.3	1.0	0.10	8373657	2.5	1.0	0.10	8373657
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	0.10	8373657	<0.50	0.50	0.10	8373657
Acid Extractable Nickel (Ni)	ug/g	6.3	0.50	0.20	8373657	7.9	0.50	0.20	8373657
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8373657	<0.50	0.50	0.10	8373657
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8373657	<0.20	0.20	0.040	8373657
Acid Extractable Thallium (Tl)	ug/g	0.056	0.050	0.010	8373657	0.065	0.050	0.010	8373657
Acid Extractable Uranium (U)	ug/g	0.36	0.050	0.030	8373657	0.34	0.050	0.030	8373657
Acid Extractable Vanadium (V)	ug/g	17	5.0	0.50	8373657	17	5.0	0.50	8373657
Acid Extractable Zinc (Zn)	ug/g	9.7	5.0	0.50	8373657	12	5.0	0.50	8373657
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	8373657	<0.050	0.050	0.030	8373657

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKH208				UKH212	UKH213			
Sampling Date		2022/11/23 10:25				2022/11/23 12:11	2022/11/23 12:28			
COC Number		907894-01-01				907894-01-01	907894-01-01			
	UNITS	BH22-10-SS3A Lab-Dup	RDL	MDL	QC Batch	BH22-14-SS3	BH22-14-SS4	RDL	MDL	QC Batch
Inorganics										
Chromium (VI)	ug/g	<0.18	0.18	0.050	8373833	<0.18	<0.18	0.18	0.050	8373833
Metals										
Acid Extractable Antimony (Sb)	ug/g					<0.20	<0.20	0.20	0.10	8373657
Acid Extractable Arsenic (As)	ug/g					1.3	<1.0	1.0	0.10	8373657
Acid Extractable Barium (Ba)	ug/g					140	50	0.50	0.30	8373657
Acid Extractable Beryllium (Be)	ug/g					0.49	0.24	0.20	0.020	8373657
Acid Extractable Boron (B)	ug/g					<5.0	<5.0	5.0	1.0	8373657
Acid Extractable Cadmium (Cd)	ug/g					<0.10	<0.10	0.10	0.030	8373657
Acid Extractable Chromium (Cr)	ug/g					26	16	1.0	0.20	8373657
Acid Extractable Cobalt (Co)	ug/g					8.1	4.3	0.10	0.020	8373657
Acid Extractable Copper (Cu)	ug/g					18	9.0	0.50	0.20	8373657
Acid Extractable Lead (Pb)	ug/g					6.5	2.6	1.0	0.10	8373657
Acid Extractable Molybdenum (Mo)	ug/g					0.57	<0.50	0.50	0.10	8373657
Acid Extractable Nickel (Ni)	ug/g					16	8.8	0.50	0.20	8373657
Acid Extractable Selenium (Se)	ug/g					<0.50	<0.50	0.50	0.10	8373657
Acid Extractable Silver (Ag)	ug/g					<0.20	<0.20	0.20	0.040	8373657
Acid Extractable Thallium (Tl)	ug/g					0.18	0.075	0.050	0.010	8373657
Acid Extractable Uranium (U)	ug/g					0.56	0.65	0.050	0.030	8373657
Acid Extractable Vanadium (V)	ug/g					37	26	5.0	0.50	8373657
Acid Extractable Zinc (Zn)	ug/g					37	21	5.0	0.50	8373657
Acid Extractable Mercury (Hg)	ug/g					<0.050	<0.050	0.050	0.030	8373657

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

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKH214	UKH215				UKH216			
Sampling Date		2022/11/23 12:45	2022/11/23				2022/11/23 14:25			
COC Number		907894-01-01	907894-01-01				907894-01-01			
	UNITS	BH22-14-SS5	DUP-002	RDL	MDL	QC Batch	BH22-13-SS1	RDL	MDL	QC Batch
Inorganics										
Chromium (VI)	ug/g	<0.18	<0.18	0.18	0.050	8373833	<0.18	0.18	0.050	8373833
Metals										
Hot Water Ext. Boron (B)	ug/g						0.35	0.050	0.030	8374017
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	0.20	0.10	8373657	<0.20	0.20	0.10	8373657
Acid Extractable Arsenic (As)	ug/g	<1.0	1.3	1.0	0.10	8373657	1.5	1.0	0.10	8373657
Acid Extractable Barium (Ba)	ug/g	66	44	0.50	0.30	8373657	170	0.50	0.30	8373657
Acid Extractable Beryllium (Be)	ug/g	0.26	0.27	0.20	0.020	8373657	0.45	0.20	0.020	8373657
Acid Extractable Boron (B)	ug/g	<5.0	5.8	5.0	1.0	8373657	6.3	5.0	1.0	8373657
Acid Extractable Cadmium (Cd)	ug/g	<0.10	<0.10	0.10	0.030	8373657	<0.10	0.10	0.030	8373657
Acid Extractable Chromium (Cr)	ug/g	16	12	1.0	0.20	8373657	31	1.0	0.20	8373657
Acid Extractable Cobalt (Co)	ug/g	5.1	5.5	0.10	0.020	8373657	9.7	0.10	0.020	8373657
Acid Extractable Copper (Cu)	ug/g	9.7	12	0.50	0.20	8373657	19	0.50	0.20	8373657
Acid Extractable Lead (Pb)	ug/g	3.0	5.9	1.0	0.10	8373657	7.5	1.0	0.10	8373657
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.54	0.50	0.10	8373657	0.89	0.50	0.10	8373657
Acid Extractable Nickel (Ni)	ug/g	10	10	0.50	0.20	8373657	20	0.50	0.20	8373657
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	0.10	8373657	<0.50	0.50	0.10	8373657
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	0.040	8373657	<0.20	0.20	0.040	8373657
Acid Extractable Thallium (Tl)	ug/g	0.080	0.16	0.050	0.010	8373657	0.21	0.050	0.010	8373657
Acid Extractable Uranium (U)	ug/g	0.50	0.47	0.050	0.030	8373657	0.73	0.050	0.030	8373657
Acid Extractable Vanadium (V)	ug/g	28	22	5.0	0.50	8373657	43	5.0	0.50	8373657
Acid Extractable Zinc (Zn)	ug/g	26	20	5.0	0.50	8373657	48	5.0	0.50	8373657
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	0.050	0.030	8373657	<0.050	0.050	0.030	8373657

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKH217			
Sampling Date		2022/11/23 14:40			
COC Number		907894-01-01			
	UNITS	BH22-13-SS3	RDL	MDL	QC Batch
Inorganics					
Chromium (VI)	ug/g	<0.18	0.18	0.050	8373833
Metals					
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8373657
Acid Extractable Arsenic (As)	ug/g	1.1	1.0	0.10	8373657
Acid Extractable Barium (Ba)	ug/g	87	0.50	0.30	8373657
Acid Extractable Beryllium (Be)	ug/g	0.29	0.20	0.020	8373657
Acid Extractable Boron (B)	ug/g	5.3	5.0	1.0	8373657
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8373657
Acid Extractable Chromium (Cr)	ug/g	19	1.0	0.20	8373657
Acid Extractable Cobalt (Co)	ug/g	6.1	0.10	0.020	8373657
Acid Extractable Copper (Cu)	ug/g	10	0.50	0.20	8373657
Acid Extractable Lead (Pb)	ug/g	3.5	1.0	0.10	8373657
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	0.10	8373657
Acid Extractable Nickel (Ni)	ug/g	11	0.50	0.20	8373657
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8373657
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8373657
Acid Extractable Thallium (Tl)	ug/g	0.096	0.050	0.010	8373657
Acid Extractable Uranium (U)	ug/g	0.62	0.050	0.030	8373657
Acid Extractable Vanadium (V)	ug/g	32	5.0	0.50	8373657
Acid Extractable Zinc (Zn)	ug/g	31	5.0	0.50	8373657
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	8373657

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		UKH204	UKH205		UKH206	UKH207			
Sampling Date		2022/11/23 08:15	2022/11/23 08:20		2022/11/23 08:30	2022/11/23 10:20			
COC Number		907894-01-01	907894-01-01		907894-01-01	907894-01-01			
	UNITS	BH22-04-SS2	BH22-04-SS3A	QC Batch	BH22-04-SS4	BH22-10-SS2	RDL	MDL	QC Batch
Calculated Parameters									
Benzo(a)pyrene Total Potency Equiv.	ug/g	<0.01	<0.01	8371398	<0.01	<0.01	0.01	N/A	8371398
Index of Additive Cancer Risk -IACR	N/A	<0.1	<0.1	8371400	<0.1	<0.1	0.1	N/A	8371400
Polyaromatic Hydrocarbons									
Benzo(e)pyrene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	N/A	8377525
Acenaphthene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0020	8377525
Acenaphthylene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0010	8377525
Anthracene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0010	8377525
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0020	8377525
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0010	8377525
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0020	8377525
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0040	8377525
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0020	8377525
Chrysene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0020	8377525
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0040	8377525
Fluoranthene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0010	8377525
Fluorene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0010	8377525
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0040	8377525
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0010	8377525
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0010	8377525
Naphthalene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0010	8377525
Phenanthrene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0010	8377525
Pyrene	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	0.0010	8377525
Biphenyl	ug/g	<0.0050	<0.0050	8380141	<0.0050	<0.0050	0.0050	N/A	8377525
Perylene	ug/g	0.0085	<0.0050	8380141	<0.0050	<0.0050	0.0050	N/A	8377525
Surrogate Recovery (%)									
D10-Anthracene	%	89	88	8380141	94	98			8377525
D14-Terphenyl (FS)	%	85	85	8380141	93	97			8377525
D8-Acenaphthylene	%	85	85	8380141	98	101			8377525

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		UKH208	UKH210				UKH210			
Sampling Date		2022/11/23 10:25	2022/11/23				2022/11/23			
COC Number		907894-01-01	907894-01-01				907894-01-01			
	UNITS	BH22-10-SS3A	DUP-001	RDL	MDL	QC Batch	DUP-001 Lab-Dup	RDL	MDL	QC Batch
Calculated Parameters										
Benzo(a)pyrene Total Potency Equiv.	ug/g	<0.01	<0.01	0.01	N/A	8371398				
Index of Additive Cancer Risk -IACR	N/A	<0.1	<0.1	0.1	N/A	8371400				
Polyaromatic Hydrocarbons										
Benzo(e)pyrene	ug/g	<0.0050	<0.0050	0.0050	N/A	8377525	<0.0050	0.0050	N/A	8377525
Acenaphthene	ug/g	<0.0050	<0.0050	0.0050	0.0020	8377525	<0.0050	0.0050	0.0020	8377525
Acenaphthylene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8377525	<0.0050	0.0050	0.0010	8377525
Anthracene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8377525	<0.0050	0.0050	0.0010	8377525
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	0.0050	0.0020	8377525	<0.0050	0.0050	0.0020	8377525
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8377525	<0.0050	0.0050	0.0010	8377525
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	0.0020	8377525	<0.0050	0.0050	0.0020	8377525
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	0.0050	0.0040	8377525	<0.0050	0.0050	0.0040	8377525
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	0.0050	0.0020	8377525	<0.0050	0.0050	0.0020	8377525
Chrysene	ug/g	<0.0050	<0.0050	0.0050	0.0020	8377525	<0.0050	0.0050	0.0020	8377525
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	0.0050	0.0040	8377525	<0.0050	0.0050	0.0040	8377525
Fluoranthene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8377525	<0.0050	0.0050	0.0010	8377525
Fluorene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8377525	<0.0050	0.0050	0.0010	8377525
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	0.0050	0.0040	8377525	<0.0050	0.0050	0.0040	8377525
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8377525	<0.0050	0.0050	0.0010	8377525
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8377525	<0.0050	0.0050	0.0010	8377525
Naphthalene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8377525	<0.0050	0.0050	0.0010	8377525
Phenanthrene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8377525	<0.0050	0.0050	0.0010	8377525
Pyrene	ug/g	<0.0050	<0.0050	0.0050	0.0010	8377525	<0.0050	0.0050	0.0010	8377525
Biphenyl	ug/g	<0.0050	<0.0050	0.0050	N/A	8377525	<0.0050	0.0050	N/A	8377525
Perylene	ug/g	<0.0050	<0.0050	0.0050	N/A	8377525	<0.0050	0.0050	N/A	8377525
Surrogate Recovery (%)										
D10-Anthracene	%	99	94			8377525	98			8377525
D14-Terphenyl (FS)	%	97	92			8377525	98			8377525
D8-Acenaphthylene	%	99	91			8377525	94			8377525

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		UKH211		UKH213	UKH214	UKH216			
Sampling Date		2022/11/23 12:02		2022/11/23 12:28	2022/11/23 12:45	2022/11/23 14:25			
COC Number		907894-01-01		907894-01-01	907894-01-01	907894-01-01			
	UNITS	BH22-14-SS2	QC Batch	BH22-14-SS4	BH22-14-SS5	BH22-13-SS1	RDL	MDL	QC Batch
Calculated Parameters									
Benzo(a)pyrene Total Potency Equiv.	ug/g	<0.01	8371398	<0.01	<0.01	<0.01	0.01	N/A	8371398
Index of Additive Cancer Risk -IACR	N/A	<0.1	8371400	<0.1	<0.1	<0.1	0.1	N/A	8371400
Polyaromatic Hydrocarbons									
Benzo(e)pyrene	ug/g	<0.0050	8380141	<0.0050	<0.0050	0.0075	0.0050	N/A	8377525
Acenaphthene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8377525
Acenaphthylene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8377525
Anthracene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8377525
Benzo(a)anthracene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8377525
Benzo(a)pyrene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8377525
Benzo(b/j)fluoranthene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8377525
Benzo(g,h,i)perylene	ug/g	<0.0050	8380141	<0.0050	<0.0050	0.0079	0.0050	0.0040	8377525
Benzo(k)fluoranthene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8377525
Chrysene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8377525
Dibenzo(a,h)anthracene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0040	8377525
Fluoranthene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8377525
Fluorene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8377525
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0040	8377525
1-Methylnaphthalene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8377525
2-Methylnaphthalene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8377525
Naphthalene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8377525
Phenanthrene	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8377525
Pyrene	ug/g	<0.0050	8380141	<0.0050	<0.0050	0.0070	0.0050	0.0010	8377525
Biphenyl	ug/g	<0.0050	8380141	<0.0050	<0.0050	<0.0050	0.0050	N/A	8377525
Perylene	ug/g	<0.0050	8380141	<0.0050	<0.0050	0.0076	0.0050	N/A	8377525
Surrogate Recovery (%)									
D10-Anthracene	%	89	8380141	92	98	94			8377525
D14-Terphenyl (FS)	%	85	8380141	92	95	93			8377525
D8-Acenaphthylene	%	84	8380141	99	100	100			8377525

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		UKH217			
Sampling Date		2022/11/23 14:40			
COC Number		907894-01-01			
	UNITS	**BH22-13-SS3**	**RDL**	**MDL**	**QC Batch**
Calculated Parameters					
Benzo(a)pyrene Total Potency Equiv.	ug/g	<0.01	0.01	N/A	8371398
Index of Additive Cancer Risk -IACR	N/A	<0.1	0.1	N/A	8371400
Polyaromatic Hydrocarbons					
Benzo(e)pyrene	ug/g	<0.0050	0.0050	N/A	8377525
Acenaphthene	ug/g	<0.0050	0.0050	0.0020	8377525
Acenaphthylene	ug/g	<0.0050	0.0050	0.0010	8377525
Anthracene	ug/g	<0.0050	0.0050	0.0010	8377525
Benzo(a)anthracene	ug/g	<0.0050	0.0050	0.0020	8377525
Benzo(a)pyrene	ug/g	<0.0050	0.0050	0.0010	8377525
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	0.0020	8377525
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	0.0040	8377525
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	0.0020	8377525
Chrysene	ug/g	<0.0050	0.0050	0.0020	8377525
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	0.0040	8377525
Fluoranthene	ug/g	<0.0050	0.0050	0.0010	8377525
Fluorene	ug/g	<0.0050	0.0050	0.0010	8377525
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	0.0040	8377525
1-Methylnaphthalene	ug/g	<0.0050	0.0050	0.0010	8377525
2-Methylnaphthalene	ug/g	<0.0050	0.0050	0.0010	8377525
Naphthalene	ug/g	<0.0050	0.0050	0.0010	8377525
Phenanthrene	ug/g	<0.0050	0.0050	0.0010	8377525
Pyrene	ug/g	<0.0050	0.0050	0.0010	8377525
Biphenyl	ug/g	<0.0050	0.0050	N/A	8377525
Perylene	ug/g	<0.0050	0.0050	N/A	8377525
Surrogate Recovery (%)					
D10-Anthracene	%	98			8377525
D14-Terphenyl (FS)	%	96			8377525
D8-Acenaphthylene	%	101			8377525

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKH204	UKH205	UKH206	UKH207	UKH208			
Sampling Date		2022/11/23 08:15	2022/11/23 08:20	2022/11/23 08:30	2022/11/23 10:20	2022/11/23 10:25			
COC Number		907894-01-01	907894-01-01	907894-01-01	907894-01-01	907894-01-01			
	UNITS	BH22-04-SS2	BH22-04-SS3A	BH22-04-SS4	BH22-10-SS2	BH22-10-SS3A	RDL	MDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.010	8371399
Volatile Organics									
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	<0.49	<0.49	0.49	0.49	8373119
Benzene	ug/g	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	0.0060	8373119
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Bromoform	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Bromomethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Chloroform	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	<0.049	<0.049	0.049	0.049	8373119
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	0.030	8373119
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.010	8373119
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Hexane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	<0.049	<0.049	0.049	0.049	8373119
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	0.40	8373119
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	0.40	8373119
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Styrene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKH204	UKH205	UKH206	UKH207	UKH208			
Sampling Date		2022/11/23 08:15	2022/11/23 08:20	2022/11/23 08:30	2022/11/23 10:20	2022/11/23 10:25			
COC Number		907894-01-01	907894-01-01	907894-01-01	907894-01-01	907894-01-01			
	UNITS	**BH22-04-SS2**	**BH22-04-SS3A**	**BH22-04-SS4**	**BH22-10-SS2**	**BH22-10-SS3A**	**RDL**	**MDL**	**QC Batch**
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8373119
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.010	8373119
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8373119
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	<0.019	<0.019	0.019	0.019	8373119
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8373119
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8373119
Total Xylenes	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8373119
F1 (C6-C10)	ug/g	<10	<10	<10	<10	<10	10	2.0	8373119
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	<10	10	2.0	8373119
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	95	97	98	75	96			8373119
D10-o-Xylene	%	97	102	92	94	98			8373119
D4-1,2-Dichloroethane	%	105	108	111	108	107			8373119
D8-Toluene	%	92	92	91	91	91			8373119

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKH210		UKH211		UKH213			
Sampling Date		2022/11/23		2022/11/23 12:02		2022/11/23 12:28			
COC Number		907894-01-01		907894-01-01		907894-01-01			
	UNITS	DUP-001	QC Batch	BH22-14-SS2	QC Batch	BH22-14-SS4	RDL	MDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	8370566	<0.050	8371399	<0.050	0.050	0.010	8370566
Volatile Organics									
Acetone (2-Propanone)	ug/g	<0.49	8373119	<0.49	8373119	<0.49	0.49	0.49	8373119
Benzene	ug/g	<0.0060	8373119	<0.0060	8373119	<0.0060	0.0060	0.0060	8373119
Bromodichloromethane	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Bromoform	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Bromomethane	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Carbon Tetrachloride	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Chlorobenzene	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Chloroform	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Dibromochloromethane	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
1,2-Dichlorobenzene	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
1,3-Dichlorobenzene	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
1,4-Dichlorobenzene	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
1,1-Dichloroethane	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
1,2-Dichloroethane	ug/g	<0.049	8373119	<0.049	8373119	<0.049	0.049	0.049	8373119
1,1-Dichloroethylene	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
cis-1,2-Dichloroethylene	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
trans-1,2-Dichloroethylene	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
1,2-Dichloropropane	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
cis-1,3-Dichloropropene	ug/g	<0.030	8373119	<0.030	8373119	<0.030	0.030	0.030	8373119
trans-1,3-Dichloropropene	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Ethylbenzene	ug/g	<0.010	8373119	<0.010	8373119	<0.010	0.010	0.010	8373119
Ethylene Dibromide	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Hexane	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Methylene Chloride(Dichloromethane)	ug/g	<0.049	8373119	<0.049	8373119	<0.049	0.049	0.049	8373119
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	8373119	<0.40	8373119	<0.40	0.40	0.40	8373119
Methyl Isobutyl Ketone	ug/g	<0.40	8373119	<0.40	8373119	<0.40	0.40	0.40	8373119
Methyl t-butyl ether (MTBE)	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Styrene	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
1,1,1,2-Tetrachloroethane	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
1,1,2,2-Tetrachloroethane	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKH210		UKH211		UKH213			
Sampling Date		2022/11/23		2022/11/23 12:02		2022/11/23 12:28			
COC Number		907894-01-01		907894-01-01		907894-01-01			
	UNITS	DUP-001	QC Batch	BH22-14-SS2	QC Batch	BH22-14-SS4	RDL	MDL	QC Batch
Tetrachloroethylene	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Toluene	ug/g	<0.020	8373119	<0.020	8373119	<0.020	0.020	0.020	8373119
1,1,1-Trichloroethane	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
1,1,2-Trichloroethane	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Trichloroethylene	ug/g	<0.010	8373119	<0.010	8373119	<0.010	0.010	0.010	8373119
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	8373119	<0.040	8373119	<0.040	0.040	0.040	8373119
Vinyl Chloride	ug/g	<0.019	8373119	<0.019	8373119	<0.019	0.019	0.019	8373119
p+m-Xylene	ug/g	<0.020	8373119	<0.020	8373119	<0.020	0.020	0.020	8373119
o-Xylene	ug/g	<0.020	8373119	<0.020	8373119	<0.020	0.020	0.020	8373119
Total Xylenes	ug/g	<0.020	8373119	<0.020	8373119	<0.020	0.020	0.020	8373119
F1 (C6-C10)	ug/g	<10	8373119	<10	8373119	<10	10	2.0	8373119
F1 (C6-C10) - BTEX	ug/g	<10	8373119	<10	8373119	<10	10	2.0	8373119
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	96	8373119	95	8373119	96			8373119
D10-o-Xylene	%	99	8373119	102	8373119	102			8373119
D4-1,2-Dichloroethane	%	109	8373119	108	8373119	107			8373119
D8-Toluene	%	92	8373119	94	8373119	93			8373119

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKH214	UKH216	UKH217			
Sampling Date		2022/11/23 12:45	2022/11/23 14:25	2022/11/23 14:40			
COC Number		907894-01-01	907894-01-01	907894-01-01			
	UNITS	BH22-14-SS5	BH22-13-SS1	BH22-13-SS3	RDL	MDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	0.010	8370566
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	0.49	0.49	8373119
Benzene	ug/g	<0.0060	<0.0060	<0.0060	0.0060	0.0060	8373119
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Bromoform	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Bromomethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Chloroform	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	0.049	0.049	8373119
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	0.030	8373119
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	0.010	0.010	8373119
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Hexane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	0.049	0.049	8373119
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	0.40	0.40	8373119
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	0.40	0.40	8373119
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Styrene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKH214	UKH216	UKH217			
Sampling Date		2022/11/23 12:45	2022/11/23 14:25	2022/11/23 14:40			
COC Number		907894-01-01	907894-01-01	907894-01-01			
	UNITS	BH22-14-SS5	BH22-13-SS1	BH22-13-SS3	RDL	MDL	QC Batch
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8373119
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	0.010	0.010	8373119
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	0.040	0.040	8373119
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	0.019	0.019	8373119
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8373119
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8373119
Total Xylenes	ug/g	<0.020	<0.020	<0.020	0.020	0.020	8373119
F1 (C6-C10)	ug/g	<10	<10	<10	10	2.0	8373119
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	2.0	8373119
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	95	74	95			8373119
D10-o-Xylene	%	95	93	101			8373119
D4-1,2-Dichloroethane	%	105	96	98			8373119
D8-Toluene	%	94	97	96			8373119

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		UKH204	UKH205	UKH206	UKH207	UKH208	UKH210			
Sampling Date		2022/11/23 08:15	2022/11/23 08:20	2022/11/23 08:30	2022/11/23 10:20	2022/11/23 10:25	2022/11/23			
COC Number		907894-01-01	907894-01-01	907894-01-01	907894-01-01	907894-01-01	907894-01-01			
	UNITS	BH22-04-SS2	BH22-04-SS3A	BH22-04-SS4	BH22-10-SS2	BH22-10-SS3A	DUP-001	RDL	MDL	QC Batch
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	<10	<10	10	5.0	8380172
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	<50	50	5.0	8380172
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	<50	50	10	8380172
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	Yes	Yes			8380172
Surrogate Recovery (%)										
o-Terphenyl	%	93	90	93	98	92	93			8380172

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		UKH210	UKH211	UKH213	UKH214	UKH216	UKH217			
Sampling Date		2022/11/23	2022/11/23 12:02	2022/11/23 12:28	2022/11/23 12:45	2022/11/23 14:25	2022/11/23 14:40			
COC Number		907894-01-01	907894-01-01	907894-01-01	907894-01-01	907894-01-01	907894-01-01			
	UNITS	DUP-001 Lab-Dup	BH22-14-SS2	BH22-14-SS4	BH22-14-SS5	BH22-13-SS1	BH22-13-SS3	RDL	MDL	QC Batch
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	<10	<10	10	5.0	8380172
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	110	<50	50	5.0	8380172
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	150	<50	50	10	8380172
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	Yes	Yes			8380172
Surrogate Recovery (%)										
o-Terphenyl	%	94	92	94	93	90	92			8380172

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

TEST SUMMARY

Bureau Veritas ID: UKH204
Sample ID: BH22-04-SS2
Matrix: Soil

Collected: 2022/11/23
Shipped:
Received: 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/03	Automated Statchk
Hot Water Extractable Boron	ICP	8374017	2022/11/29	2022/12/01	Thuy Linh Nguyen
1,3-Dichloropropene Sum	CALC	8371399	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/03	2022/12/03	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu
Moisture	BAL	8372243	N/A	2022/11/28	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380141	2022/12/02	2022/12/03	Mitesh Raj
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas ID: UKH205
Sample ID: BH22-04-SS3A
Matrix: Soil

Collected: 2022/11/23
Shipped:
Received: 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/03	Automated Statchk
1,3-Dichloropropene Sum	CALC	8371399	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/03	2022/12/03	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu
Moisture	BAL	8372367	N/A	2022/11/28	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380141	2022/12/02	2022/12/03	Mitesh Raj
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas ID: UKH206
Sample ID: BH22-04-SS4
Matrix: Soil

Collected: 2022/11/23
Shipped:
Received: 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8371399	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu
Moisture	BAL	8372243	N/A	2022/11/28	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8377525	2022/12/01	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar
Sieve, 75um	SIEV	8373260	N/A	2022/11/29	Abhijot Kaur
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

TEST SUMMARY

Bureau Veritas ID: UKH207 **Collected:** 2022/11/23
Sample ID: BH22-10-SS2 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/05	Automated Statchk
Hot Water Extractable Boron	ICP	8374017	2022/11/29	2022/12/01	Thuy Linh Nguyen
1,3-Dichloropropene Sum	CALC	8371399	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu
Moisture	BAL	8372243	N/A	2022/11/28	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8377525	2022/12/01	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas ID: UKH208 **Collected:** 2022/11/23
Sample ID: BH22-10-SS3A **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8371399	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu
Moisture	BAL	8372281	N/A	2022/11/28	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8377525	2022/12/01	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas ID: UKH208 Dup **Collected:** 2022/11/23
Sample ID: BH22-10-SS3A **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou

Bureau Veritas ID: UKH210 **Collected:** 2022/11/23
Sample ID: DUP-001 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8370566	N/A	2022/12/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/05	2022/12/05	Automated Statchk
Moisture	BAL	8372367	N/A	2022/11/28	Mathew Bowles

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

TEST SUMMARY

Bureau Veritas ID: UKH210 **Collected:** 2022/11/23
Sample ID: DUP-001 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8377525	2022/12/01	2022/12/02	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas ID: UKH210 Dup **Collected:** 2022/11/23
Sample ID: DUP-001 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8377525	2022/12/01	2022/12/02	Jonghan Yoon

Bureau Veritas ID: UKH211 **Collected:** 2022/11/23
Sample ID: BH22-14-SS2 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/03	Automated Statchk
1,3-Dichloropropene Sum	CALC	8371399	N/A	2022/12/01	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/03	2022/12/03	Automated Statchk
Moisture	BAL	8372243	N/A	2022/11/28	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380141	2022/12/02	2022/12/03	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas ID: UKH212 **Collected:** 2022/11/23
Sample ID: BH22-14-SS3 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu
Moisture	BAL	8372317	N/A	2022/11/28	Mathew Bowles
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar

Bureau Veritas ID: UKH213 **Collected:** 2022/11/23
Sample ID: BH22-14-SS4 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8370566	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu

TEST SUMMARY

Bureau Veritas ID: UKH213 **Collected:** 2022/11/23
Sample ID: BH22-14-SS4 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8372367	N/A	2022/11/28	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8377525	2022/12/01	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas ID: UKH213 Dup **Collected:** 2022/11/23
Sample ID: BH22-14-SS4 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8372367	N/A	2022/11/28	Mathew Bowles

Bureau Veritas ID: UKH214 **Collected:** 2022/11/23
Sample ID: BH22-14-SS5 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8370566	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu
Moisture	BAL	8372281	N/A	2022/11/28	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8377525	2022/12/01	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas ID: UKH214 Dup **Collected:** 2022/11/23
Sample ID: BH22-14-SS5 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8372281	N/A	2022/11/28	Mathew Bowles

Bureau Veritas ID: UKH215 **Collected:** 2022/11/23
Sample ID: DUP-002 **Shipped:**
Matrix: Soil **Received:** 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu
Moisture	BAL	8372317	N/A	2022/11/28	Mathew Bowles
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar

TEST SUMMARY

Bureau Veritas ID: UKH216
Sample ID: BH22-13-SS1
Matrix: Soil

Collected: 2022/11/23
Shipped:
Received: 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/05	Automated Statchk
Hot Water Extractable Boron	ICP	8374017	2022/11/29	2022/12/01	Thuy Linh Nguyen
1,3-Dichloropropene Sum	CALC	8370566	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu
Moisture	BAL	8372367	N/A	2022/11/28	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8377525	2022/12/01	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas ID: UKH217
Sample ID: BH22-13-SS3
Matrix: Soil

Collected: 2022/11/23
Shipped:
Received: 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8371398	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8370566	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8373833	2022/11/29	2022/12/01	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8380172	2022/12/02	2022/12/02	(Kent) Maolin Li
CCME Index of Additive Cancer Risk	CALC	8371400	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8373657	2022/11/29	2022/11/30	Daniel Teclu
Moisture	BAL	8372243	N/A	2022/11/28	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8377525	2022/12/01	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8373119	N/A	2022/11/30	Blair Gannon

Bureau Veritas ID: UKH217 Dup
Sample ID: BH22-13-SS3
Matrix: Soil

Collected: 2022/11/23
Shipped:
Received: 2022/11/24

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8372243	N/A	2022/11/28	Mathew Bowles
pH CaCl2 EXTRACT	AT	8373753	2022/11/29	2022/11/29	Taslima Aktar

GENERAL COMMENTS

Revised Report [2022/12/07]: Biphenyl included as per client request.
Revised Report [2022/12/06]: Site location updated as per client request.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8372243	MUC	RPD [UKH217-02]	Moisture	2022/11/28	2.8		%	20
8372281	MUC	RPD [UKH214-02]	Moisture	2022/11/28	2.7		%	20
8372317	MUC	RPD	Moisture	2022/11/28	2.5		%	20
8372367	MUC	RPD [UKH213-02]	Moisture	2022/11/28	3.7		%	20
8373119	BG1	Matrix Spike	4-Bromofluorobenzene	2022/11/30		107	%	60 - 140
			D10-o-Xylene	2022/11/30		107	%	60 - 130
			D4-1,2-Dichloroethane	2022/11/30		96	%	60 - 140
			D8-Toluene	2022/11/30		104	%	60 - 140
			Acetone (2-Propanone)	2022/11/30		87	%	60 - 140
			Benzene	2022/11/30		94	%	60 - 140
			Bromodichloromethane	2022/11/30		100	%	60 - 140
			Bromoform	2022/11/30		93	%	60 - 140
			Bromomethane	2022/11/30		108	%	60 - 140
			Carbon Tetrachloride	2022/11/30		112	%	60 - 140
			Chlorobenzene	2022/11/30		97	%	60 - 140
			Chloroform	2022/11/30		103	%	60 - 140
			Dibromochloromethane	2022/11/30		94	%	60 - 140
			1,2-Dichlorobenzene	2022/11/30		93	%	60 - 140
			1,3-Dichlorobenzene	2022/11/30		97	%	60 - 140
			1,4-Dichlorobenzene	2022/11/30		109	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2022/11/30		131	%	60 - 140
			1,1-Dichloroethane	2022/11/30		100	%	60 - 140
			1,2-Dichloroethane	2022/11/30		89	%	60 - 140
			1,1-Dichloroethylene	2022/11/30		107	%	60 - 140
			cis-1,2-Dichloroethylene	2022/11/30		103	%	60 - 140
			trans-1,2-Dichloroethylene	2022/11/30		107	%	60 - 140
			1,2-Dichloropropane	2022/11/30		92	%	60 - 140
			cis-1,3-Dichloropropene	2022/11/30		93	%	60 - 140
			trans-1,3-Dichloropropene	2022/11/30		95	%	60 - 140
			Ethylbenzene	2022/11/30		86	%	60 - 140
			Ethylene Dibromide	2022/11/30		86	%	60 - 140
			Hexane	2022/11/30		111	%	60 - 140
			Methylene Chloride(Dichloromethane)	2022/11/30		99	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2022/11/30		81	%	60 - 140
			Methyl Isobutyl Ketone	2022/11/30		73	%	60 - 140
			Methyl t-butyl ether (MTBE)	2022/11/30		82	%	60 - 140
			Styrene	2022/11/30		100	%	60 - 140
			1,1,1,2-Tetrachloroethane	2022/11/30		102	%	60 - 140
			1,1,2,2-Tetrachloroethane	2022/11/30		82	%	60 - 140
			Tetrachloroethylene	2022/11/30		106	%	60 - 140
			Toluene	2022/11/30		91	%	60 - 140
			1,1,1-Trichloroethane	2022/11/30		112	%	60 - 140
			1,1,2-Trichloroethane	2022/11/30		93	%	60 - 140
			Trichloroethylene	2022/11/30		113	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2022/11/30		114	%	60 - 140
			Vinyl Chloride	2022/11/30		104	%	60 - 140
			p+m-Xylene	2022/11/30		88	%	60 - 140
			o-Xylene	2022/11/30		89	%	60 - 140
			F1 (C6-C10)	2022/11/30		109	%	60 - 140
8373119	BG1	Spiked Blank	4-Bromofluorobenzene	2022/11/30		108	%	60 - 140
			D10-o-Xylene	2022/11/30		94	%	60 - 130
			D4-1,2-Dichloroethane	2022/11/30		102	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D8-Toluene	2022/11/30		104	%	60 - 140
			Acetone (2-Propanone)	2022/11/30		102	%	60 - 140
			Benzene	2022/11/30		95	%	60 - 130
			Bromodichloromethane	2022/11/30		106	%	60 - 130
			Bromoform	2022/11/30		104	%	60 - 130
			Bromomethane	2022/11/30		110	%	60 - 140
			Carbon Tetrachloride	2022/11/30		107	%	60 - 130
			Chlorobenzene	2022/11/30		98	%	60 - 130
			Chloroform	2022/11/30		105	%	60 - 130
			Dibromochloromethane	2022/11/30		102	%	60 - 130
			1,2-Dichlorobenzene	2022/11/30		95	%	60 - 130
			1,3-Dichlorobenzene	2022/11/30		95	%	60 - 130
			1,4-Dichlorobenzene	2022/11/30		108	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2022/11/30		123	%	60 - 140
			1,1-Dichloroethane	2022/11/30		101	%	60 - 130
			1,2-Dichloroethane	2022/11/30		99	%	60 - 130
			1,1-Dichloroethylene	2022/11/30		102	%	60 - 130
			cis-1,2-Dichloroethylene	2022/11/30		106	%	60 - 130
			trans-1,2-Dichloroethylene	2022/11/30		105	%	60 - 130
			1,2-Dichloropropane	2022/11/30		98	%	60 - 130
			cis-1,3-Dichloropropene	2022/11/30		100	%	60 - 130
			trans-1,3-Dichloropropene	2022/11/30		103	%	60 - 130
			Ethylbenzene	2022/11/30		84	%	60 - 130
			Ethylene Dibromide	2022/11/30		96	%	60 - 130
			Hexane	2022/11/30		105	%	60 - 130
			Methylene Chloride(Dichloromethane)	2022/11/30		105	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/11/30		100	%	60 - 140
			Methyl Isobutyl Ketone	2022/11/30		96	%	60 - 130
			Methyl t-butyl ether (MTBE)	2022/11/30		91	%	60 - 130
			Styrene	2022/11/30		104	%	60 - 130
			1,1,1,2-Tetrachloroethane	2022/11/30		105	%	60 - 130
			1,1,2,2-Tetrachloroethane	2022/11/30		94	%	60 - 130
			Tetrachloroethylene	2022/11/30		101	%	60 - 130
			Toluene	2022/11/30		92	%	60 - 130
			1,1,1-Trichloroethane	2022/11/30		109	%	60 - 130
			1,1,2-Trichloroethane	2022/11/30		102	%	60 - 130
			Trichloroethylene	2022/11/30		110	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2022/11/30		109	%	60 - 130
			Vinyl Chloride	2022/11/30		100	%	60 - 130
			p+m-Xylene	2022/11/30		87	%	60 - 130
			o-Xylene	2022/11/30		90	%	60 - 130
			F1 (C6-C10)	2022/11/30		97	%	80 - 120
8373119	BG1	Method Blank	4-Bromofluorobenzene	2022/11/30		94	%	60 - 140
			D10-o-Xylene	2022/11/30		98	%	60 - 130
			D4-1,2-Dichloroethane	2022/11/30		93	%	60 - 140
			D8-Toluene	2022/11/30		97	%	60 - 140
			Acetone (2-Propanone)	2022/11/30	<0.49		ug/g	
			Benzene	2022/11/30	<0.0060		ug/g	
			Bromodichloromethane	2022/11/30	<0.040		ug/g	
			Bromoform	2022/11/30	<0.040		ug/g	
			Bromomethane	2022/11/30	<0.040		ug/g	
			Carbon Tetrachloride	2022/11/30	<0.040		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chlorobenzene	2022/11/30	<0.040		ug/g	
			Chloroform	2022/11/30	<0.040		ug/g	
			Dibromochloromethane	2022/11/30	<0.040		ug/g	
			1,2-Dichlorobenzene	2022/11/30	<0.040		ug/g	
			1,3-Dichlorobenzene	2022/11/30	<0.040		ug/g	
			1,4-Dichlorobenzene	2022/11/30	<0.040		ug/g	
			Dichlorodifluoromethane (FREON 12)	2022/11/30	<0.040		ug/g	
			1,1-Dichloroethane	2022/11/30	<0.040		ug/g	
			1,2-Dichloroethane	2022/11/30	<0.049		ug/g	
			1,1-Dichloroethylene	2022/11/30	<0.040		ug/g	
			cis-1,2-Dichloroethylene	2022/11/30	<0.040		ug/g	
			trans-1,2-Dichloroethylene	2022/11/30	<0.040		ug/g	
			1,2-Dichloropropane	2022/11/30	<0.040		ug/g	
			cis-1,3-Dichloropropene	2022/11/30	<0.030		ug/g	
			trans-1,3-Dichloropropene	2022/11/30	<0.040		ug/g	
			Ethylbenzene	2022/11/30	<0.010		ug/g	
			Ethylene Dibromide	2022/11/30	<0.040		ug/g	
			Hexane	2022/11/30	<0.040		ug/g	
			Methylene Chloride(Dichloromethane)	2022/11/30	<0.049		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2022/11/30	<0.40		ug/g	
			Methyl Isobutyl Ketone	2022/11/30	<0.40		ug/g	
			Methyl t-butyl ether (MTBE)	2022/11/30	<0.040		ug/g	
			Styrene	2022/11/30	<0.040		ug/g	
			1,1,1,2-Tetrachloroethane	2022/11/30	<0.040		ug/g	
			1,1,2,2-Tetrachloroethane	2022/11/30	<0.040		ug/g	
			Tetrachloroethylene	2022/11/30	<0.040		ug/g	
			Toluene	2022/11/30	<0.020		ug/g	
			1,1,1-Trichloroethane	2022/11/30	<0.040		ug/g	
			1,1,2-Trichloroethane	2022/11/30	<0.040		ug/g	
			Trichloroethylene	2022/11/30	<0.010		ug/g	
			Trichlorofluoromethane (FREON 11)	2022/11/30	<0.040		ug/g	
			Vinyl Chloride	2022/11/30	<0.019		ug/g	
			p+m-Xylene	2022/11/30	<0.020		ug/g	
			o-Xylene	2022/11/30	<0.020		ug/g	
			Total Xylenes	2022/11/30	<0.020		ug/g	
			F1 (C6-C10)	2022/11/30	<10		ug/g	
			F1 (C6-C10) - BTEX	2022/11/30	<10		ug/g	
8373119	BG1	RPD	Benzene	2022/11/30	NC		%	50
			Ethylbenzene	2022/11/30	NC		%	50
			Toluene	2022/11/30	0.69		%	50
			p+m-Xylene	2022/11/30	NC		%	50
			o-Xylene	2022/11/30	NC		%	50
			Total Xylenes	2022/11/30	NC		%	50
			F1 (C6-C10)	2022/11/30	NC		%	30
			F1 (C6-C10) - BTEX	2022/11/30	NC		%	30
8373260	MUC	QC Standard	Sieve - #200 (<0.075mm)	2022/11/29		56	%	53 - 58
			Sieve - #200 (>0.075mm)	2022/11/29		44	%	42 - 47
8373260	MUC	RPD	Sieve - #200 (<0.075mm)	2022/11/29	9.4		%	20
			Sieve - #200 (>0.075mm)	2022/11/29	7.4		%	20
8373657	DT1	Matrix Spike	Acid Extractable Antimony (Sb)	2022/11/30		93	%	75 - 125
			Acid Extractable Arsenic (As)	2022/11/30		94	%	75 - 125
			Acid Extractable Barium (Ba)	2022/11/30		NC	%	75 - 125

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Beryllium (Be)	2022/11/30		97	%	75 - 125
			Acid Extractable Boron (B)	2022/11/30		94	%	75 - 125
			Acid Extractable Cadmium (Cd)	2022/11/30		98	%	75 - 125
			Acid Extractable Chromium (Cr)	2022/11/30		92	%	75 - 125
			Acid Extractable Cobalt (Co)	2022/11/30		95	%	75 - 125
			Acid Extractable Copper (Cu)	2022/11/30		94	%	75 - 125
			Acid Extractable Lead (Pb)	2022/11/30		95	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2022/11/30		99	%	75 - 125
			Acid Extractable Nickel (Ni)	2022/11/30		94	%	75 - 125
			Acid Extractable Selenium (Se)	2022/11/30		98	%	75 - 125
			Acid Extractable Silver (Ag)	2022/11/30		98	%	75 - 125
			Acid Extractable Thallium (Tl)	2022/11/30		96	%	75 - 125
			Acid Extractable Uranium (U)	2022/11/30		95	%	75 - 125
			Acid Extractable Vanadium (V)	2022/11/30		92	%	75 - 125
			Acid Extractable Zinc (Zn)	2022/11/30		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2022/11/30		94	%	75 - 125
8373657	DT1	Spiked Blank	Acid Extractable Antimony (Sb)	2022/11/30		96	%	80 - 120
			Acid Extractable Arsenic (As)	2022/11/30		99	%	80 - 120
			Acid Extractable Barium (Ba)	2022/11/30		97	%	80 - 120
			Acid Extractable Beryllium (Be)	2022/11/30		99	%	80 - 120
			Acid Extractable Boron (B)	2022/11/30		98	%	80 - 120
			Acid Extractable Cadmium (Cd)	2022/11/30		97	%	80 - 120
			Acid Extractable Chromium (Cr)	2022/11/30		99	%	80 - 120
			Acid Extractable Cobalt (Co)	2022/11/30		100	%	80 - 120
			Acid Extractable Copper (Cu)	2022/11/30		98	%	80 - 120
			Acid Extractable Lead (Pb)	2022/11/30		97	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2022/11/30		97	%	80 - 120
			Acid Extractable Nickel (Ni)	2022/11/30		102	%	80 - 120
			Acid Extractable Selenium (Se)	2022/11/30		102	%	80 - 120
			Acid Extractable Silver (Ag)	2022/11/30		100	%	80 - 120
			Acid Extractable Thallium (Tl)	2022/11/30		100	%	80 - 120
			Acid Extractable Uranium (U)	2022/11/30		96	%	80 - 120
			Acid Extractable Vanadium (V)	2022/11/30		98	%	80 - 120
			Acid Extractable Zinc (Zn)	2022/11/30		97	%	80 - 120
			Acid Extractable Mercury (Hg)	2022/11/30		99	%	80 - 120
8373657	DT1	Method Blank	Acid Extractable Antimony (Sb)	2022/11/30	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2022/11/30	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2022/11/30	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2022/11/30	<0.20		ug/g	
			Acid Extractable Boron (B)	2022/11/30	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2022/11/30	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2022/11/30	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2022/11/30	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2022/11/30	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2022/11/30	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2022/11/30	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2022/11/30	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2022/11/30	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2022/11/30	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2022/11/30	<0.050		ug/g	
			Acid Extractable Uranium (U)	2022/11/30	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2022/11/30	<5.0		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Zinc (Zn)	2022/11/30	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2022/11/30	<0.050		ug/g	
8373657	DT1	RPD	Acid Extractable Antimony (Sb)	2022/11/30	NC		%	30
			Acid Extractable Arsenic (As)	2022/11/30	0.088		%	30
			Acid Extractable Barium (Ba)	2022/11/30	4.4		%	30
			Acid Extractable Beryllium (Be)	2022/11/30	9.3		%	30
			Acid Extractable Boron (B)	2022/11/30	NC		%	30
			Acid Extractable Cadmium (Cd)	2022/11/30	NC		%	30
			Acid Extractable Chromium (Cr)	2022/11/30	3.7		%	30
			Acid Extractable Cobalt (Co)	2022/11/30	2.1		%	30
			Acid Extractable Copper (Cu)	2022/11/30	5.6		%	30
			Acid Extractable Lead (Pb)	2022/11/30	1.3		%	30
			Acid Extractable Molybdenum (Mo)	2022/11/30	NC		%	30
			Acid Extractable Nickel (Ni)	2022/11/30	3.9		%	30
			Acid Extractable Selenium (Se)	2022/11/30	NC		%	30
			Acid Extractable Silver (Ag)	2022/11/30	NC		%	30
			Acid Extractable Thallium (Tl)	2022/11/30	9.7		%	30
			Acid Extractable Uranium (U)	2022/11/30	16		%	30
			Acid Extractable Vanadium (V)	2022/11/30	7.1		%	30
			Acid Extractable Zinc (Zn)	2022/11/30	0.31		%	30
			Acid Extractable Mercury (Hg)	2022/11/30	NC		%	30
8373753	TAK	Spiked Blank	Available (CaCl2) pH	2022/11/29		99	%	97 - 103
8373753	TAK	RPD [UKH217-01]	Available (CaCl2) pH	2022/11/29	0.19		%	N/A
8373833	SB5	Matrix Spike [UKH208-01]	Chromium (VI)	2022/12/01		82	%	70 - 130
8373833	SB5	Spiked Blank	Chromium (VI)	2022/12/01		93	%	80 - 120
8373833	SB5	Method Blank	Chromium (VI)	2022/12/01	<0.18		ug/g	
8373833	SB5	RPD [UKH208-01]	Chromium (VI)	2022/12/01	NC		%	35
8374017	TLG	Matrix Spike	Hot Water Ext. Boron (B)	2022/12/01		99	%	75 - 125
8374017	TLG	Spiked Blank	Hot Water Ext. Boron (B)	2022/12/01		97	%	75 - 125
8374017	TLG	Method Blank	Hot Water Ext. Boron (B)	2022/12/01	<0.050		ug/g	
8374017	TLG	RPD	Hot Water Ext. Boron (B)	2022/12/01	12		%	40
8377525	JYO	Matrix Spike [UKH210-01]	D10-Anthracene	2022/12/02		95	%	50 - 130
			D14-Terphenyl (FS)	2022/12/02		92	%	50 - 130
			D8-Acenaphthylene	2022/12/02		95	%	50 - 130
			Benzo(e)pyrene	2022/12/02		91	%	50 - 130
			Acenaphthene	2022/12/02		92	%	50 - 130
			Acenaphthylene	2022/12/02		96	%	50 - 130
			Anthracene	2022/12/02		93	%	50 - 130
			Benzo(a)anthracene	2022/12/02		95	%	50 - 130
			Benzo(a)pyrene	2022/12/02		93	%	50 - 130
			Benzo(b/j)fluoranthene	2022/12/02		88	%	50 - 130
			Benzo(g,h,i)perylene	2022/12/02		97	%	50 - 130
			Benzo(k)fluoranthene	2022/12/02		92	%	50 - 130
			Chrysene	2022/12/02		94	%	50 - 130
			Dibenzo(a,h)anthracene	2022/12/02		92	%	50 - 130
			Fluoranthene	2022/12/02		91	%	50 - 130
			Fluorene	2022/12/02		92	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/12/02		96	%	50 - 130
			1-Methylnaphthalene	2022/12/02		90	%	50 - 130
			2-Methylnaphthalene	2022/12/02		83	%	50 - 130
			Naphthalene	2022/12/02		81	%	50 - 130
			Phenanthrene	2022/12/02		91	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Pyrene	2022/12/02		94	%	50 - 130
			Biphenyl	2022/12/02		86	%	50 - 130
			Perylene	2022/12/02		102	%	50 - 130
8377525	JYO	Spiked Blank	D10-Anthracene	2022/12/02		97	%	50 - 130
			D14-Terphenyl (FS)	2022/12/02		97	%	50 - 130
			D8-Acenaphthylene	2022/12/02		101	%	50 - 130
			Benzo(e)pyrene	2022/12/02		95	%	50 - 130
			Acenaphthene	2022/12/02		96	%	50 - 130
			Acenaphthylene	2022/12/02		97	%	50 - 130
			Anthracene	2022/12/02		95	%	50 - 130
			Benzo(a)anthracene	2022/12/02		94	%	50 - 130
			Benzo(a)pyrene	2022/12/02		94	%	50 - 130
			Benzo(b/j)fluoranthene	2022/12/02		90	%	50 - 130
			Benzo(g,h,i)perylene	2022/12/02		101	%	50 - 130
			Benzo(k)fluoranthene	2022/12/02		90	%	50 - 130
			Chrysene	2022/12/02		94	%	50 - 130
			Dibenzo(a,h)anthracene	2022/12/02		98	%	50 - 130
			Fluoranthene	2022/12/02		92	%	50 - 130
			Fluorene	2022/12/02		95	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/12/02		98	%	50 - 130
			1-Methylnaphthalene	2022/12/02		96	%	50 - 130
			2-Methylnaphthalene	2022/12/02		90	%	50 - 130
			Naphthalene	2022/12/02		90	%	50 - 130
			Phenanthrene	2022/12/02		91	%	50 - 130
			Pyrene	2022/12/02		94	%	50 - 130
			Biphenyl	2022/12/02		90	%	50 - 130
			Perylene	2022/12/02		101	%	50 - 130
8377525	JYO	Method Blank	D10-Anthracene	2022/12/02		94	%	50 - 130
			D14-Terphenyl (FS)	2022/12/02		89	%	50 - 130
			D8-Acenaphthylene	2022/12/02		94	%	50 - 130
			Benzo(e)pyrene	2022/12/02	<0.0050		ug/g	
			Acenaphthene	2022/12/02	<0.0050		ug/g	
			Acenaphthylene	2022/12/02	<0.0050		ug/g	
			Anthracene	2022/12/02	<0.0050		ug/g	
			Benzo(a)anthracene	2022/12/02	<0.0050		ug/g	
			Benzo(a)pyrene	2022/12/02	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2022/12/02	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2022/12/02	<0.0050		ug/g	
			Benzo(k)fluoranthene	2022/12/02	<0.0050		ug/g	
			Chrysene	2022/12/02	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2022/12/02	<0.0050		ug/g	
			Fluoranthene	2022/12/02	<0.0050		ug/g	
			Fluorene	2022/12/02	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2022/12/02	<0.0050		ug/g	
			1-Methylnaphthalene	2022/12/02	<0.0050		ug/g	
			2-Methylnaphthalene	2022/12/02	<0.0050		ug/g	
			Naphthalene	2022/12/02	<0.0050		ug/g	
			Phenanthrene	2022/12/02	<0.0050		ug/g	
			Pyrene	2022/12/02	<0.0050		ug/g	
			Biphenyl	2022/12/02	<0.0050		ug/g	
			Perylene	2022/12/02	<0.0050		ug/g	
8377525	JYO	RPD [UKH210-01]	Benzo(e)pyrene	2022/12/02	NC		%	40

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acenaphthene	2022/12/02	NC		%	40
			Acenaphthylene	2022/12/02	NC		%	40
			Anthracene	2022/12/02	NC		%	40
			Benzo(a)anthracene	2022/12/02	NC		%	40
			Benzo(a)pyrene	2022/12/02	NC		%	40
			Benzo(b/j)fluoranthene	2022/12/02	NC		%	40
			Benzo(g,h,i)perylene	2022/12/02	NC		%	40
			Benzo(k)fluoranthene	2022/12/02	NC		%	40
			Chrysene	2022/12/02	NC		%	40
			Dibenzo(a,h)anthracene	2022/12/02	NC		%	40
			Fluoranthene	2022/12/02	NC		%	40
			Fluorene	2022/12/02	NC		%	40
			Indeno(1,2,3-cd)pyrene	2022/12/02	NC		%	40
			1-Methylnaphthalene	2022/12/02	NC		%	40
			2-Methylnaphthalene	2022/12/02	NC		%	40
			Naphthalene	2022/12/02	NC		%	40
			Phenanthrene	2022/12/02	NC		%	40
			Pyrene	2022/12/02	NC		%	40
			Biphenyl	2022/12/02	NC		%	40
			Perylene	2022/12/02	NC		%	50
8380141	RAJ	Matrix Spike	D10-Anthracene	2022/12/03		86	%	50 - 130
			D14-Terphenyl (FS)	2022/12/03		85	%	50 - 130
			D8-Acenaphthylene	2022/12/03		79	%	50 - 130
			Benzo(e)pyrene	2022/12/03		90	%	50 - 130
			Acenaphthene	2022/12/03		86	%	50 - 130
			Acenaphthylene	2022/12/03		81	%	50 - 130
			Anthracene	2022/12/03		89	%	50 - 130
			Benzo(a)anthracene	2022/12/03		89	%	50 - 130
			Benzo(a)pyrene	2022/12/03		85	%	50 - 130
			Benzo(b/j)fluoranthene	2022/12/03		84	%	50 - 130
			Benzo(g,h,i)perylene	2022/12/03		99	%	50 - 130
			Benzo(k)fluoranthene	2022/12/03		82	%	50 - 130
			Chrysene	2022/12/03		90	%	50 - 130
			Dibenzo(a,h)anthracene	2022/12/03		88	%	50 - 130
			Fluoranthene	2022/12/03		83	%	50 - 130
			Fluorene	2022/12/03		85	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/12/03		95	%	50 - 130
			1-Methylnaphthalene	2022/12/03		72	%	50 - 130
			2-Methylnaphthalene	2022/12/03		65	%	50 - 130
			Naphthalene	2022/12/03		58	%	50 - 130
			Phenanthrene	2022/12/03		89	%	50 - 130
			Pyrene	2022/12/03		83	%	50 - 130
			Biphenyl	2022/12/03		75	%	50 - 130
			Perylene	2022/12/03		102	%	50 - 130
8380141	RAJ	Spiked Blank	D10-Anthracene	2022/12/02		91	%	50 - 130
			D14-Terphenyl (FS)	2022/12/02		87	%	50 - 130
			D8-Acenaphthylene	2022/12/02		86	%	50 - 130
			Benzo(e)pyrene	2022/12/02		97	%	50 - 130
			Acenaphthene	2022/12/02		94	%	50 - 130
			Acenaphthylene	2022/12/02		92	%	50 - 130
			Anthracene	2022/12/02		93	%	50 - 130
			Benzo(a)anthracene	2022/12/02		91	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzo(a)pyrene	2022/12/02		90	%	50 - 130
			Benzo(b/j)fluoranthene	2022/12/02		91	%	50 - 130
			Benzo(g,h,i)perylene	2022/12/02		103	%	50 - 130
			Benzo(k)fluoranthene	2022/12/02		87	%	50 - 130
			Chrysene	2022/12/02		93	%	50 - 130
			Dibenzo(a,h)anthracene	2022/12/02		89	%	50 - 130
			Fluoranthene	2022/12/02		88	%	50 - 130
			Fluorene	2022/12/02		89	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/12/02		98	%	50 - 130
			1-Methylnaphthalene	2022/12/02		90	%	50 - 130
			2-Methylnaphthalene	2022/12/02		84	%	50 - 130
			Naphthalene	2022/12/02		85	%	50 - 130
			Phenanthrene	2022/12/02		93	%	50 - 130
			Pyrene	2022/12/02		87	%	50 - 130
			Biphenyl	2022/12/02		86	%	50 - 130
			Perylene	2022/12/02		101	%	50 - 130
8380141	RAJ	Method Blank	D10-Anthracene	2022/12/02		90	%	50 - 130
			D14-Terphenyl (FS)	2022/12/02		89	%	50 - 130
			D8-Acenaphthylene	2022/12/02		88	%	50 - 130
			Benzo(e)pyrene	2022/12/02	<0.0050		ug/g	
			Acenaphthene	2022/12/02	<0.0050		ug/g	
			Acenaphthylene	2022/12/02	<0.0050		ug/g	
			Anthracene	2022/12/02	<0.0050		ug/g	
			Benzo(a)anthracene	2022/12/02	<0.0050		ug/g	
			Benzo(a)pyrene	2022/12/02	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2022/12/02	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2022/12/02	<0.0050		ug/g	
			Benzo(k)fluoranthene	2022/12/02	<0.0050		ug/g	
			Chrysene	2022/12/02	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2022/12/02	<0.0050		ug/g	
			Fluoranthene	2022/12/02	<0.0050		ug/g	
			Fluorene	2022/12/02	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2022/12/02	<0.0050		ug/g	
			1-Methylnaphthalene	2022/12/02	<0.0050		ug/g	
			2-Methylnaphthalene	2022/12/02	<0.0050		ug/g	
			Naphthalene	2022/12/02	<0.0050		ug/g	
			Phenanthrene	2022/12/02	<0.0050		ug/g	
			Pyrene	2022/12/02	<0.0050		ug/g	
			Biphenyl	2022/12/02	<0.0050		ug/g	
			Perylene	2022/12/02	<0.0050		ug/g	
8380141	RAJ	RPD	Acenaphthene	2022/12/03	NC		%	40
			Acenaphthylene	2022/12/03	NC		%	40
			Anthracene	2022/12/03	NC		%	40
			Benzo(a)anthracene	2022/12/03	NC		%	40
			Benzo(a)pyrene	2022/12/03	NC		%	40
			Benzo(b/j)fluoranthene	2022/12/03	NC		%	40
			Benzo(g,h,i)perylene	2022/12/03	NC		%	40
			Benzo(k)fluoranthene	2022/12/03	NC		%	40
			Chrysene	2022/12/03	NC		%	40
			Dibenzo(a,h)anthracene	2022/12/03	NC		%	40
			Fluoranthene	2022/12/03	NC		%	40
			Fluorene	2022/12/03	NC		%	40

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Indeno(1,2,3-cd)pyrene	2022/12/03	NC		%	40
			1-Methylnaphthalene	2022/12/03	NC		%	40
			2-Methylnaphthalene	2022/12/03	NC		%	40
			Naphthalene	2022/12/03	NC		%	40
			Phenanthrene	2022/12/03	NC		%	40
			Pyrene	2022/12/03	NC		%	40
8380172	KLI	Matrix Spike [UKH210-01]	o-Terphenyl	2022/12/02		94	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/02		100	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/12/02		98	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/12/02		99	%	60 - 130
8380172	KLI	Spiked Blank	o-Terphenyl	2022/12/02		92	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/02		96	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2022/12/02		96	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2022/12/02		96	%	80 - 120
8380172	KLI	Method Blank	o-Terphenyl	2022/12/02		93	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/02	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2022/12/02	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2022/12/02	<50		ug/g	
8380172	KLI	RPD [UKH210-01]	F2 (C10-C16 Hydrocarbons)	2022/12/02	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/12/02	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/12/02	NC		%	30

N/A = Not Applicable

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

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

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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

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

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

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

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

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist

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

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.

Bureau Veritas 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

Bureau Veritas
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel:(902) 420-0203 Toll-free:800-563-6266 Fax:(902) 420-8612 www.bvna.com

CHAI

Page 1 of 2

24-Nov-22 08:30
Ronklin Gracian
C2Y6791
AK0 ENV-1747

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#74250 SLR Consulting (Canada) Ltd	Company Name:	#32753 SLR Consulting (Canada) Ltd	Quotation #:	C21779
Attention:	Accounts Payable	Attention:	Pierre D'Angelo	P.O. #:	TOR1441
Address:	200 - 1620 West 8th Ave	Address:	501-55 University Ave.	Project:	209.013940.00001
	Vancouver BC V6J 1V4		Toronto ON M5J 2H7	Project Name:	3850 Cambrian Rd Ottawa, Ontario
Tel:	(604) 738-2500 Fax: (604) 738-2508	Tel:	(416) 320-1737 Fax:	Site #:	
Email:	accountspayableca@slrconsulting.com;adang@slrcons	Email:	pdangelo@slrconsulting.com	Sampled By:	RH

Order #: J7894
COC #: C#907894-01-01
Project Manager: Ronklin Gracian

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

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

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

Special Instructions:

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

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

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

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

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	CCME VOC F1-F4	O Reg 153 Metals ~~& Inorganics Pkg~~ + Cr6+ + Hg	CCME PAHs (Low Level) in Soil	Terrapure TCLP Minimum Package	Particle Size Distribution with Graph	pH	HWS Boron			HOLD	# of Bottles	Comments
1		BH22-04-SS2	22/11/23	8:15	Soil		✓	✓	✓			✓	✓				3	
2		BH22-04-SS3A		8:20			✓	✓	✓			✓					3	
3		BH22-04-SS4		8:30												H	3	
4		BH22-10-SS2		10:20			✓	✓	✓			✓	✓				3	
5		BH22-10-SS3A		10:25			✓	✓	✓			✓					3	
6		BH22-10-SS4		10:30												H	3	
7		DLP-001		—			✓		✓								2	
8		BH22-14-SS2		12:02			✓		✓								2	
9		BH22-14-SS3		12:11				✓				✓					1	
10		BH22-14-SS4	↓	12:28	↓		✓	✓	✓			✓					3	RECEIVED IN OTTAWA

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rebecca Hodge	22/11/23	18:00	Angelica Santiago ABP	2022/11/24	0830	
			Marylan (MEZ)	2022/11/25	08 30	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	3, 1, 1 ice pack	Present		
		Intact		

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

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. 7/7/7 orice

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

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

White: Bureau Veritas Yellow: Client

Bureau Veritas
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel:(902) 420-0203 Toll-free:800-563-6266 Fax:(902) 420-8612 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#74250 SLR Consulting (Canada) Ltd	Company Name:	#32753 SLR Consulting (Canada) Ltd	Quotation #:	C21779	Bureau Veritas Job #:	Bottle Order #: 907894
Attention:	Accounts Payable	Attention:	Pierre D'Angelo	P.O. #:	TOR1441		
Address:	200 - 1620 West 8th Ave Vancouver BC V6J 1V4	Address:	501-55 University Ave. Toronto ON M5J 2H7	Project:	204.013540.00001	COC #: C#907894-02-01	Project Manager: Ronklin Gracian
Tel:	(604) 738-2500 Fax: (604) 738-2508	Tel:	(416) 320-1737 Fax:	Project Name:	3650 Cambrian Rd Ottawa, Ontario		
Email:	accountspayableca@slrconsulting.com;adang@slrcons	Email:	pdangelo@slrconsulting.com	Site #:			
				Sampled By:	RH		

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

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

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

Special Instructions

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

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

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

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

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	CCME VOC F1-F4	O.Reg 153 Metals & Inorganics Plus CrVI + Hg	CCME PAHs (Low Level) in Soil	Toxicity: TCLP Minimum Package	Particle Size Distribution with Graph	pH	Hot Water Boron			HOLD	# of Bottles	Comments
1		BH22-14-SS5	22/11/23	12:45	Soil		✓	✓	✓			✓				H	3	
2		DUP-002	↓	-	↓			✓				✓				H	1	
3		BH22-13-SS1		14:25			✓	✓	✓			✓	✓			H	3	
4		BH22-13-SS3		14:40			✓	✓	✓			✓				H	3	
5		BH22-13-SS4		14:46												H	3	
6																		
7																		
8																		
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rebecca Harder	22/11/23		Angelica Santiago ABA See PG1	2022/11/24	0830.	

RECEIVED IN OTTAWA

Laboratory Use Only

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

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

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

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

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

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Pierre D'Angelo <pdangelo@slrconsulting.com>

RE: RE: Sample Observations. 209.013940. [JOB#:C2Y6791]

To Deepthi Shaji

Cc Ronklin Gracian

Hello Deepthi,

Ronklin already clarified the comment on groundwater and said there actually wasn't any water only condensation. As there appears to now be some confusion, any water that is present can be decanted.

Please run additional analysis on BH22-09-SS5 as noted below:

SLR SAMPLE ID	COC#	PARAMETRS FOR ANALYSIS
BH22-04-SS4	C#907894-01-01	VOCs, PHCs F1-F4, PAHs, Reg.153 Metals + CrVI + Hg, pH, grain size (particle size +\- 75 um (coarse/fine))
BH22-09-SS5	C#907894-04-01	VOCs, PHCs F1-F4, PAHs, Reg.153 Metals + CrVI + Hg, pH

SLR

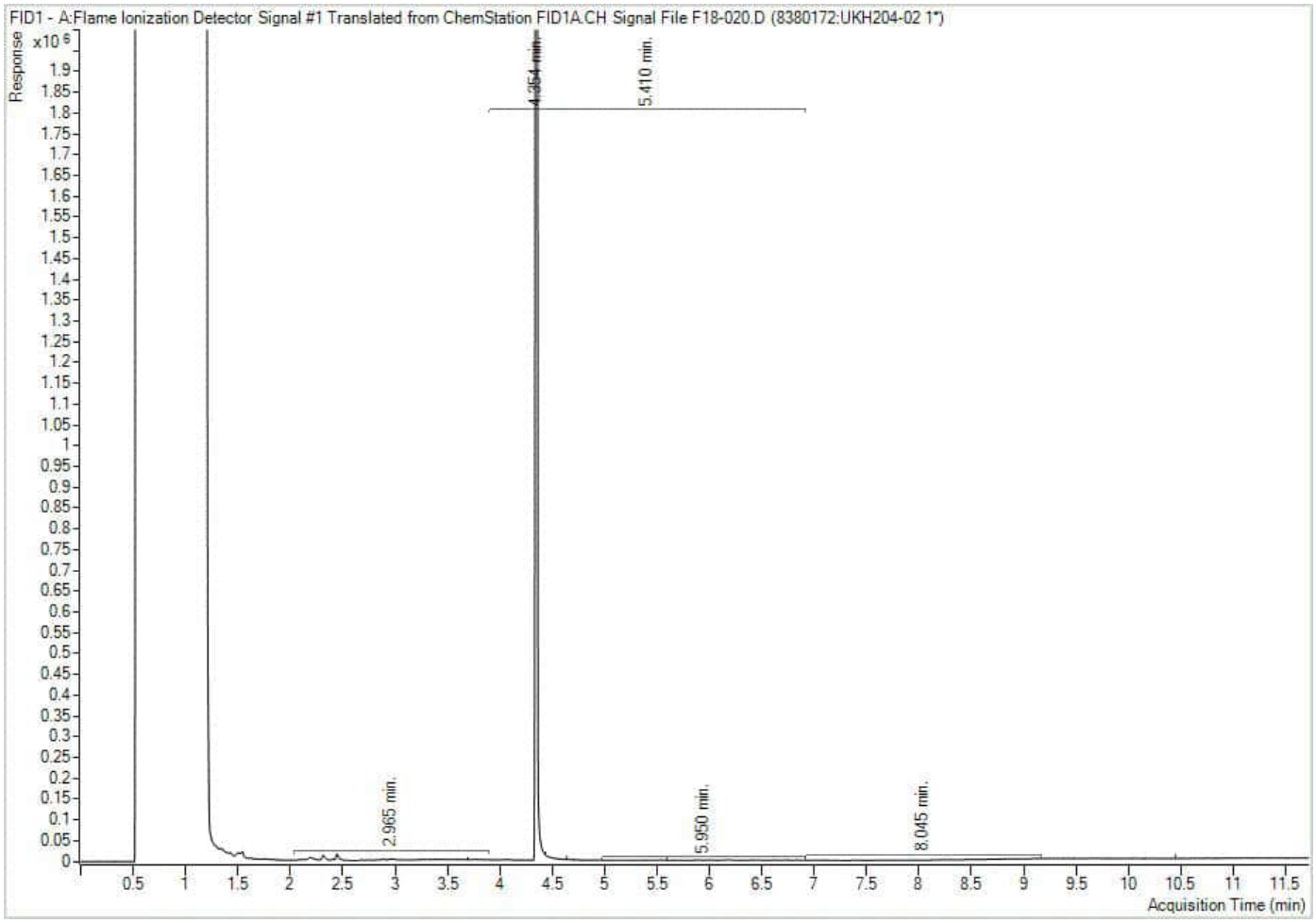
Pierre D'Angelo, P.Eng

Pierre D'Angelo

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH204

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-04-SS2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

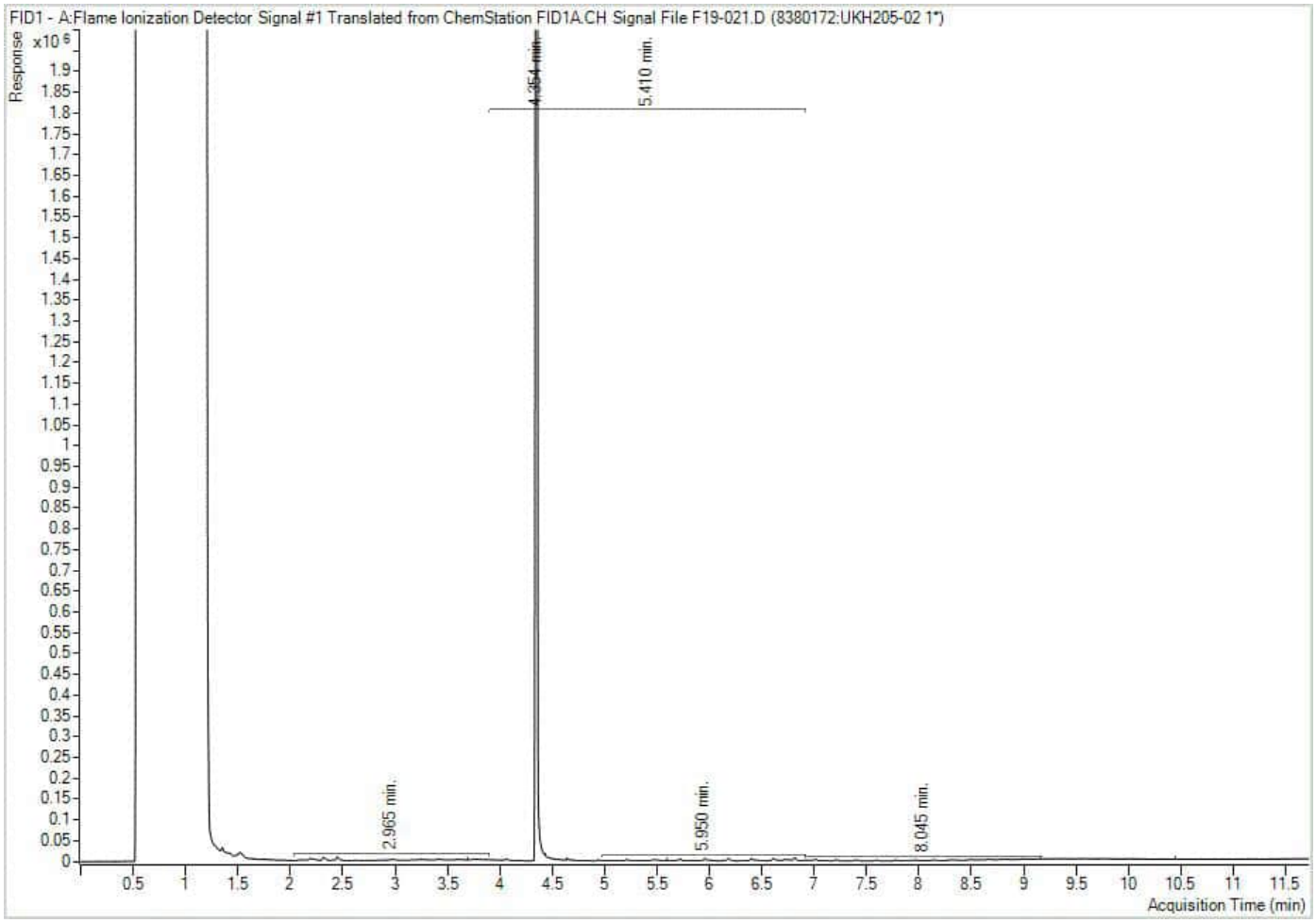


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH205

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-04-SS3A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

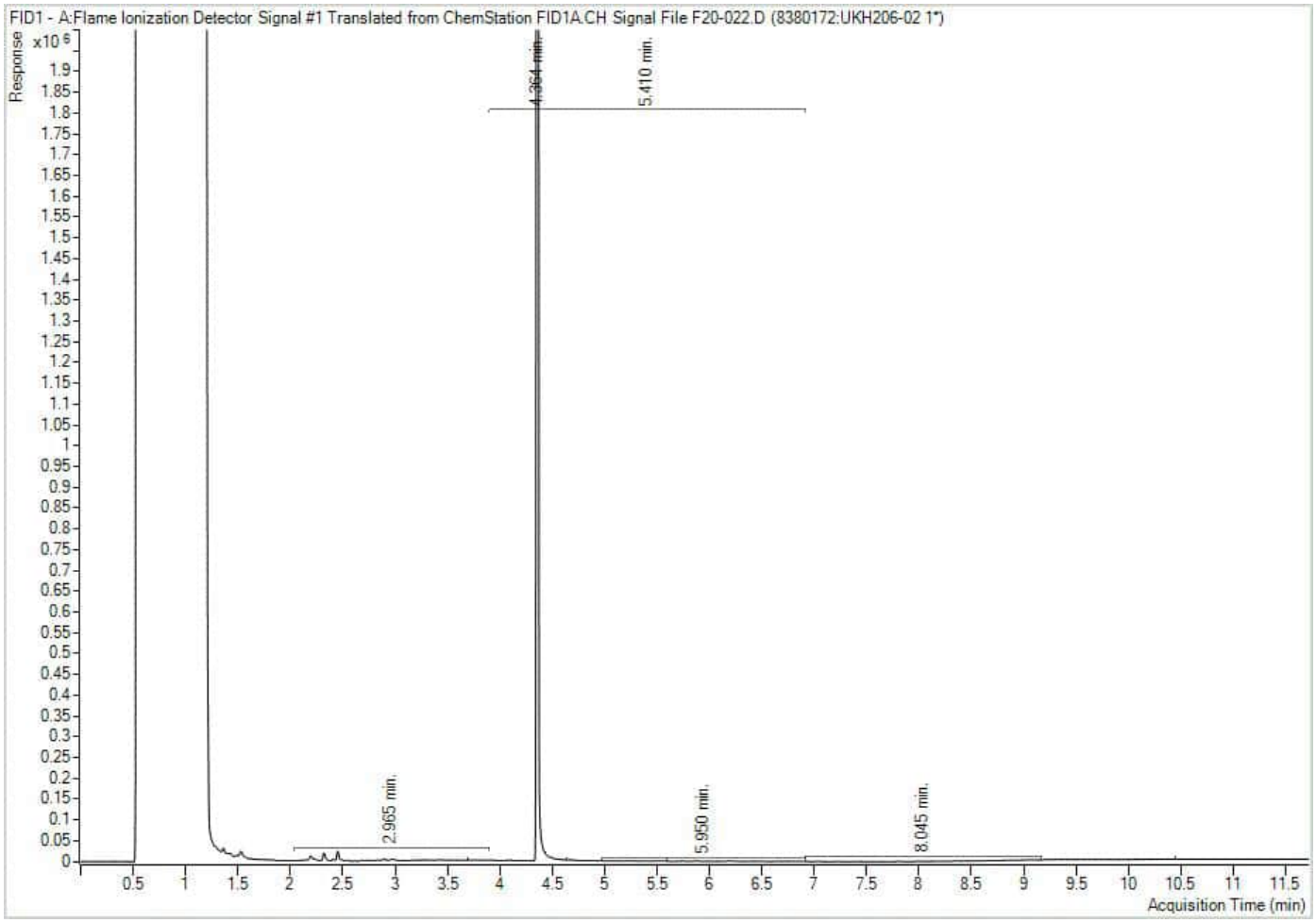


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH206

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-04-SS4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

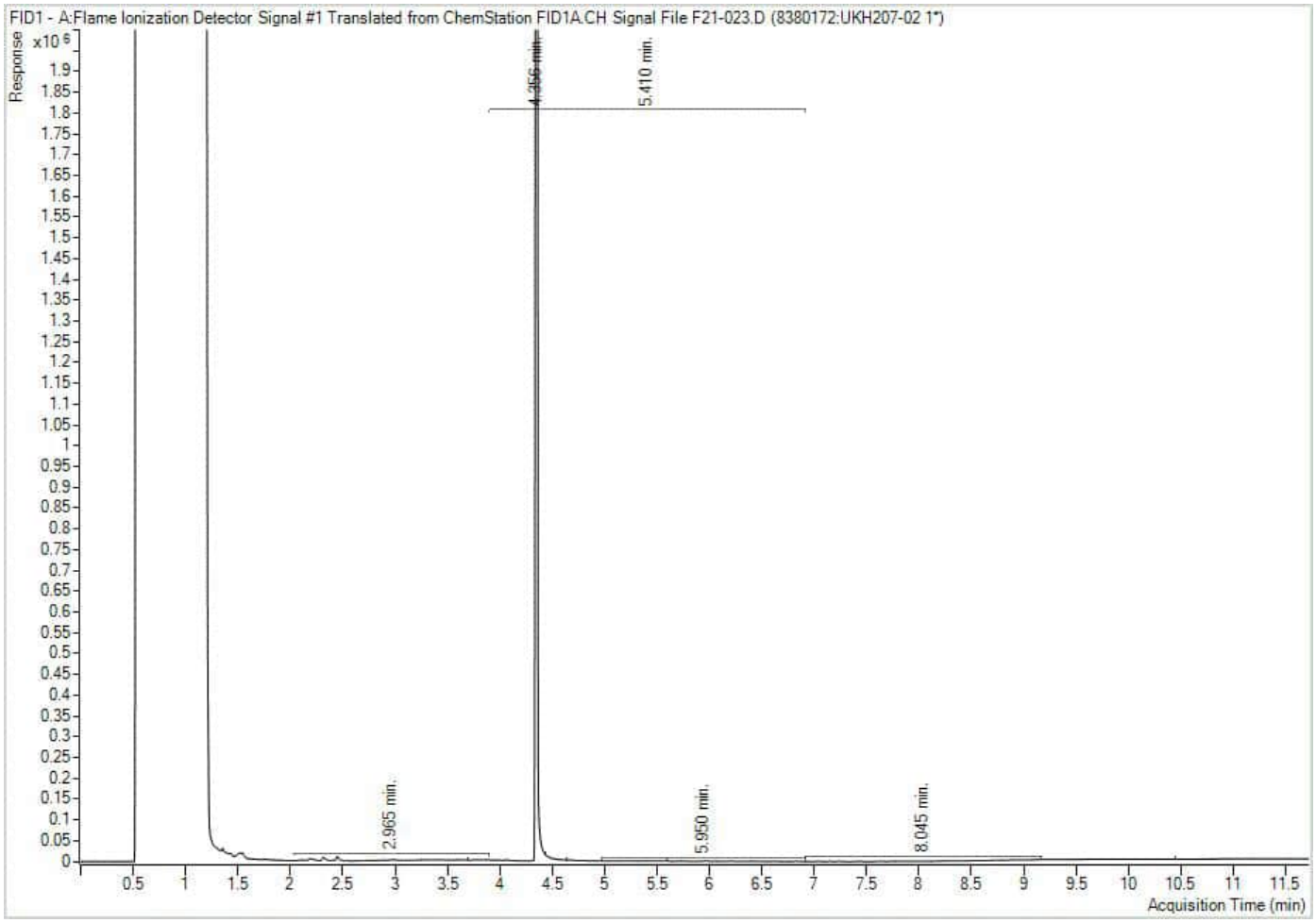


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH207

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-10-SS2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

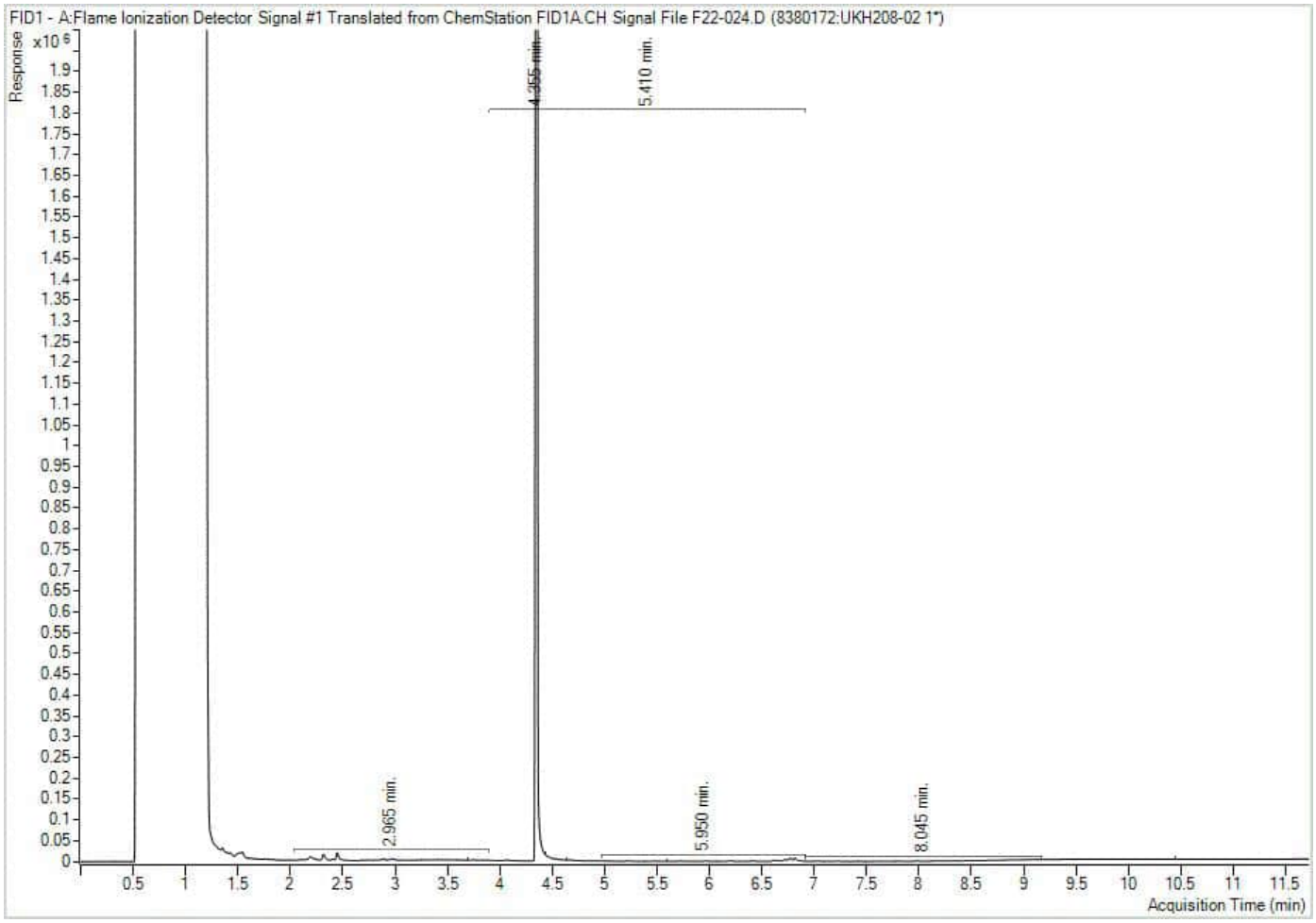


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH208

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-10-SS3A

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

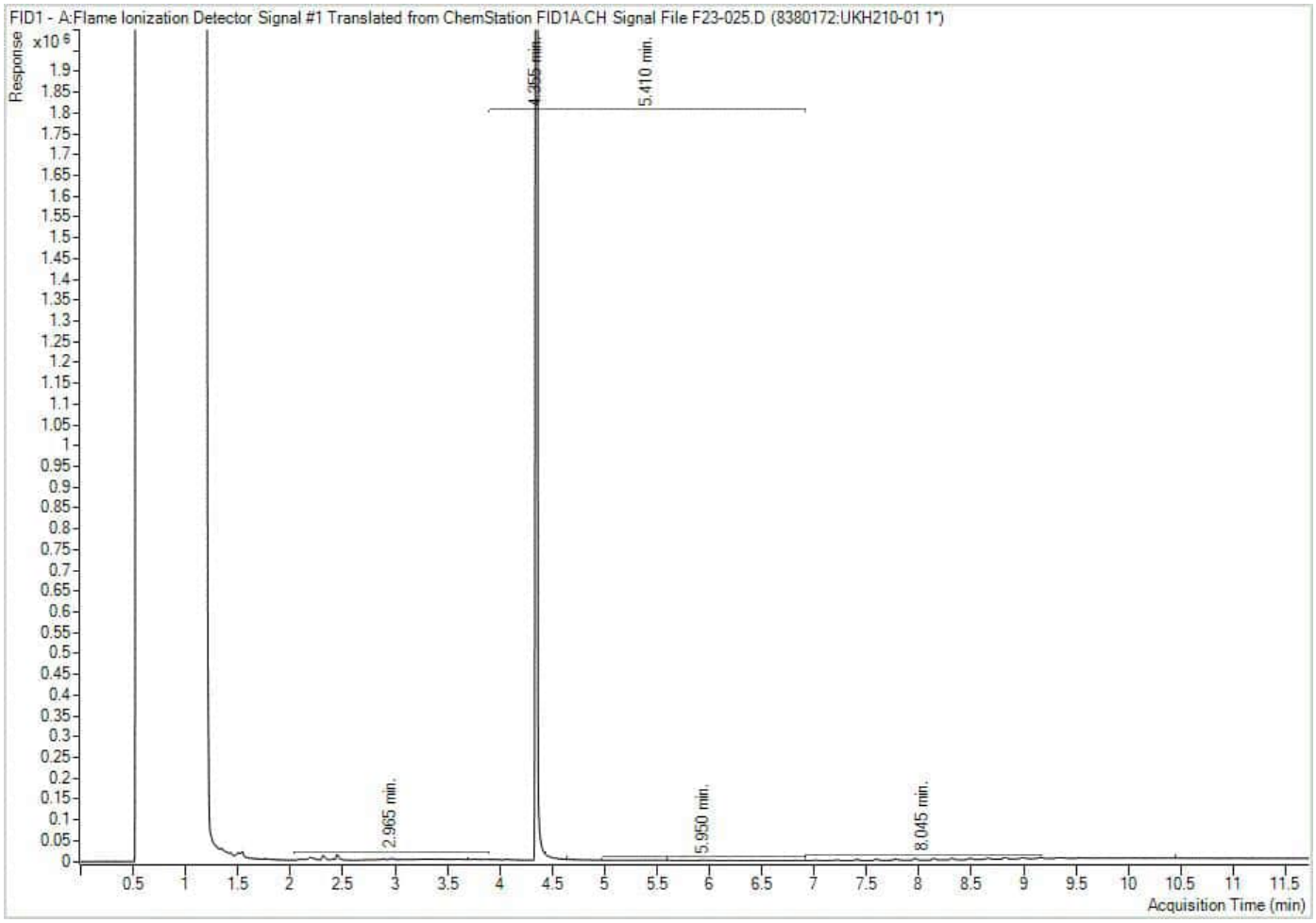


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH210

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: DUP-001

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

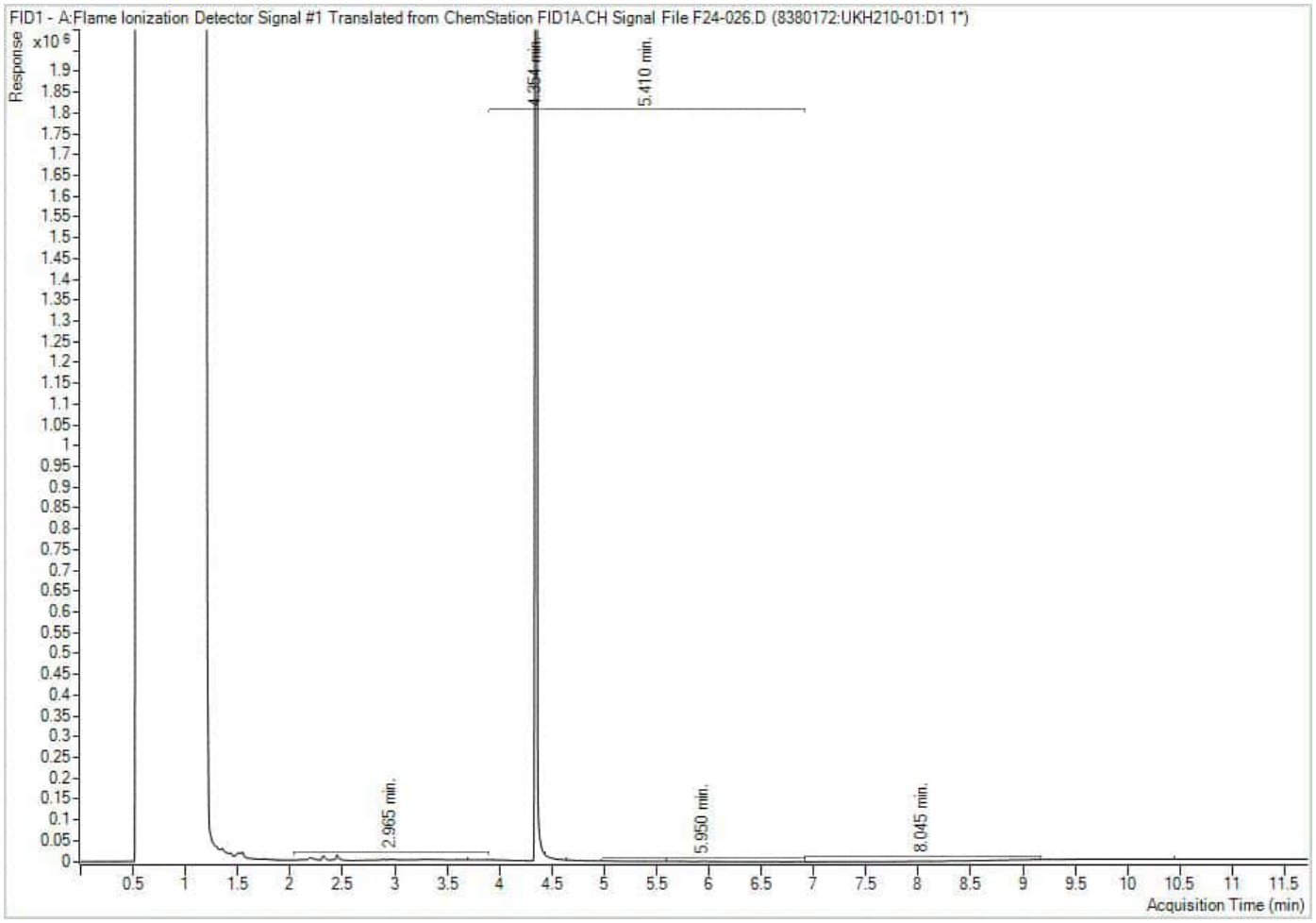


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH210 Lab-Dup

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: DUP-001

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

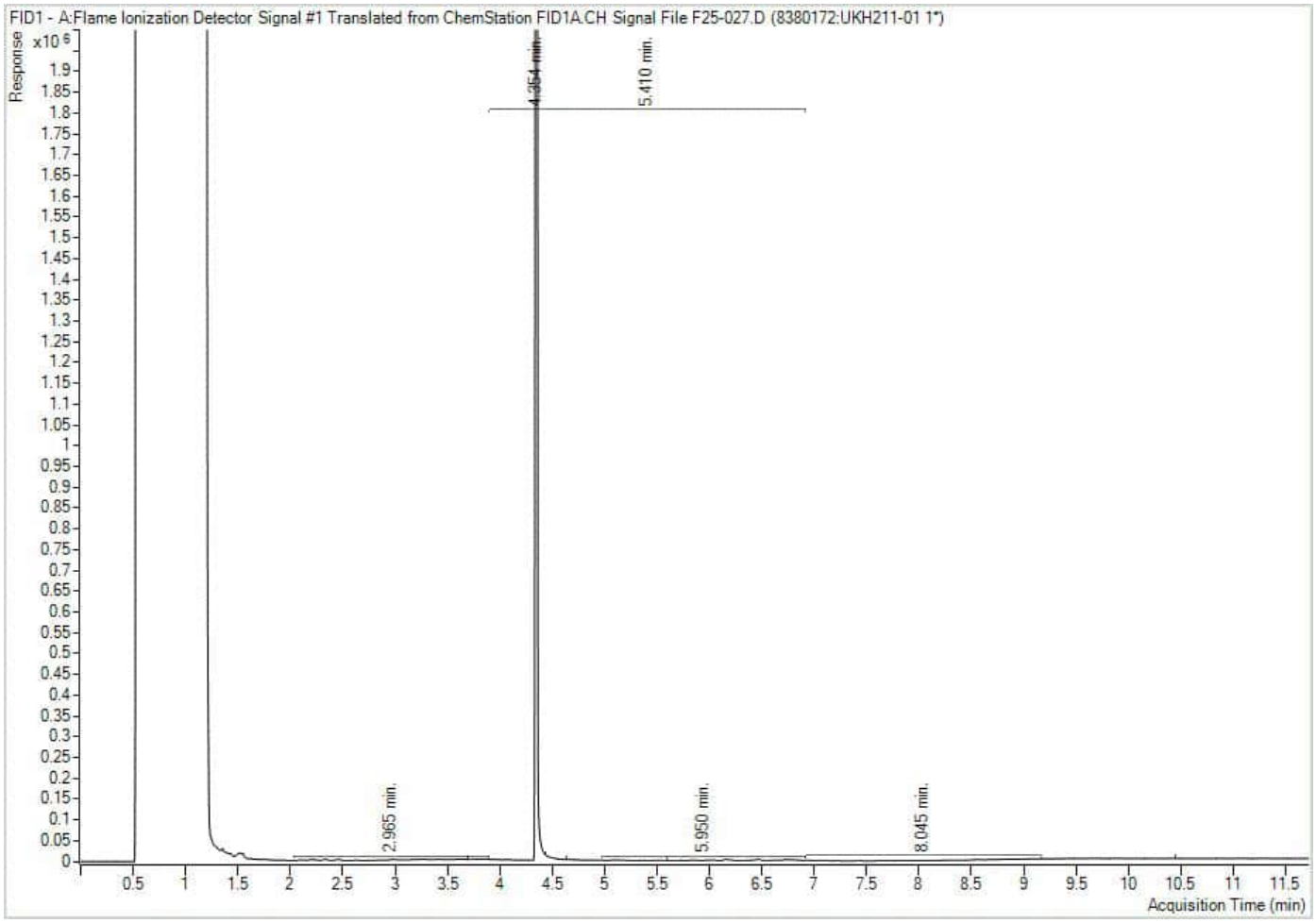


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH211

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-14-SS2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

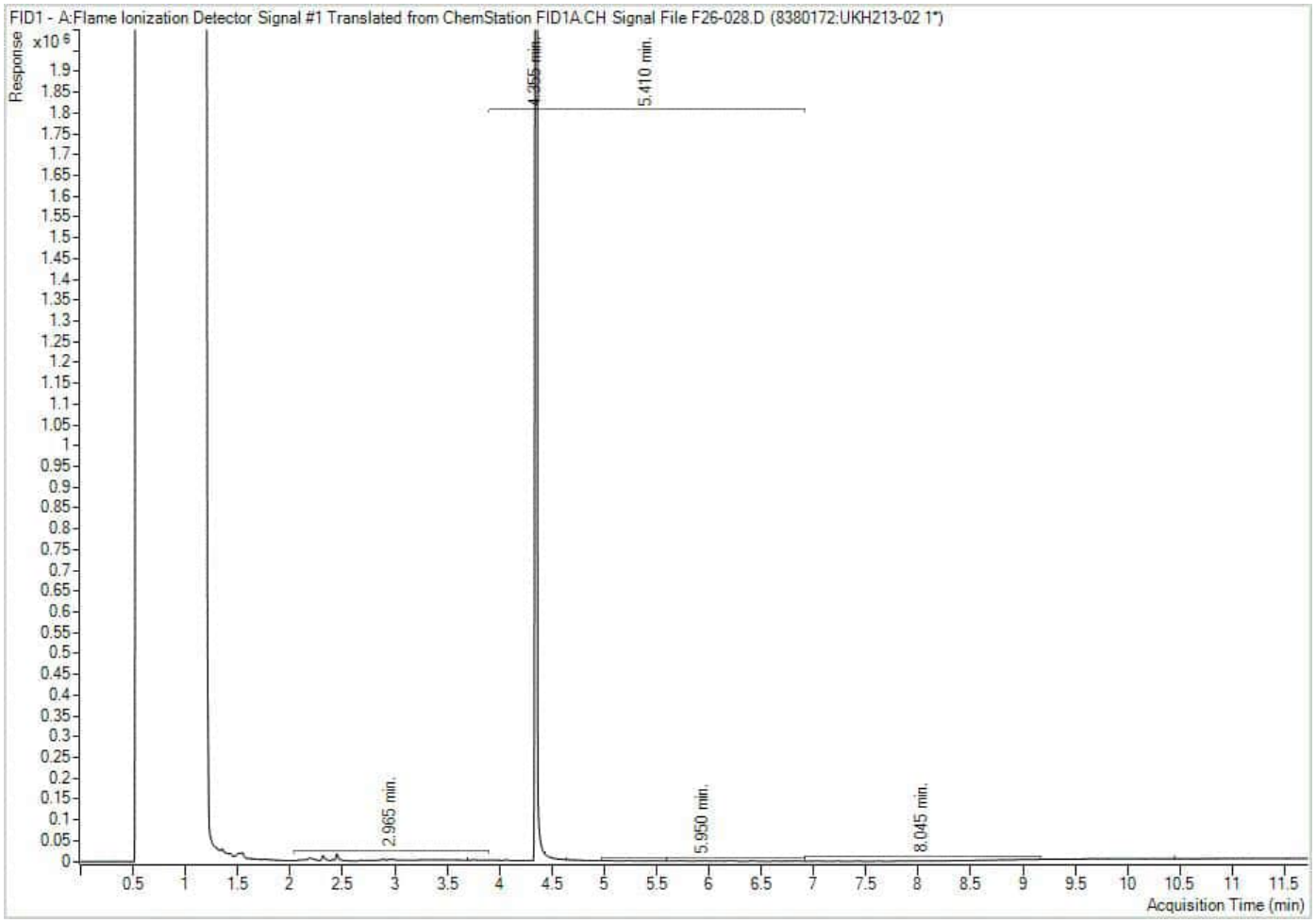


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH213

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-14-SS4

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

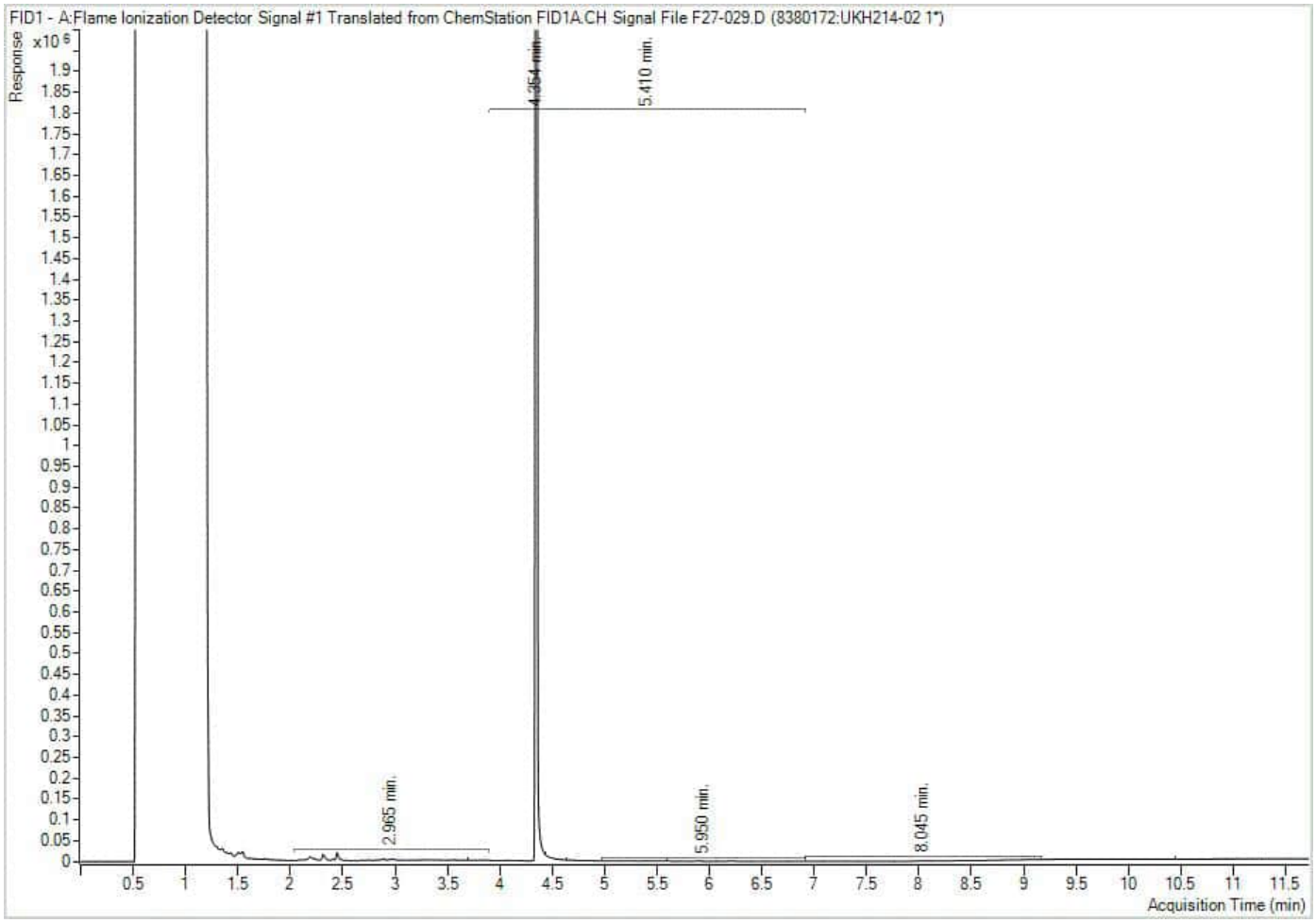


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH214

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-14-SS5

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

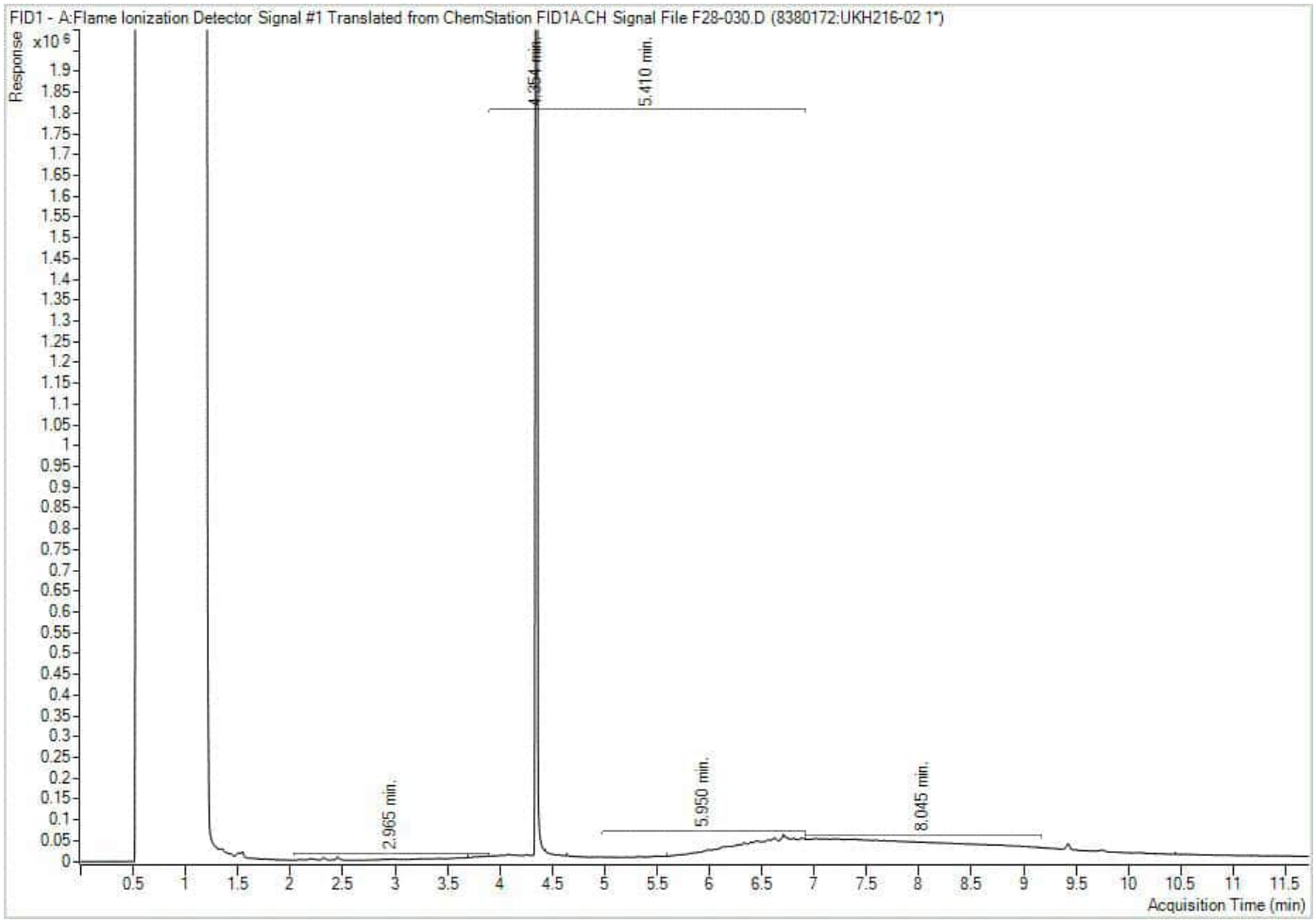


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH216

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-13-SS1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

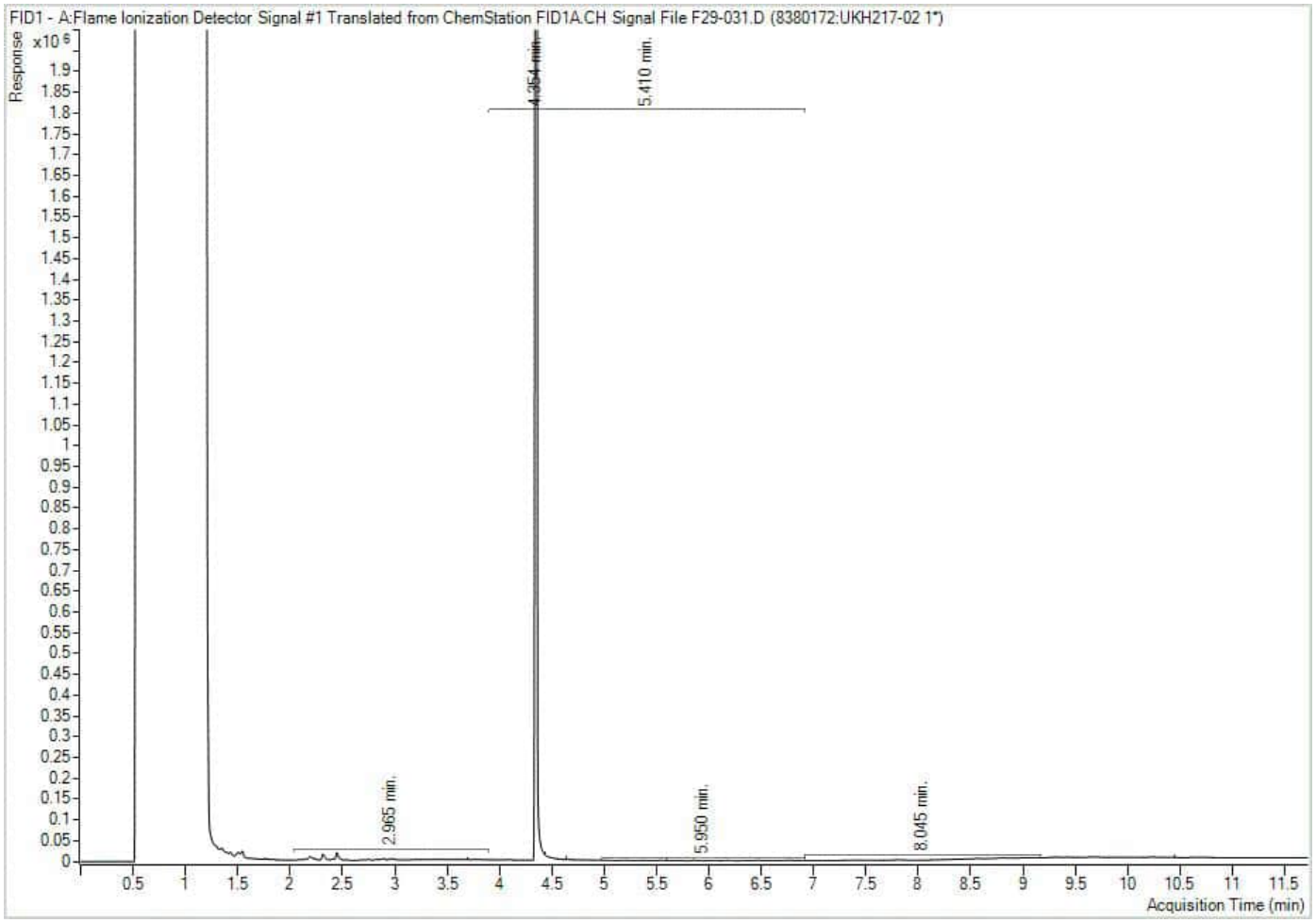


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y6791
Report Date: 2022/12/07
Bureau Veritas Sample: UKH217

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-13-SS3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Your P.O. #: TOR1441
Your Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your C.O.C. #: 907894-03-01, 907894-04-01

Attention: Pierre D'Angelo

SLR Consulting (Canada) Ltd
501-55 University Ave.
Toronto, ON
Canada M5J 2H7

Report Date: 2022/12/09
Report #: R7423210
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2Y7796
Received: 2022/11/25, 08:30

Sample Matrix: Soil
Samples Received: 17

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
B[a]P Total Potency Equivalent (1)	14	N/A	2022/12/05		CCME
Hot Water Extractable Boron (1)	2	2022/11/30	2022/11/30	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron (1)	5	2022/11/30	2022/12/01	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron (1)	1	2022/12/01	2022/12/01	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum (1)	11	N/A	2022/11/30		EPA 8260C m
1,3-Dichloropropene Sum (1)	2	N/A	2022/12/01		EPA 8260C m
1,3-Dichloropropene Sum (1)	1	N/A	2022/12/06		EPA 8260C m
Hexavalent Chromium in Soil by IC (1, 2)	14	2022/12/01	2022/12/03	CAM SOP-00436	EPA 3060/7199 m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	13	2022/12/03	2022/12/05	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	1	2022/12/04	2022/12/05	CAM SOP-00316	CCME CWS m
CCME Index of Additive Cancer Risk (1)	13	2022/11/26	2022/12/05		CCME PHC-CWS
CCME Index of Additive Cancer Risk (1)	1	2022/11/29	2022/12/05		CCME PHC-CWS
Acid Extractable Metals by ICPMS (1)	5	2022/11/30	2022/11/30	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS (1)	9	2022/12/01	2022/12/01	CAM SOP-00447	EPA 6020B m
Moisture (1)	12	N/A	2022/11/29	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture (1)	4	N/A	2022/11/30	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	14	2022/12/02	2022/12/03	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT (1)	14	2022/12/01	2022/12/01	CAM SOP-00413	EPA 9045 D m
Sieve, 75um (1)	2	N/A	2022/11/30	CAM SOP-00467	ASTM D1140 -17 m
Volatile Organic Compounds and F1 PHCs (1)	5	N/A	2022/11/29	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs (1)	8	N/A	2022/11/30	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds and F1 PHCs (1)	1	N/A	2022/12/06	CAM SOP-00230	EPA 8260C m

Remarks:

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

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

Your P.O. #: TOR1441
Your Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your C.O.C. #: 907894-03-01, 907894-04-01

Attention: Pierre D'Angelo

SLR Consulting (Canada) Ltd
501-55 University Ave.
Toronto, ON
Canada M5J 2H7

Report Date: 2022/12/09
Report #: R7423210
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2Y7796
Received: 2022/11/25, 08:30

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) Soils are reported on a dry weight basis unless otherwise specified.
(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Ronklin Gracian
Project Manager
09 Dec 2022 13:14:50

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

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		UKM446		UKM447		UKM447		UKM449			
Sampling Date		2022/11/24 07:35		2022/11/24 07:40		2022/11/24 07:40		2022/11/24 09:40			
COC Number		907894-03-01		907894-03-01		907894-03-01		907894-03-01			
	UNITS	BH22-06-SS2	QC Batch	BH22-06-SS3	QC Batch	BH22-06-SS3 Lab-Dup	QC Batch	BH22-01-SS2	RDL	MDL	QC Batch
Inorganics											
Moisture	%	19	8374298	20	8374030	19	8374030	21	1.0	0.50	8374298
Available (CaCl2) pH	pH	7.53	8378104	7.75	8378104			7.38			8378104

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

Bureau Veritas ID		UKM450		UKM450		UKM452		UKM452			
Sampling Date		2022/11/24 09:56		2022/11/24 09:56		2022/11/24		2022/11/24			
COC Number		907894-03-01		907894-03-01		907894-03-01		907894-03-01			
	UNITS	BH22-01-SS3	QC Batch	BH22-01-SS3 Lab-Dup	QC Batch	DUP-003	QC Batch	DUP-003 Lab-Dup	RDL	MDL	QC Batch
Inorganics											
Moisture	%	20	8374298	20	8374298	21	8373970	23	1.0	0.50	8373970
Available (CaCl2) pH	pH	7.53	8378104			7.62	8378104				

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

Bureau Veritas ID		UKM453	UKM454				UKM455			
Sampling Date		2022/11/24 11:32	2022/11/24 11:40				2022/11/24 11:56			
COC Number		907894-03-01	907894-03-01				907894-03-01			
	UNITS	BH22-12-SS1	BH22-12-SS2	RDL	MDL	QC Batch	BH22-12-SS4	RDL	MDL	QC Batch
Inorganics										
Moisture	%	16	19	1.0	0.50	8374298	25	1.0	0.50	8375440
Available (CaCl2) pH	pH	7.41	7.62			8378104	7.85			8377820
Miscellaneous Parameters										
Grain Size	%						FINE	N/A	N/A	8376007
Sieve - #200 (<0.075mm)	%						92	1	N/A	8376007
Sieve - #200 (>0.075mm)	%						9	1	N/A	8376007

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		UKM455		UKM495	UKM495		UKM496			
Sampling Date		2022/11/24 11:56		2022/11/24 11:48	2022/11/24 11:48		2022/11/24 13:16			
COC Number		907894-03-01		907894-04-01	907894-04-01		907894-04-01			
	UNITS	BH22-12-SS4 Lab-Dup	QC Batch	BH22-12-SS3	BH22-12-SS3 Lab-Dup	QC Batch	BH22-05-SS1	RDL	MDL	QC Batch
Inorganics										
Moisture	%	25	8375440	20	20	8373092	18	1.0	0.50	8376353
Available (CaCl2) pH	pH						7.73			8377820

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

Bureau Veritas ID		UKM496		UKM497		UKM498		UKM499			
Sampling Date		2022/11/24 13:16		2022/11/24 13:22		2022/11/24 13:35		2022/11/24 15:30			
COC Number		907894-04-01		907894-04-01		907894-04-01		907894-04-01			
	UNITS	BH22-05-SS1 Lab-Dup	QC Batch	BH22-05-SS2	QC Batch	BH22-05-SS3	QC Batch	BH22-09-SS1	RDL	MDL	QC Batch
Inorganics											
Moisture	%	19	8376353	19	8374298	24	8375440	21	1.0	0.50	8374298
Available (CaCl2) pH	pH					7.69	8377820	7.64			8378104

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

Bureau Veritas ID		UKM500	UKM501				UKM502			
Sampling Date		2022/11/24	2022/11/24 14:58				2022/11/24 15:04			
COC Number		907894-04-01	907894-04-01				907894-04-01			
	UNITS	DUP-004	BH22-09-SS3	RDL	MDL	QC Batch	BH22-09-SS4	RDL	MDL	QC Batch
Inorganics										
Moisture	%	15	21	1.0	0.50	8374298				
Available (CaCl2) pH	pH	7.60	7.73			8378104				
Miscellaneous Parameters										
Grain Size	%						FINE	N/A	N/A	8376007
Sieve - #200 (<0.075mm)	%						80	1	N/A	8376007
Sieve - #200 (>0.075mm)	%						20	1	N/A	8376007

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		UKM503			
Sampling Date		2022/11/24 15:10			
COC Number		907894-04-01			
	UNITS	**BH22-09-SS5**	**RDL**	**MDL**	**QC Batch**
Inorganics					
Moisture	%	31	1.0	0.50	8376813
Available (CaCl2) pH	pH	7.88			8377816

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKM446				UKM446			
Sampling Date		2022/11/24 07:35				2022/11/24 07:35			
COC Number		907894-03-01				907894-03-01			
	UNITS	BH22-06-SS2	RDL	MDL	QC Batch	BH22-06-SS2 Lab-Dup	RDL	MDL	QC Batch
Inorganics									
Chromium (VI)	ug/g	<0.18	0.18	0.050	8377761				
Metals									
Hot Water Ext. Boron (B)	ug/g	0.31	0.050	0.030	8376724	0.30	0.050	0.030	8376724
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8377540	<0.20	0.20	0.10	8377540
Acid Extractable Arsenic (As)	ug/g	1.1	1.0	0.10	8377540	1.2	1.0	0.10	8377540
Acid Extractable Barium (Ba)	ug/g	140	0.50	0.30	8377540	140	0.50	0.30	8377540
Acid Extractable Beryllium (Be)	ug/g	0.39	0.20	0.020	8377540	0.43	0.20	0.020	8377540
Acid Extractable Boron (B)	ug/g	5.2	5.0	1.0	8377540	5.7	5.0	1.0	8377540
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8377540	<0.10	0.10	0.030	8377540
Acid Extractable Chromium (Cr)	ug/g	32	1.0	0.20	8377540	33	1.0	0.20	8377540
Acid Extractable Cobalt (Co)	ug/g	8.0	0.10	0.020	8377540	8.1	0.10	0.020	8377540
Acid Extractable Copper (Cu)	ug/g	15	0.50	0.20	8377540	15	0.50	0.20	8377540
Acid Extractable Lead (Pb)	ug/g	3.7	1.0	0.10	8377540	3.9	1.0	0.10	8377540
Acid Extractable Molybdenum (Mo)	ug/g	0.63	0.50	0.10	8377540	0.69	0.50	0.10	8377540
Acid Extractable Nickel (Ni)	ug/g	18	0.50	0.20	8377540	18	0.50	0.20	8377540
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8377540	<0.50	0.50	0.10	8377540
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8377540	<0.20	0.20	0.040	8377540
Acid Extractable Thallium (Tl)	ug/g	0.12	0.050	0.010	8377540	0.14	0.050	0.010	8377540
Acid Extractable Uranium (U)	ug/g	0.91	0.050	0.030	8377540	0.91	0.050	0.030	8377540
Acid Extractable Vanadium (V)	ug/g	43	5.0	0.50	8377540	45	5.0	0.50	8377540
Acid Extractable Zinc (Zn)	ug/g	39	5.0	0.50	8377540	38	5.0	0.50	8377540
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	8377540	<0.050	0.050	0.030	8377540

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

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKM447				UKM449			
Sampling Date		2022/11/24 07:40				2022/11/24 09:40			
COC Number		907894-03-01				907894-03-01			
	UNITS	BH22-06-SS3	RDL	MDL	QC Batch	BH22-01-SS2	RDL	MDL	QC Batch
Inorganics									
Chromium (VI)	ug/g	<0.18	0.18	0.050	8377761	<0.18	0.18	0.050	8377761
Metals									
Hot Water Ext. Boron (B)	ug/g					0.39	0.050	0.030	8376259
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8375876	<0.20	0.20	0.10	8377540
Acid Extractable Arsenic (As)	ug/g	2.2	1.0	0.10	8375876	1.5	1.0	0.10	8377540
Acid Extractable Barium (Ba)	ug/g	82	0.50	0.30	8375876	72	0.50	0.30	8377540
Acid Extractable Beryllium (Be)	ug/g	0.29	0.20	0.020	8375876	0.27	0.20	0.020	8377540
Acid Extractable Boron (B)	ug/g	5.0	5.0	1.0	8375876	5.4	5.0	1.0	8377540
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8375876	<0.10	0.10	0.030	8377540
Acid Extractable Chromium (Cr)	ug/g	19	1.0	0.20	8375876	19	1.0	0.20	8377540
Acid Extractable Cobalt (Co)	ug/g	6.2	0.10	0.020	8375876	5.3	0.10	0.020	8377540
Acid Extractable Copper (Cu)	ug/g	14	0.50	0.20	8375876	10	0.50	0.20	8377540
Acid Extractable Lead (Pb)	ug/g	3.4	1.0	0.10	8375876	3.0	1.0	0.10	8377540
Acid Extractable Molybdenum (Mo)	ug/g	0.90	0.50	0.10	8375876	<0.50	0.50	0.10	8377540
Acid Extractable Nickel (Ni)	ug/g	12	0.50	0.20	8375876	11	0.50	0.20	8377540
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8375876	<0.50	0.50	0.10	8377540
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8375876	<0.20	0.20	0.040	8377540
Acid Extractable Thallium (Tl)	ug/g	0.094	0.050	0.010	8375876	0.077	0.050	0.010	8377540
Acid Extractable Uranium (U)	ug/g	0.65	0.050	0.030	8375876	0.54	0.050	0.030	8377540
Acid Extractable Vanadium (V)	ug/g	34	5.0	0.50	8375876	30	5.0	0.50	8377540
Acid Extractable Zinc (Zn)	ug/g	30	5.0	0.50	8375876	26	5.0	0.50	8377540
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	8375876	<0.050	0.050	0.030	8377540

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKM450				UKM452	UKM453			
Sampling Date		2022/11/24 09:56				2022/11/24	2022/11/24 11:32			
COC Number		907894-03-01				907894-03-01	907894-03-01			
	UNITS	BH22-01-SS3	RDL	MDL	QC Batch	DUP-003	BH22-12-SS1	RDL	MDL	QC Batch
Inorganics										
Chromium (VI)	ug/g	<0.18	0.18	0.050	8377761	<0.18	<0.18	0.18	0.050	8377761
Metals										
Hot Water Ext. Boron (B)	ug/g					0.47	0.92	0.050	0.030	8376724
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8375876	<0.20	<0.20	0.20	0.10	8377540
Acid Extractable Arsenic (As)	ug/g	2.7	1.0	0.10	8375876	1.2	1.5	1.0	0.10	8377540
Acid Extractable Barium (Ba)	ug/g	120	0.50	0.30	8375876	110	150	0.50	0.30	8377540
Acid Extractable Beryllium (Be)	ug/g	0.37	0.20	0.020	8375876	0.36	0.36	0.20	0.020	8377540
Acid Extractable Boron (B)	ug/g	6.0	5.0	1.0	8375876	6.4	6.6	5.0	1.0	8377540
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8375876	<0.10	0.21	0.10	0.030	8377540
Acid Extractable Chromium (Cr)	ug/g	20	1.0	0.20	8375876	25	28	1.0	0.20	8377540
Acid Extractable Cobalt (Co)	ug/g	6.8	0.10	0.020	8375876	6.9	6.5	0.10	0.020	8377540
Acid Extractable Copper (Cu)	ug/g	13	0.50	0.20	8375876	14	16	0.50	0.20	8377540
Acid Extractable Lead (Pb)	ug/g	3.5	1.0	0.10	8375876	4.0	5.9	1.0	0.10	8377540
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	0.10	8375876	0.53	0.54	0.50	0.10	8377540
Acid Extractable Nickel (Ni)	ug/g	12	0.50	0.20	8375876	15	16	0.50	0.20	8377540
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8375876	<0.50	<0.50	0.50	0.10	8377540
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8375876	<0.20	<0.20	0.20	0.040	8377540
Acid Extractable Thallium (Tl)	ug/g	0.11	0.050	0.010	8375876	0.12	0.12	0.050	0.010	8377540
Acid Extractable Uranium (U)	ug/g	0.63	0.050	0.030	8375876	0.56	0.94	0.050	0.030	8377540
Acid Extractable Vanadium (V)	ug/g	34	5.0	0.50	8375876	39	37	5.0	0.50	8377540
Acid Extractable Zinc (Zn)	ug/g	32	5.0	0.50	8375876	40	38	5.0	0.50	8377540
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	8375876	<0.050	<0.050	0.050	0.030	8377540

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKM454				UKM455			
Sampling Date		2022/11/24 11:40				2022/11/24 11:56			
COC Number		907894-03-01				907894-03-01			
	UNITS	**BH22-12-SS2**	**RDL**	**MDL**	**QC Batch**	**BH22-12-SS4**	**RDL**	**MDL**	**QC Batch**
Inorganics									
Chromium (VI)	ug/g	<0.18	0.18	0.050	8377761	<0.18	0.18	0.050	8377756
Metals									
Hot Water Ext. Boron (B)	ug/g	0.17	0.050	0.030	8376724				
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8377540	<0.20	0.20	0.10	8375876
Acid Extractable Arsenic (As)	ug/g	1.3	1.0	0.10	8377540	2.1	1.0	0.10	8375876
Acid Extractable Barium (Ba)	ug/g	50	0.50	0.30	8377540	120	0.50	0.30	8375876
Acid Extractable Beryllium (Be)	ug/g	0.23	0.20	0.020	8377540	0.38	0.20	0.020	8375876
Acid Extractable Boron (B)	ug/g	<5.0	5.0	1.0	8377540	7.9	5.0	1.0	8375876
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8377540	<0.10	0.10	0.030	8375876
Acid Extractable Chromium (Cr)	ug/g	16	1.0	0.20	8377540	24	1.0	0.20	8375876
Acid Extractable Cobalt (Co)	ug/g	5.0	0.10	0.020	8377540	8.2	0.10	0.020	8375876
Acid Extractable Copper (Cu)	ug/g	8.9	0.50	0.20	8377540	16	0.50	0.20	8375876
Acid Extractable Lead (Pb)	ug/g	2.3	1.0	0.10	8377540	4.2	1.0	0.10	8375876
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	0.10	8377540	0.51	0.50	0.10	8375876
Acid Extractable Nickel (Ni)	ug/g	9.3	0.50	0.20	8377540	15	0.50	0.20	8375876
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8377540	<0.50	0.50	0.10	8375876
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8377540	<0.20	0.20	0.040	8375876
Acid Extractable Thallium (Tl)	ug/g	0.068	0.050	0.010	8377540	0.12	0.050	0.010	8375876
Acid Extractable Uranium (U)	ug/g	0.49	0.050	0.030	8377540	0.69	0.050	0.030	8375876
Acid Extractable Vanadium (V)	ug/g	26	5.0	0.50	8377540	37	5.0	0.50	8375876
Acid Extractable Zinc (Zn)	ug/g	19	5.0	0.50	8377540	38	5.0	0.50	8375876
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	8377540	<0.050	0.050	0.030	8375876

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKM496				UKM496			
Sampling Date		2022/11/24 13:16				2022/11/24 13:16			
COC Number		907894-04-01				907894-04-01			
	UNITS	BH22-05-SS1	RDL	MDL	QC Batch	BH22-05-SS1 Lab-Dup	RDL	MDL	QC Batch
Inorganics									
Chromium (VI)	ug/g	<0.18	0.18	0.050	8377756	<0.18	0.18	0.050	8377756
Metals									
Hot Water Ext. Boron (B)	ug/g	0.30	0.050	0.030	8377899				
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8377540				
Acid Extractable Arsenic (As)	ug/g	1.5	1.0	0.10	8377540				
Acid Extractable Barium (Ba)	ug/g	110	0.50	0.30	8377540				
Acid Extractable Beryllium (Be)	ug/g	0.36	0.20	0.020	8377540				
Acid Extractable Boron (B)	ug/g	5.3	5.0	1.0	8377540				
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8377540				
Acid Extractable Chromium (Cr)	ug/g	31	1.0	0.20	8377540				
Acid Extractable Cobalt (Co)	ug/g	8.4	0.10	0.020	8377540				
Acid Extractable Copper (Cu)	ug/g	17	0.50	0.20	8377540				
Acid Extractable Lead (Pb)	ug/g	4.2	1.0	0.10	8377540				
Acid Extractable Molybdenum (Mo)	ug/g	1.4	0.50	0.10	8377540				
Acid Extractable Nickel (Ni)	ug/g	18	0.50	0.20	8377540				
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8377540				
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8377540				
Acid Extractable Thallium (Tl)	ug/g	0.15	0.050	0.010	8377540				
Acid Extractable Uranium (U)	ug/g	0.66	0.050	0.030	8377540				
Acid Extractable Vanadium (V)	ug/g	42	5.0	0.50	8377540				
Acid Extractable Zinc (Zn)	ug/g	40	5.0	0.50	8377540				
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	8377540				

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

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKM498				UKM499		UKM500			
Sampling Date		2022/11/24 13:35				2022/11/24 15:30		2022/11/24			
COC Number		907894-04-01				907894-04-01		907894-04-01			
	UNITS	BH22-05-SS3	RDL	MDL	QC Batch	BH22-09-SS1	QC Batch	DUP-004	RDL	MDL	QC Batch
Inorganics											
Chromium (VI)	ug/g	<0.18	0.18	0.050	8377756	<0.18	8377761	<0.18	0.18	0.050	8377761
Metals											
Hot Water Ext. Boron (B)	ug/g					0.26	8376259	0.58	0.050	0.030	8376724
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8375876	<0.20	8377540	<0.20	0.20	0.10	8377540
Acid Extractable Arsenic (As)	ug/g	3.1	1.0	0.10	8375876	1.1	8377540	1.7	1.0	0.10	8377540
Acid Extractable Barium (Ba)	ug/g	84	0.50	0.30	8375876	88	8377540	140	0.50	0.30	8377540
Acid Extractable Beryllium (Be)	ug/g	0.30	0.20	0.020	8375876	0.30	8377540	0.34	0.20	0.020	8377540
Acid Extractable Boron (B)	ug/g	5.2	5.0	1.0	8375876	<5.0	8377540	7.4	5.0	1.0	8377540
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8375876	<0.10	8377540	0.14	0.10	0.030	8377540
Acid Extractable Chromium (Cr)	ug/g	17	1.0	0.20	8375876	22	8377540	24	1.0	0.20	8377540
Acid Extractable Cobalt (Co)	ug/g	5.0	0.10	0.020	8375876	5.5	8377540	6.9	0.10	0.020	8377540
Acid Extractable Copper (Cu)	ug/g	14	0.50	0.20	8375876	13	8377540	18	0.50	0.20	8377540
Acid Extractable Lead (Pb)	ug/g	3.1	1.0	0.10	8375876	3.5	8377540	5.9	1.0	0.10	8377540
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	0.10	8375876	0.54	8377540	0.70	0.50	0.10	8377540
Acid Extractable Nickel (Ni)	ug/g	11	0.50	0.20	8375876	12	8377540	15	0.50	0.20	8377540
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8375876	<0.50	8377540	<0.50	0.50	0.10	8377540
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8375876	<0.20	8377540	<0.20	0.20	0.040	8377540
Acid Extractable Thallium (Tl)	ug/g	0.078	0.050	0.010	8375876	0.099	8377540	0.12	0.050	0.010	8377540
Acid Extractable Uranium (U)	ug/g	0.62	0.050	0.030	8375876	0.61	8377540	1.1	0.050	0.030	8377540
Acid Extractable Vanadium (V)	ug/g	29	5.0	0.50	8375876	32	8377540	34	5.0	0.50	8377540
Acid Extractable Zinc (Zn)	ug/g	25	5.0	0.50	8375876	29	8377540	46	5.0	0.50	8377540
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	8375876	<0.050	8377540	<0.050	0.050	0.030	8377540

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKM501				UKM501			
Sampling Date		2022/11/24 14:58				2022/11/24 14:58			
COC Number		907894-04-01				907894-04-01			
	UNITS	**BH22-09-SS3**	**RDL**	**MDL**	**QC Batch**	**BH22-09-SS3 Lab-Dup**	**RDL**	**MDL**	**QC Batch**
Inorganics									
Chromium (VI)	ug/g	<0.18	0.18	0.050	8377761				
Metals									
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8375876	<0.20	0.20	0.10	8375876
Acid Extractable Arsenic (As)	ug/g	1.1	1.0	0.10	8375876	1.2	1.0	0.10	8375876
Acid Extractable Barium (Ba)	ug/g	58	0.50	0.30	8375876	57	0.50	0.30	8375876
Acid Extractable Beryllium (Be)	ug/g	0.27	0.20	0.020	8375876	0.24	0.20	0.020	8375876
Acid Extractable Boron (B)	ug/g	<5.0	5.0	1.0	8375876	<5.0	5.0	1.0	8375876
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8375876	<0.10	0.10	0.030	8375876
Acid Extractable Chromium (Cr)	ug/g	19	1.0	0.20	8375876	19	1.0	0.20	8375876
Acid Extractable Cobalt (Co)	ug/g	5.7	0.10	0.020	8375876	5.3	0.10	0.020	8375876
Acid Extractable Copper (Cu)	ug/g	11	0.50	0.20	8375876	10	0.50	0.20	8375876
Acid Extractable Lead (Pb)	ug/g	2.6	1.0	0.10	8375876	2.6	1.0	0.10	8375876
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	0.10	8375876	<0.50	0.50	0.10	8375876
Acid Extractable Nickel (Ni)	ug/g	11	0.50	0.20	8375876	11	0.50	0.20	8375876
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8375876	<0.50	0.50	0.10	8375876
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8375876	<0.20	0.20	0.040	8375876
Acid Extractable Thallium (Tl)	ug/g	0.070	0.050	0.010	8375876	0.068	0.050	0.010	8375876
Acid Extractable Uranium (U)	ug/g	0.64	0.050	0.030	8375876	0.61	0.050	0.030	8375876
Acid Extractable Vanadium (V)	ug/g	32	5.0	0.50	8375876	31	5.0	0.50	8375876
Acid Extractable Zinc (Zn)	ug/g	22	5.0	0.50	8375876	21	5.0	0.50	8375876
Acid Extractable Mercury (Hg)	ug/g	<0.050	0.050	0.030	8375876	<0.050	0.050	0.030	8375876

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

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKM503				UKM503			
Sampling Date		2022/11/24 15:10				2022/11/24 15:10			
COC Number		907894-04-01				907894-04-01			
	UNITS	BH22-09-SS5	RDL	MDL	QC Batch	BH22-09-SS5 Lab-Dup	RDL	MDL	QC Batch
Inorganics									
Chromium (VI)	ug/g	<0.18	0.18	0.050	8377756				
Metals									
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	0.10	8377512	<0.20	0.20	0.10	8377512
Acid Extractable Arsenic (As)	ug/g	2.3	1.0	0.10	8377512	2.5	1.0	0.10	8377512
Acid Extractable Barium (Ba)	ug/g	140	0.50	0.30	8377512	150	0.50	0.30	8377512
Acid Extractable Beryllium (Be)	ug/g	0.50	0.20	0.020	8377512	0.54	0.20	0.020	8377512
Acid Extractable Boron (B)	ug/g	11	5.0	1.0	8377512	12	5.0	1.0	8377512
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.030	8377512	<0.10	0.10	0.030	8377512
Acid Extractable Chromium (Cr)	ug/g	29	1.0	0.20	8377512	32	1.0	0.20	8377512
Acid Extractable Cobalt (Co)	ug/g	9.5	0.10	0.020	8377512	11	0.10	0.020	8377512
Acid Extractable Copper (Cu)	ug/g	19	0.50	0.20	8377512	20	0.50	0.20	8377512
Acid Extractable Lead (Pb)	ug/g	5.5	1.0	0.10	8377512	5.9	1.0	0.10	8377512
Acid Extractable Molybdenum (Mo)	ug/g	0.59	0.50	0.10	8377512	0.54	0.50	0.10	8377512
Acid Extractable Nickel (Ni)	ug/g	19	0.50	0.20	8377512	21	0.50	0.20	8377512
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	0.10	8377512	<0.50	0.50	0.10	8377512
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	0.040	8377512	<0.20	0.20	0.040	8377512
Acid Extractable Thallium (Tl)	ug/g	0.18	0.050	0.010	8377512	0.19	0.050	0.010	8377512
Acid Extractable Uranium (U)	ug/g	0.76	0.050	0.030	8377512	0.80	0.050	0.030	8377512
Acid Extractable Vanadium (V)	ug/g	44	5.0	0.50	8377512	49	5.0	0.50	8377512
Acid Extractable Zinc (Zn)	ug/g	51	5.0	0.50	8377512	56	5.0	0.50	8377512

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

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		UKM446	UKM447	UKM449			
Sampling Date		2022/11/24 07:35	2022/11/24 07:40	2022/11/24 09:40			
COC Number		907894-03-01	907894-03-01	907894-03-01			
	UNITS	BH22-06-SS2	BH22-06-SS3	BH22-01-SS2	RDL	MDL	QC Batch
Calculated Parameters							
Benzo(a)pyrene Total Potency Equiv.	ug/g	<0.01	<0.01	<0.01	0.01	N/A	8369548
Index of Additive Cancer Risk -IACR	N/A	<0.1	<0.1	<0.1	0.1	N/A	8369547
Polyaromatic Hydrocarbons							
Benzo(e)pyrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	N/A	8380239
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8380239
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8380239
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8380239
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0040	8380239
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8380239
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8380239
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0040	8380239
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0040	8380239
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Phenanthrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Pyrene	ug/g	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Biphenyl	ug/g	<0.0050	<0.0050	<0.0050	0.0050	N/A	8380239
Perylene	ug/g	<0.0050	0.014	0.019	0.0050	N/A	8380239
Surrogate Recovery (%)							
D10-Anthracene	%	100	100	99			8380239
D14-Terphenyl (FS)	%	116	112	111			8380239
D8-Acenaphthylene	%	90	84	82			8380239

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		UKM449				UKM450	UKM452			
Sampling Date		2022/11/24 09:40				2022/11/24 09:56	2022/11/24			
COC Number		907894-03-01				907894-03-01	907894-03-01			
	UNITS	BH22-01-SS2 Lab-Dup	RDL	MDL	QC Batch	BH22-01-SS3	DUP-003	RDL	MDL	QC Batch
Calculated Parameters										
Benzo(a)pyrene Total Potency Equiv.	ug/g					<0.01	<0.01	0.01	N/A	8369548
Index of Additive Cancer Risk -IACR	N/A					<0.1	<0.1	0.1	N/A	8369547
Polyaromatic Hydrocarbons										
Benzo(e)pyrene	ug/g	<0.0050	0.0050	N/A	8380239	<0.0050	<0.0050	0.0050	N/A	8380239
Acenaphthene	ug/g	<0.0050	0.0050	0.0020	8380239	<0.0050	<0.0050	0.0050	0.0020	8380239
Acenaphthylene	ug/g	<0.0050	0.0050	0.0010	8380239	<0.0050	<0.0050	0.0050	0.0010	8380239
Anthracene	ug/g	<0.0050	0.0050	0.0010	8380239	<0.0050	<0.0050	0.0050	0.0010	8380239
Benzo(a)anthracene	ug/g	<0.0050	0.0050	0.0020	8380239	<0.0050	<0.0050	0.0050	0.0020	8380239
Benzo(a)pyrene	ug/g	<0.0050	0.0050	0.0010	8380239	<0.0050	<0.0050	0.0050	0.0010	8380239
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0050	0.0020	8380239	<0.0050	<0.0050	0.0050	0.0020	8380239
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	0.0040	8380239	<0.0050	<0.0050	0.0050	0.0040	8380239
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	0.0020	8380239	<0.0050	<0.0050	0.0050	0.0020	8380239
Chrysene	ug/g	<0.0050	0.0050	0.0020	8380239	<0.0050	<0.0050	0.0050	0.0020	8380239
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	0.0040	8380239	<0.0050	<0.0050	0.0050	0.0040	8380239
Fluoranthene	ug/g	<0.0050	0.0050	0.0010	8380239	<0.0050	<0.0050	0.0050	0.0010	8380239
Fluorene	ug/g	<0.0050	0.0050	0.0010	8380239	<0.0050	<0.0050	0.0050	0.0010	8380239
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	0.0040	8380239	<0.0050	<0.0050	0.0050	0.0040	8380239
1-Methylnaphthalene	ug/g	<0.0050	0.0050	0.0010	8380239	<0.0050	<0.0050	0.0050	0.0010	8380239
2-Methylnaphthalene	ug/g	<0.0050	0.0050	0.0010	8380239	<0.0050	<0.0050	0.0050	0.0010	8380239
Naphthalene	ug/g	<0.0050	0.0050	0.0010	8380239	<0.0050	<0.0050	0.0050	0.0010	8380239
Phenanthrene	ug/g	<0.0050	0.0050	0.0010	8380239	<0.0050	<0.0050	0.0050	0.0010	8380239
Pyrene	ug/g	<0.0050	0.0050	0.0010	8380239	<0.0050	<0.0050	0.0050	0.0010	8380239
Biphenyl	ug/g	<0.0050	0.0050	N/A	8380239	<0.0050	<0.0050	0.0050	N/A	8380239
Perylene	ug/g	0.012	0.0050	N/A	8380239	0.012	0.015	0.0050	N/A	8380239
Surrogate Recovery (%)										
D10-Anthracene	%	93			8380239	103	100			8380239
D14-Terphenyl (FS)	%	103			8380239	116	114			8380239
D8-Acenaphthylene	%	74			8380239	88	88			8380239

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		UKM453	UKM454	UKM495	UKM496	UKM497			
Sampling Date		2022/11/24 11:32	2022/11/24 11:40	2022/11/24 11:48	2022/11/24 13:16	2022/11/24 13:22			
COC Number		907894-03-01	907894-03-01	907894-04-01	907894-04-01	907894-04-01			
	UNITS	BH22-12-SS1	BH22-12-SS2	BH22-12-SS3	BH22-05-SS1	BH22-05-SS2	RDL	MDL	QC Batch
Calculated Parameters									
Benzo(a)pyrene Total Potency Equiv.	ug/g	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	N/A	8369548
Index of Additive Cancer Risk -IACR	N/A	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	N/A	8369547
Polyaromatic Hydrocarbons									
Benzo(e)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	N/A	8380239
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8380239
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8380239
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8380239
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0040	8380239
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8380239
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0020	8380239
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0040	8380239
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0040	8380239
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Phenanthrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.0010	8380239
Biphenyl	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	N/A	8380239
Perylene	ug/g	<0.0050	0.0077	0.019	<0.0050	0.013	0.0050	N/A	8380239
Surrogate Recovery (%)									
D10-Anthracene	%	100	103	104	92	102			8380239
D14-Terphenyl (FS)	%	112	117	117	102	116			8380239
D8-Acenaphthylene	%	87	87	89	75	85			8380239

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Bureau Veritas ID		UKM499	UKM500	UKM501		UKM503			
Sampling Date		2022/11/24 15:30	2022/11/24	2022/11/24 14:58		2022/11/24 15:10			
COC Number		907894-04-01	907894-04-01	907894-04-01		907894-04-01			
	UNITS	BH22-09-SS1	DUP-004	BH22-09-SS3	QC Batch	BH22-09-SS5	RDL	MDL	QC Batch
Calculated Parameters									
Benzo(a)pyrene Total Potency Equiv.	ug/g	<0.01	<0.01	<0.01	8369548	<0.01	0.01	N/A	8373251
Index of Additive Cancer Risk -IACR	N/A	<0.1	<0.1	<0.1	8369547	<0.1	0.1	N/A	8373253
Polyaromatic Hydrocarbons									
Benzo(e)pyrene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	N/A	8380239
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0020	8380239
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0010	8380239
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0010	8380239
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0020	8380239
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0010	8380239
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0020	8380239
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0040	8380239
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0020	8380239
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0020	8380239
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0040	8380239
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0010	8380239
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0010	8380239
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0040	8380239
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0010	8380239
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0010	8380239
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0010	8380239
Phenanthrene	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0010	8380239
Pyrene	ug/g	0.026	<0.0050	<0.0050	8380239	<0.0050	0.0050	0.0010	8380239
Biphenyl	ug/g	<0.0050	<0.0050	<0.0050	8380239	<0.0050	0.0050	N/A	8380239
Perylene	ug/g	0.0078	<0.0050	0.012	8380239	0.042	0.0050	N/A	8380239
Surrogate Recovery (%)									
D10-Anthracene	%	101	99	100	8380239	101			8380239
D14-Terphenyl (FS)	%	115	114	113	8380239	123			8380239
D8-Acenaphthylene	%	91	88	88	8380239	89			8380239

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKM446	UKM447	UKM449	UKM450	UKM452			
Sampling Date		2022/11/24 07:35	2022/11/24 07:40	2022/11/24 09:40	2022/11/24 09:56	2022/11/24			
COC Number		907894-03-01	907894-03-01	907894-03-01	907894-03-01	907894-03-01			
	UNITS	BH22-06-SS2	BH22-06-SS3	BH22-01-SS2	BH22-01-SS3	DUP-003	RDL	MDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.010	8369449
Volatile Organics									
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	<0.49	<0.49	0.49	0.49	8371108
Benzene	ug/g	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	0.0060	8371108
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Bromoform	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Bromomethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Chloroform	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	<0.049	<0.049	0.049	0.049	8371108
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	0.030	8371108
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.010	8371108
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Hexane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	<0.049	<0.049	0.049	0.049	8371108
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	0.40	8371108
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	0.40	8371108
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Styrene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKM446	UKM447	UKM449	UKM450	UKM452			
Sampling Date		2022/11/24 07:35	2022/11/24 07:40	2022/11/24 09:40	2022/11/24 09:56	2022/11/24			
COC Number		907894-03-01	907894-03-01	907894-03-01	907894-03-01	907894-03-01			
	UNITS	BH22-06-SS2	BH22-06-SS3	BH22-01-SS2	BH22-01-SS3	DUP-003	RDL	MDL	QC Batch
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8371108
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.010	8371108
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	<0.019	<0.019	0.019	0.019	8371108
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8371108
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8371108
Total Xylenes	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8371108
F1 (C6-C10)	ug/g	<10	<10	<10	<10	<10	10	2.0	8371108
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	<10	10	2.0	8371108
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	89	89	90	88	90			8371108
D10-o-Xylene	%	97	106	105	105	104			8371108
D4-1,2-Dichloroethane	%	105	104	104	105	104			8371108
D8-Toluene	%	95	96	96	96	95			8371108

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKM453	UKM454	UKM495	UKM496	UKM497			
Sampling Date		2022/11/24 11:32	2022/11/24 11:40	2022/11/24 11:48	2022/11/24 13:16	2022/11/24 13:22			
COC Number		907894-03-01	907894-03-01	907894-04-01	907894-04-01	907894-04-01			
	UNITS	BH22-12-SS1	BH22-12-SS2	BH22-12-SS3	BH22-05-SS1	BH22-05-SS2	RDL	MDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.010	8369449
Volatile Organics									
Acetone (2-Propanone)	ug/g	<0.49	<0.49	<0.49	<0.49	<0.49	0.49	0.49	8371108
Benzene	ug/g	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	0.0060	8371108
Bromodichloromethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Bromoform	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Bromomethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Carbon Tetrachloride	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Chlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Chloroform	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Dibromochloromethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,1-Dichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,2-Dichloroethane	ug/g	<0.049	<0.049	<0.049	<0.049	<0.049	0.049	0.049	8371108
1,1-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,2-Dichloropropane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	0.030	8371108
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Ethylbenzene	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.010	8371108
Ethylene Dibromide	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Hexane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	<0.049	<0.049	<0.049	0.049	0.049	8371108
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	0.40	8371108
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	0.40	8371108
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Styrene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKM453	UKM454	UKM495	UKM496	UKM497			
Sampling Date		2022/11/24 11:32	2022/11/24 11:40	2022/11/24 11:48	2022/11/24 13:16	2022/11/24 13:22			
COC Number		907894-03-01	907894-03-01	907894-04-01	907894-04-01	907894-04-01			
	UNITS	**BH22-12-SS1**	**BH22-12-SS2**	**BH22-12-SS3**	**BH22-05-SS1**	**BH22-05-SS2**	**RDL**	**MDL**	**QC Batch**
Tetrachloroethylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8371108
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Trichloroethylene	ug/g	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	0.010	8371108
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	0.040	8371108
Vinyl Chloride	ug/g	<0.019	<0.019	<0.019	<0.019	<0.019	0.019	0.019	8371108
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8371108
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8371108
Total Xylenes	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	8371108
F1 (C6-C10)	ug/g	<10	<10	<10	<10	<10	10	2.0	8371108
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	<10	10	2.0	8371108
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	89	89	90	90	88			8371108
D10-o-Xylene	%	101	105	98	93	102			8371108
D4-1,2-Dichloroethane	%	105	107	103	106	105			8371108
D8-Toluene	%	96	95	95	95	95			8371108

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKM499	UKM500		UKM501			
Sampling Date		2022/11/24 15:30	2022/11/24		2022/11/24 14:58			
COC Number		907894-04-01	907894-04-01		907894-04-01			
	UNITS	BH22-09-SS1	DUP-004	QC Batch	BH22-09-SS3	RDL	MDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	8369449	<0.050	0.050	0.010	8369449
Volatile Organics								
Acetone (2-Propanone)	ug/g	<0.49	<0.49	8371108	<0.49	0.49	0.49	8371748
Benzene	ug/g	<0.0060	<0.0060	8371108	<0.0060	0.0060	0.0060	8371748
Bromodichloromethane	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Bromoform	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Bromomethane	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Carbon Tetrachloride	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Chlorobenzene	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Chloroform	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Dibromochloromethane	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
1,1-Dichloroethane	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
1,2-Dichloroethane	ug/g	<0.049	<0.049	8371108	<0.049	0.049	0.049	8371748
1,1-Dichloroethylene	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
1,2-Dichloropropane	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	8371108	<0.030	0.030	0.030	8371748
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Ethylbenzene	ug/g	<0.010	<0.010	8371108	<0.010	0.010	0.010	8371748
Ethylene Dibromide	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Hexane	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	8371108	<0.049	0.049	0.049	8371748
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	8371108	<0.40	0.40	0.40	8371748
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	8371108	<0.40	0.40	0.40	8371748
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Styrene	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKM499	UKM500		UKM501			
Sampling Date		2022/11/24 15:30	2022/11/24		2022/11/24 14:58			
COC Number		907894-04-01	907894-04-01		907894-04-01			
	UNITS	BH22-09-SS1	DUP-004	QC Batch	BH22-09-SS3	RDL	MDL	QC Batch
Tetrachloroethylene	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Toluene	ug/g	<0.020	<0.020	8371108	<0.020	0.020	0.020	8371748
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Trichloroethylene	ug/g	<0.010	<0.010	8371108	<0.010	0.010	0.010	8371748
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	8371108	<0.040	0.040	0.040	8371748
Vinyl Chloride	ug/g	<0.019	<0.019	8371108	<0.019	0.019	0.019	8371748
p+m-Xylene	ug/g	<0.020	<0.020	8371108	<0.020	0.020	0.020	8371748
o-Xylene	ug/g	<0.020	<0.020	8371108	<0.020	0.020	0.020	8371748
Total Xylenes	ug/g	<0.020	<0.020	8371108	<0.020	0.020	0.020	8371748
F1 (C6-C10)	ug/g	<10	<10	8371108	<10	10	2.0	8371748
F1 (C6-C10) - BTEX	ug/g	<10	<10	8371108	<10	10	2.0	8371748
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	89	90	8371108	80			8371748
D10-o-Xylene	%	110	99	8371108	99			8371748
D4-1,2-Dichloroethane	%	108	107	8371108	112			8371748
D8-Toluene	%	94	94	8371108	86			8371748

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKM503			
Sampling Date		2022/11/24 15:10			
COC Number		907894-04-01			
	UNITS	BH22-09-SS5	RDL	MDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	0.010	8372950
Volatile Organics					
Acetone (2-Propanone)	ug/g	<0.49	0.49	0.49	8385241
Benzene	ug/g	<0.0060	0.0060	0.0060	8385241
Bromodichloromethane	ug/g	<0.040	0.040	0.040	8385241
Bromoform	ug/g	<0.040	0.040	0.040	8385241
Bromomethane	ug/g	<0.040	0.040	0.040	8385241
Carbon Tetrachloride	ug/g	<0.040	0.040	0.040	8385241
Chlorobenzene	ug/g	<0.040	0.040	0.040	8385241
Chloroform	ug/g	<0.040	0.040	0.040	8385241
Dibromochloromethane	ug/g	<0.040	0.040	0.040	8385241
1,2-Dichlorobenzene	ug/g	<0.040	0.040	0.040	8385241
1,3-Dichlorobenzene	ug/g	<0.040	0.040	0.040	8385241
1,4-Dichlorobenzene	ug/g	<0.040	0.040	0.040	8385241
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	0.040	8385241
1,1-Dichloroethane	ug/g	<0.040	0.040	0.040	8385241
1,2-Dichloroethane	ug/g	<0.049	0.049	0.049	8385241
1,1-Dichloroethylene	ug/g	<0.040	0.040	0.040	8385241
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	0.040	8385241
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	0.040	8385241
1,2-Dichloropropane	ug/g	<0.040	0.040	0.040	8385241
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	0.030	8385241
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	0.040	8385241
Ethylbenzene	ug/g	<0.010	0.010	0.010	8385241
Ethylene Dibromide	ug/g	<0.040	0.040	0.040	8385241
Hexane	ug/g	<0.040	0.040	0.040	8385241
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	0.049	8385241
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	0.40	8385241
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	0.40	8385241
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	0.040	8385241
Styrene	ug/g	<0.040	0.040	0.040	8385241
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	0.040	8385241
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	0.040	8385241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKM503			
Sampling Date		2022/11/24 15:10			
COC Number		907894-04-01			
	UNITS	**BH22-09-SS5**	**RDL**	**MDL**	**QC Batch**
Tetrachloroethylene	ug/g	<0.040	0.040	0.040	8385241
Toluene	ug/g	<0.020	0.020	0.020	8385241
1,1,1-Trichloroethane	ug/g	<0.040	0.040	0.040	8385241
1,1,2-Trichloroethane	ug/g	<0.040	0.040	0.040	8385241
Trichloroethylene	ug/g	<0.010	0.010	0.010	8385241
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	0.040	8385241
Vinyl Chloride	ug/g	<0.019	0.019	0.019	8385241
p+m-Xylene	ug/g	<0.020	0.020	0.020	8385241
o-Xylene	ug/g	<0.020	0.020	0.020	8385241
Total Xylenes	ug/g	<0.020	0.020	0.020	8385241
F1 (C6-C10)	ug/g	<10	10	2.0	8385241
F1 (C6-C10) - BTEX	ug/g	<10	10	2.0	8385241
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	89			8385241
D10-o-Xylene	%	87			8385241
D4-1,2-Dichloroethane	%	102			8385241
D8-Toluene	%	96			8385241

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		UKM446	UKM447	UKM449	UKM450	UKM452	UKM453			
Sampling Date		2022/11/24 07:35	2022/11/24 07:40	2022/11/24 09:40	2022/11/24 09:56	2022/11/24	2022/11/24 11:32			
COC Number		907894-03-01	907894-03-01	907894-03-01	907894-03-01	907894-03-01	907894-03-01			
	UNITS	BH22-06-SS2	BH22-06-SS3	BH22-01-SS2	BH22-01-SS3	DUP-003	BH22-12-SS1	RDL	MDL	QC Batch
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	<10	<10	10	5.0	8383006
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	<50	50	5.0	8383006
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	<50	50	10	8383006
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	Yes	Yes			8383006
Surrogate Recovery (%)										
o-Terphenyl	%	91	87	88	90	88	87			8383006

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		UKM454	UKM495	UKM496	UKM496	UKM497	UKM499			
Sampling Date		2022/11/24 11:40	2022/11/24 11:48	2022/11/24 13:16	2022/11/24 13:16	2022/11/24 13:22	2022/11/24 15:30			
COC Number		907894-03-01	907894-04-01	907894-04-01	907894-04-01	907894-04-01	907894-04-01			
	UNITS	BH22-12-SS2	BH22-12-SS3	BH22-05-SS1	BH22-05-SS1 Lab-Dup	BH22-05-SS2	BH22-09-SS1	RDL	MDL	QC Batch
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	<10	<10	10	5.0	8383006
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	<50	50	5.0	8383006
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	<50	50	10	8383006
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	Yes	Yes			8383006
Surrogate Recovery (%)										
o-Terphenyl	%	92	90	92	88	91	87			8383006

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

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		UKM500	UKM501		UKM503			
Sampling Date		2022/11/24	2022/11/24 14:58		2022/11/24 15:10			
COC Number		907894-04-01	907894-04-01		907894-04-01			
	UNITS	**DUP-004**	**BH22-09-SS3**	**QC Batch**	**BH22-09-SS5**	**RDL**	**MDL**	**QC Batch**
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	8383006	<10	10	5.0	8383687
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	8383006	<50	50	5.0	8383687
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	8383006	<50	50	10	8383687
Reached Baseline at C50	ug/g	Yes	Yes	8383006	Yes			8383687
Surrogate Recovery (%)								
o-Terphenyl	%	90	87	8383006	99			8383687

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

TEST SUMMARY

Bureau Veritas ID: UKM446
Sample ID: BH22-06-SS2
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
Hot Water Extractable Boron	ICP	8376724	2022/11/30	2022/12/01	Indira HarryPaul
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377761	2022/12/01	2022/12/03	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8377540	2022/12/01	2022/12/01	Azita Fazaeli
Moisture	BAL	8374298	N/A	2022/11/29	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8378104	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/29	Denis Reid

Bureau Veritas ID: UKM446 Dup
Sample ID: BH22-06-SS2
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hot Water Extractable Boron	ICP	8376724	2022/11/30	2022/12/01	Indira HarryPaul
Acid Extractable Metals by ICPMS	ICP/MS	8377540	2022/12/01	2022/12/01	Azita Fazaeli

Bureau Veritas ID: UKM447
Sample ID: BH22-06-SS3
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377761	2022/12/01	2022/12/03	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8375876	2022/11/30	2022/11/30	Azita Fazaeli
Moisture	BAL	8374030	N/A	2022/11/29	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8378104	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/29	Denis Reid

Bureau Veritas ID: UKM447 Dup
Sample ID: BH22-06-SS3
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8374030	N/A	2022/11/29	Joe Thomas

TEST SUMMARY

Bureau Veritas ID: UKM449 **Collected:** 2022/11/24
Sample ID: BH22-01-SS2 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
Hot Water Extractable Boron	ICP	8376259	2022/11/30	2022/11/30	Thuy Linh Nguyen
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377761	2022/12/01	2022/12/03	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8377540	2022/12/01	2022/12/01	Azita Fazaeli
Moisture	BAL	8374298	N/A	2022/11/29	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8378104	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/29	Denis Reid

Bureau Veritas ID: UKM449 Dup **Collected:** 2022/11/24
Sample ID: BH22-01-SS2 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon

Bureau Veritas ID: UKM450 **Collected:** 2022/11/24
Sample ID: BH22-01-SS3 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377761	2022/12/01	2022/12/03	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8375876	2022/11/30	2022/11/30	Azita Fazaeli
Moisture	BAL	8374298	N/A	2022/11/29	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8378104	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/29	Denis Reid

Bureau Veritas ID: UKM450 Dup **Collected:** 2022/11/24
Sample ID: BH22-01-SS3 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8374298	N/A	2022/11/29	Mathew Bowles

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

TEST SUMMARY

Bureau Veritas ID: UKM452
Sample ID: DUP-003
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
Hot Water Extractable Boron	ICP	8376724	2022/11/30	2022/12/01	Indira HarryPaul
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377761	2022/12/01	2022/12/03	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8377540	2022/12/01	2022/12/01	Azita Fazaeli
Moisture	BAL	8373970	N/A	2022/11/29	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8378104	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/30	Denis Reid

Bureau Veritas ID: UKM452 Dup
Sample ID: DUP-003
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8373970	N/A	2022/11/29	Joe Thomas

Bureau Veritas ID: UKM453
Sample ID: BH22-12-SS1
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
Hot Water Extractable Boron	ICP	8376724	2022/11/30	2022/12/01	Indira HarryPaul
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377761	2022/12/01	2022/12/03	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8377540	2022/12/01	2022/12/01	Azita Fazaeli
Moisture	BAL	8374298	N/A	2022/11/29	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8378104	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/30	Denis Reid

Bureau Veritas ID: UKM454
Sample ID: BH22-12-SS2
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
Hot Water Extractable Boron	ICP	8376724	2022/11/30	2022/12/01	Indira HarryPaul
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377761	2022/12/01	2022/12/03	Sousan Besharatlou

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

TEST SUMMARY

Bureau Veritas ID: UKM454 **Collected:** 2022/11/24
Sample ID: BH22-12-SS2 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8377540	2022/12/01	2022/12/01	Azita Fazaeli
Moisture	BAL	8374298	N/A	2022/11/29	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8378104	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/30	Denis Reid

Bureau Veritas ID: UKM455 **Collected:** 2022/11/24
Sample ID: BH22-12-SS4 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	8377756	2022/12/01	2022/12/03	Surleen Kaur Romana
Acid Extractable Metals by ICPMS	ICP/MS	8375876	2022/11/30	2022/11/30	Azita Fazaeli
Moisture	BAL	8375440	N/A	2022/11/30	Shivani Desai
pH CaCl2 EXTRACT	AT	8377820	2022/12/01	2022/12/01	Taslima Aktar
Sieve, 75um	SIEV	8376007	N/A	2022/11/30	Muhammad Chhaidan

Bureau Veritas ID: UKM455 Dup **Collected:** 2022/11/24
Sample ID: BH22-12-SS4 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8375440	N/A	2022/11/30	Shivani Desai

Bureau Veritas ID: UKM495 **Collected:** 2022/11/24
Sample ID: BH22-12-SS3 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Moisture	BAL	8373092	N/A	2022/11/29	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/30	Denis Reid

Bureau Veritas ID: UKM495 Dup **Collected:** 2022/11/24
Sample ID: BH22-12-SS3 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8373092	N/A	2022/11/29	Joe Thomas

TEST SUMMARY

Bureau Veritas ID: UKM496 **Collected:** 2022/11/24
Sample ID: BH22-05-SS1 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
Hot Water Extractable Boron	ICP	8377899	2022/12/01	2022/12/01	Indira HarryPaul
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377756	2022/12/01	2022/12/03	Surleen Kaur Romana
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8377540	2022/12/01	2022/12/01	Azita Fazaeli
Moisture	BAL	8376353	N/A	2022/11/30	Shivani Desai
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8377820	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/30	Denis Reid

Bureau Veritas ID: UKM496 Dup **Collected:** 2022/11/24
Sample ID: BH22-05-SS1 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	8377756	2022/12/01	2022/12/03	Surleen Kaur Romana
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
Moisture	BAL	8376353	N/A	2022/11/30	Shivani Desai

Bureau Veritas ID: UKM497 **Collected:** 2022/11/24
Sample ID: BH22-05-SS2 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Moisture	BAL	8374298	N/A	2022/11/29	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/30	Denis Reid

Bureau Veritas ID: UKM498 **Collected:** 2022/11/24
Sample ID: BH22-05-SS3 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hexavalent Chromium in Soil by IC	IC/SPEC	8377756	2022/12/01	2022/12/03	Surleen Kaur Romana
Acid Extractable Metals by ICPMS	ICP/MS	8375876	2022/11/30	2022/11/30	Azita Fazaeli
Moisture	BAL	8375440	N/A	2022/11/30	Shivani Desai
pH CaCl2 EXTRACT	AT	8377820	2022/12/01	2022/12/01	Taslima Aktar

TEST SUMMARY

Bureau Veritas ID: UKM499 **Collected:** 2022/11/24
Sample ID: BH22-09-SS1 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
Hot Water Extractable Boron	ICP	8376259	2022/11/30	2022/11/30	Thuy Linh Nguyen
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377761	2022/12/01	2022/12/03	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8377540	2022/12/01	2022/12/01	Azita Fazaeli
Moisture	BAL	8374298	N/A	2022/11/29	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8378104	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/30	Denis Reid

Bureau Veritas ID: UKM500 **Collected:** 2022/11/24
Sample ID: DUP-004 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
Hot Water Extractable Boron	ICP	8376724	2022/11/30	2022/12/01	Indira HarryPaul
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/11/30	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377761	2022/12/01	2022/12/03	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8377540	2022/12/01	2022/12/01	Azita Fazaeli
Moisture	BAL	8374298	N/A	2022/11/29	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8378104	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371108	N/A	2022/11/30	Denis Reid

Bureau Veritas ID: UKM501 **Collected:** 2022/11/24
Sample ID: BH22-09-SS3 **Shipped:**
Matrix: Soil **Received:** 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8369548	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8369449	N/A	2022/12/01	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377761	2022/12/01	2022/12/03	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383006	2022/12/03	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8369547	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8375876	2022/11/30	2022/11/30	Azita Fazaeli
Moisture	BAL	8374298	N/A	2022/11/29	Mathew Bowles
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8378104	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8371748	N/A	2022/11/29	Blair Gannon

TEST SUMMARY

Bureau Veritas ID: UKM501 Dup
Sample ID: BH22-09-SS3
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8375876	2022/11/30	2022/11/30	Azita Fazaeli

Bureau Veritas ID: UKM502
Sample ID: BH22-09-SS4
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	8376007	N/A	2022/11/30	Muhammad Chhaidan

Bureau Veritas ID: UKM503
Sample ID: BH22-09-SS5
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
B[a]P Total Potency Equivalent	CALC	8373251	N/A	2022/12/05	Automated Statchk
1,3-Dichloropropene Sum	CALC	8372950	N/A	2022/12/06	Automated Statchk
Hexavalent Chromium in Soil by IC	IC/SPEC	8377756	2022/12/01	2022/12/03	Surleen Kaur Romana
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8383687	2022/12/04	2022/12/05	Anna Stuglik-Rolland
CCME Index of Additive Cancer Risk	CALC	8373253	2022/12/05	2022/12/05	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	8377512	2022/12/01	2022/12/01	Viviana Canzonieri
Moisture	BAL	8376813	N/A	2022/11/30	Shivani Desai
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8380239	2022/12/02	2022/12/03	Jonghan Yoon
pH CaCl2 EXTRACT	AT	8377816	2022/12/01	2022/12/01	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8385241	N/A	2022/12/06	Denis Reid

Bureau Veritas ID: UKM503 Dup
Sample ID: BH22-09-SS5
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8377512	2022/12/01	2022/12/01	Viviana Canzonieri

GENERAL COMMENTS

Revised Report [2022/12/09]: Biphenyl included as per client request.
Revised Report [2022/12/06]: Site location updated to 3850 Cambrian Road, Ottawa, ON and sample ID BH22-9A-SS1 updated to BH22-09-SS1 as per client request.

BH22-09-SS5 analyzed as per client request.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8371108	DR1	Matrix Spike	4-Bromofluorobenzene	2022/11/29		98	%	60 - 140
			D10-o-Xylene	2022/11/29		109	%	60 - 130
			D4-1,2-Dichloroethane	2022/11/29		106	%	60 - 140
			D8-Toluene	2022/11/29		100	%	60 - 140
			Acetone (2-Propanone)	2022/11/29		129	%	60 - 140
			Benzene	2022/11/29		101	%	60 - 140
			Bromodichloromethane	2022/11/29		115	%	60 - 140
			Bromoform	2022/11/29		116	%	60 - 140
			Bromomethane	2022/11/29		104	%	60 - 140
			Carbon Tetrachloride	2022/11/29		108	%	60 - 140
			Chlorobenzene	2022/11/29		101	%	60 - 140
			Chloroform	2022/11/29		110	%	60 - 140
			Dibromochloromethane	2022/11/29		112	%	60 - 140
			1,2-Dichlorobenzene	2022/11/29		97	%	60 - 140
			1,3-Dichlorobenzene	2022/11/29		99	%	60 - 140
			1,4-Dichlorobenzene	2022/11/29		113	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2022/11/29		119	%	60 - 140
			1,1-Dichloroethane	2022/11/29		105	%	60 - 140
			1,2-Dichloroethane	2022/11/29		105	%	60 - 140
			1,1-Dichloroethylene	2022/11/29		106	%	60 - 140
			cis-1,2-Dichloroethylene	2022/11/29		110	%	60 - 140
			trans-1,2-Dichloroethylene	2022/11/29		106	%	60 - 140
			1,2-Dichloropropane	2022/11/29		110	%	60 - 140
			cis-1,3-Dichloropropene	2022/11/29		99	%	60 - 140
			trans-1,3-Dichloropropene	2022/11/29		102	%	60 - 140
			Ethylbenzene	2022/11/29		92	%	60 - 140
			Ethylene Dibromide	2022/11/29		104	%	60 - 140
			Hexane	2022/11/29		108	%	60 - 140
			Methylene Chloride(Dichloromethane)	2022/11/29		112	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2022/11/29		130	%	60 - 140
			Methyl Isobutyl Ketone	2022/11/29		116	%	60 - 140
			Methyl t-butyl ether (MTBE)	2022/11/29		93	%	60 - 140
			Styrene	2022/11/29		105	%	60 - 140
			1,1,1,2-Tetrachloroethane	2022/11/29		107	%	60 - 140
			1,1,2,2-Tetrachloroethane	2022/11/29		121	%	60 - 140
			Tetrachloroethylene	2022/11/29		96	%	60 - 140
			Toluene	2022/11/29		100	%	60 - 140
			1,1,1-Trichloroethane	2022/11/29		105	%	60 - 140
			1,1,2-Trichloroethane	2022/11/29		113	%	60 - 140
			Trichloroethylene	2022/11/29		109	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2022/11/29		103	%	60 - 140
			Vinyl Chloride	2022/11/29		99	%	60 - 140
			p+m-Xylene	2022/11/29		94	%	60 - 140
			o-Xylene	2022/11/29		94	%	60 - 140
			F1 (C6-C10)	2022/11/29		96	%	60 - 140
8371108	DR1	Spiked Blank	4-Bromofluorobenzene	2022/11/29		98	%	60 - 140
			D10-o-Xylene	2022/11/29		93	%	60 - 130
			D4-1,2-Dichloroethane	2022/11/29		109	%	60 - 140
			D8-Toluene	2022/11/29		101	%	60 - 140
			Acetone (2-Propanone)	2022/11/29		130	%	60 - 140
			Benzene	2022/11/29		103	%	60 - 130
			Bromodichloromethane	2022/11/29		117	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Bromoform	2022/11/29		120	%	60 - 130
			Bromomethane	2022/11/29		111	%	60 - 140
			Carbon Tetrachloride	2022/11/29		110	%	60 - 130
			Chlorobenzene	2022/11/29		101	%	60 - 130
			Chloroform	2022/11/29		111	%	60 - 130
			Dibromochloromethane	2022/11/29		115	%	60 - 130
			1,2-Dichlorobenzene	2022/11/29		95	%	60 - 130
			1,3-Dichlorobenzene	2022/11/29		95	%	60 - 130
			1,4-Dichlorobenzene	2022/11/29		109	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2022/11/29		125	%	60 - 140
			1,1-Dichloroethane	2022/11/29		108	%	60 - 130
			1,2-Dichloroethane	2022/11/29		108	%	60 - 130
			1,1-Dichloroethylene	2022/11/29		109	%	60 - 130
			cis-1,2-Dichloroethylene	2022/11/29		113	%	60 - 130
			trans-1,2-Dichloroethylene	2022/11/29		109	%	60 - 130
			1,2-Dichloropropane	2022/11/29		111	%	60 - 130
			cis-1,3-Dichloropropene	2022/11/29		100	%	60 - 130
			trans-1,3-Dichloropropene	2022/11/29		104	%	60 - 130
			Ethylbenzene	2022/11/29		91	%	60 - 130
			Ethylene Dibromide	2022/11/29		107	%	60 - 130
			Hexane	2022/11/29		111	%	60 - 130
			Methylene Chloride(Dichloromethane)	2022/11/29		116	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/11/29		133	%	60 - 140
			Methyl Isobutyl Ketone	2022/11/29		120	%	60 - 130
			Methyl t-butyl ether (MTBE)	2022/11/29		93	%	60 - 130
			Styrene	2022/11/29		104	%	60 - 130
			1,1,1,2-Tetrachloroethane	2022/11/29		108	%	60 - 130
			1,1,2,2-Tetrachloroethane	2022/11/29		124	%	60 - 130
			Tetrachloroethylene	2022/11/29		95	%	60 - 130
			Toluene	2022/11/29		100	%	60 - 130
			1,1,1-Trichloroethane	2022/11/29		106	%	60 - 130
			1,1,2-Trichloroethane	2022/11/29		116	%	60 - 130
			Trichloroethylene	2022/11/29		110	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2022/11/29		107	%	60 - 130
			Vinyl Chloride	2022/11/29		105	%	60 - 130
			p+m-Xylene	2022/11/29		92	%	60 - 130
			o-Xylene	2022/11/29		92	%	60 - 130
			F1 (C6-C10)	2022/11/29		103	%	80 - 120
8371108	DR1	Method Blank	4-Bromofluorobenzene	2022/11/29		88	%	60 - 140
			D10-o-Xylene	2022/11/29		96	%	60 - 130
			D4-1,2-Dichloroethane	2022/11/29		102	%	60 - 140
			D8-Toluene	2022/11/29		95	%	60 - 140
			Acetone (2-Propanone)	2022/11/29	<0.49		ug/g	
			Benzene	2022/11/29	<0.0060		ug/g	
			Bromodichloromethane	2022/11/29	<0.040		ug/g	
			Bromoform	2022/11/29	<0.040		ug/g	
			Bromomethane	2022/11/29	<0.040		ug/g	
			Carbon Tetrachloride	2022/11/29	<0.040		ug/g	
			Chlorobenzene	2022/11/29	<0.040		ug/g	
			Chloroform	2022/11/29	<0.040		ug/g	
			Dibromochloromethane	2022/11/29	<0.040		ug/g	
			1,2-Dichlorobenzene	2022/11/29	<0.040		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,3-Dichlorobenzene	2022/11/29	<0.040		ug/g	
			1,4-Dichlorobenzene	2022/11/29	<0.040		ug/g	
			Dichlorodifluoromethane (FREON 12)	2022/11/29	<0.040		ug/g	
			1,1-Dichloroethane	2022/11/29	<0.040		ug/g	
			1,2-Dichloroethane	2022/11/29	<0.049		ug/g	
			1,1-Dichloroethylene	2022/11/29	<0.040		ug/g	
			cis-1,2-Dichloroethylene	2022/11/29	<0.040		ug/g	
			trans-1,2-Dichloroethylene	2022/11/29	<0.040		ug/g	
			1,2-Dichloropropane	2022/11/29	<0.040		ug/g	
			cis-1,3-Dichloropropene	2022/11/29	<0.030		ug/g	
			trans-1,3-Dichloropropene	2022/11/29	<0.040		ug/g	
			Ethylbenzene	2022/11/29	<0.010		ug/g	
			Ethylene Dibromide	2022/11/29	<0.040		ug/g	
			Hexane	2022/11/29	<0.040		ug/g	
			Methylene Chloride(Dichloromethane)	2022/11/29	<0.049		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2022/11/29	<0.40		ug/g	
			Methyl Isobutyl Ketone	2022/11/29	<0.40		ug/g	
			Methyl t-butyl ether (MTBE)	2022/11/29	<0.040		ug/g	
			Styrene	2022/11/29	<0.040		ug/g	
			1,1,1,2-Tetrachloroethane	2022/11/29	<0.040		ug/g	
			1,1,2,2-Tetrachloroethane	2022/11/29	<0.040		ug/g	
			Tetrachloroethylene	2022/11/29	<0.040		ug/g	
			Toluene	2022/11/29	<0.020		ug/g	
			1,1,1-Trichloroethane	2022/11/29	<0.040		ug/g	
			1,1,2-Trichloroethane	2022/11/29	<0.040		ug/g	
			Trichloroethylene	2022/11/29	<0.010		ug/g	
			Trichlorofluoromethane (FREON 11)	2022/11/29	<0.040		ug/g	
			Vinyl Chloride	2022/11/29	<0.019		ug/g	
			p+m-Xylene	2022/11/29	<0.020		ug/g	
			o-Xylene	2022/11/29	<0.020		ug/g	
			Total Xylenes	2022/11/29	<0.020		ug/g	
			F1 (C6-C10)	2022/11/29	<10		ug/g	
			F1 (C6-C10) - BTEX	2022/11/29	<10		ug/g	
8371108	DR1	RPD	Acetone (2-Propanone)	2022/11/29	NC		%	50
			Benzene	2022/11/29	6.1		%	50
			Bromodichloromethane	2022/11/29	NC		%	50
			Bromoform	2022/11/29	NC		%	50
			Bromomethane	2022/11/29	NC		%	50
			Carbon Tetrachloride	2022/11/29	NC		%	50
			Chlorobenzene	2022/11/29	NC		%	50
			Chloroform	2022/11/29	NC		%	50
			Dibromochloromethane	2022/11/29	NC		%	50
			1,2-Dichlorobenzene	2022/11/29	NC		%	50
			1,3-Dichlorobenzene	2022/11/29	NC		%	50
			1,4-Dichlorobenzene	2022/11/29	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2022/11/29	NC		%	50
			1,1-Dichloroethane	2022/11/29	NC		%	50
			1,2-Dichloroethane	2022/11/29	NC		%	50
			1,1-Dichloroethylene	2022/11/29	NC		%	50
			cis-1,2-Dichloroethylene	2022/11/29	NC		%	50
			trans-1,2-Dichloroethylene	2022/11/29	NC		%	50
			1,2-Dichloropropane	2022/11/29	NC		%	50

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			cis-1,3-Dichloropropene	2022/11/29	NC		%	50
			trans-1,3-Dichloropropene	2022/11/29	NC		%	50
			Ethylbenzene	2022/11/29	1.3		%	50
			Ethylene Dibromide	2022/11/29	NC		%	50
			Hexane	2022/11/29	NC		%	50
			Methylene Chloride(Dichloromethane)	2022/11/29	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2022/11/29	NC		%	50
			Methyl Isobutyl Ketone	2022/11/29	NC		%	50
			Methyl t-butyl ether (MTBE)	2022/11/29	NC		%	50
			Styrene	2022/11/29	NC		%	50
			1,1,1,2-Tetrachloroethane	2022/11/29	NC		%	50
			1,1,2,2-Tetrachloroethane	2022/11/29	NC		%	50
			Tetrachloroethylene	2022/11/29	NC		%	50
			Toluene	2022/11/29	1.7		%	50
			1,1,1-Trichloroethane	2022/11/29	NC		%	50
			1,1,2-Trichloroethane	2022/11/29	NC		%	50
			Trichloroethylene	2022/11/29	NC		%	50
			Trichlorofluoromethane (FREON 11)	2022/11/29	NC		%	50
			Vinyl Chloride	2022/11/29	NC		%	50
			p+m-Xylene	2022/11/29	1.6		%	50
			o-Xylene	2022/11/29	0.74		%	50
			Total Xylenes	2022/11/29	1.2		%	50
			F1 (C6-C10)	2022/11/29	NC		%	30
			F1 (C6-C10) - BTEX	2022/11/29	NC		%	30
8371748	BG1	Matrix Spike	4-Bromofluorobenzene	2022/11/29		106	%	60 - 140
			D10-o-Xylene	2022/11/29		107	%	60 - 130
			D4-1,2-Dichloroethane	2022/11/29		104	%	60 - 140
			D8-Toluene	2022/11/29		104	%	60 - 140
			Acetone (2-Propanone)	2022/11/29		93	%	60 - 140
			Benzene	2022/11/29		91	%	60 - 140
			Bromodichloromethane	2022/11/29		102	%	60 - 140
			Bromoform	2022/11/29		98	%	60 - 140
			Bromomethane	2022/11/29		101	%	60 - 140
			Carbon Tetrachloride	2022/11/29		100	%	60 - 140
			Chlorobenzene	2022/11/29		95	%	60 - 140
			Chloroform	2022/11/29		100	%	60 - 140
			Dibromochloromethane	2022/11/29		97	%	60 - 140
			1,2-Dichlorobenzene	2022/11/29		94	%	60 - 140
			1,3-Dichlorobenzene	2022/11/29		95	%	60 - 140
			1,4-Dichlorobenzene	2022/11/29		107	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2022/11/29		104	%	60 - 140
			1,1-Dichloroethane	2022/11/29		95	%	60 - 140
			1,2-Dichloroethane	2022/11/29		94	%	60 - 140
			1,1-Dichloroethylene	2022/11/29		96	%	60 - 140
			cis-1,2-Dichloroethylene	2022/11/29		101	%	60 - 140
			trans-1,2-Dichloroethylene	2022/11/29		98	%	60 - 140
			1,2-Dichloropropane	2022/11/29		94	%	60 - 140
			cis-1,3-Dichloropropene	2022/11/29		98	%	60 - 140
			trans-1,3-Dichloropropene	2022/11/29		102	%	60 - 140
			Ethylbenzene	2022/11/29		82	%	60 - 140
			Ethylene Dibromide	2022/11/29		92	%	60 - 140
			Hexane	2022/11/29		98	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methylene Chloride(Dichloromethane)	2022/11/29		97	%	60 - 140
			Methyl Ethyl Ketone (2-Butanone)	2022/11/29		92	%	60 - 140
			Methyl Isobutyl Ketone	2022/11/29		90	%	60 - 140
			Methyl t-butyl ether (MTBE)	2022/11/29		86	%	60 - 140
			Styrene	2022/11/29		99	%	60 - 140
			1,1,1,2-Tetrachloroethane	2022/11/29		100	%	60 - 140
			1,1,2,2-Tetrachloroethane	2022/11/29		91	%	60 - 140
			Tetrachloroethylene	2022/11/29		92	%	60 - 140
			Toluene	2022/11/29		88	%	60 - 140
			1,1,1-Trichloroethane	2022/11/29		101	%	60 - 140
			1,1,2-Trichloroethane	2022/11/29		100	%	60 - 140
			Trichloroethylene	2022/11/29		103	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2022/11/29		100	%	60 - 140
			Vinyl Chloride	2022/11/29		90	%	60 - 140
			p+m-Xylene	2022/11/29		83	%	60 - 140
			o-Xylene	2022/11/29		87	%	60 - 140
			F1 (C6-C10)	2022/11/29		88	%	60 - 140
8371748	BG1	Spiked Blank	4-Bromofluorobenzene	2022/11/29		83	%	60 - 140
			D10-o-Xylene	2022/11/29		90	%	60 - 130
			D4-1,2-Dichloroethane	2022/11/29		100	%	60 - 140
			D8-Toluene	2022/11/29		103	%	60 - 140
			Acetone (2-Propanone)	2022/11/29		89	%	60 - 140
			Benzene	2022/11/29		90	%	60 - 130
			Bromodichloromethane	2022/11/29		99	%	60 - 130
			Bromoform	2022/11/29		96	%	60 - 130
			Bromomethane	2022/11/29		98	%	60 - 140
			Carbon Tetrachloride	2022/11/29		101	%	60 - 130
			Chlorobenzene	2022/11/29		96	%	60 - 130
			Chloroform	2022/11/29		98	%	60 - 130
			Dibromochloromethane	2022/11/29		96	%	60 - 130
			1,2-Dichlorobenzene	2022/11/29		95	%	60 - 130
			1,3-Dichlorobenzene	2022/11/29		97	%	60 - 130
			1,4-Dichlorobenzene	2022/11/29		110	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2022/11/29		110	%	60 - 140
			1,1-Dichloroethane	2022/11/29		94	%	60 - 130
			1,2-Dichloroethane	2022/11/29		91	%	60 - 130
			1,1-Dichloroethylene	2022/11/29		97	%	60 - 130
			cis-1,2-Dichloroethylene	2022/11/29		98	%	60 - 130
			trans-1,2-Dichloroethylene	2022/11/29		97	%	60 - 130
			1,2-Dichloropropane	2022/11/29		91	%	60 - 130
			cis-1,3-Dichloropropene	2022/11/29		94	%	60 - 130
			trans-1,3-Dichloropropene	2022/11/29		96	%	60 - 130
			Ethylbenzene	2022/11/29		86	%	60 - 130
			Ethylene Dibromide	2022/11/29		90	%	60 - 130
			Hexane	2022/11/29		99	%	60 - 130
			Methylene Chloride(Dichloromethane)	2022/11/29		95	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/11/29		89	%	60 - 140
			Methyl Isobutyl Ketone	2022/11/29		88	%	60 - 130
			Methyl t-butyl ether (MTBE)	2022/11/29		85	%	60 - 130
			Styrene	2022/11/29		101	%	60 - 130
			1,1,1,2-Tetrachloroethane	2022/11/29		101	%	60 - 130
			1,1,2,2-Tetrachloroethane	2022/11/29		89	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Tetrachloroethylene	2022/11/29		95	%	60 - 130
			Toluene	2022/11/29		90	%	60 - 130
			1,1,1-Trichloroethane	2022/11/29		103	%	60 - 130
			1,1,2-Trichloroethane	2022/11/29		98	%	60 - 130
			Trichloroethylene	2022/11/29		103	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2022/11/29		101	%	60 - 130
			Vinyl Chloride	2022/11/29		89	%	60 - 130
			p+m-Xylene	2022/11/29		88	%	60 - 130
			o-Xylene	2022/11/29		89	%	60 - 130
			F1 (C6-C10)	2022/11/29		100	%	80 - 120
8371748	BG1	Method Blank	4-Bromofluorobenzene	2022/11/29		76	%	60 - 140
			D10-o-Xylene	2022/11/29		89	%	60 - 130
			D4-1,2-Dichloroethane	2022/11/29		109	%	60 - 140
			D8-Toluene	2022/11/29		93	%	60 - 140
			Acetone (2-Propanone)	2022/11/29	<0.49		ug/g	
			Benzene	2022/11/29	<0.0060		ug/g	
			Bromodichloromethane	2022/11/29	<0.040		ug/g	
			Bromoform	2022/11/29	<0.040		ug/g	
			Bromomethane	2022/11/29	<0.040		ug/g	
			Carbon Tetrachloride	2022/11/29	<0.040		ug/g	
			Chlorobenzene	2022/11/29	<0.040		ug/g	
			Chloroform	2022/11/29	<0.040		ug/g	
			Dibromochloromethane	2022/11/29	<0.040		ug/g	
			1,2-Dichlorobenzene	2022/11/29	<0.040		ug/g	
			1,3-Dichlorobenzene	2022/11/29	<0.040		ug/g	
			1,4-Dichlorobenzene	2022/11/29	<0.040		ug/g	
			Dichlorodifluoromethane (FREON 12)	2022/11/29	<0.040		ug/g	
			1,1-Dichloroethane	2022/11/29	<0.040		ug/g	
			1,2-Dichloroethane	2022/11/29	<0.049		ug/g	
			1,1-Dichloroethylene	2022/11/29	<0.040		ug/g	
			cis-1,2-Dichloroethylene	2022/11/29	<0.040		ug/g	
			trans-1,2-Dichloroethylene	2022/11/29	<0.040		ug/g	
			1,2-Dichloropropane	2022/11/29	<0.040		ug/g	
			cis-1,3-Dichloropropene	2022/11/29	<0.030		ug/g	
			trans-1,3-Dichloropropene	2022/11/29	<0.040		ug/g	
			Ethylbenzene	2022/11/29	<0.010		ug/g	
			Ethylene Dibromide	2022/11/29	<0.040		ug/g	
			Hexane	2022/11/29	<0.040		ug/g	
			Methylene Chloride(Dichloromethane)	2022/11/29	<0.049		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2022/11/29	<0.40		ug/g	
			Methyl Isobutyl Ketone	2022/11/29	<0.40		ug/g	
			Methyl t-butyl ether (MTBE)	2022/11/29	<0.040		ug/g	
			Styrene	2022/11/29	<0.040		ug/g	
			1,1,1,2-Tetrachloroethane	2022/11/29	<0.040		ug/g	
			1,1,2,2-Tetrachloroethane	2022/11/29	<0.040		ug/g	
			Tetrachloroethylene	2022/11/29	<0.040		ug/g	
			Toluene	2022/11/29	<0.020		ug/g	
			1,1,1-Trichloroethane	2022/11/29	<0.040		ug/g	
			1,1,2-Trichloroethane	2022/11/29	<0.040		ug/g	
			Trichloroethylene	2022/11/29	<0.010		ug/g	
			Trichlorofluoromethane (FREON 11)	2022/11/29	<0.040		ug/g	
			Vinyl Chloride	2022/11/29	<0.019		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			p+m-Xylene	2022/11/29	<0.020		ug/g	
			o-Xylene	2022/11/29	<0.020		ug/g	
			Total Xylenes	2022/11/29	<0.020		ug/g	
			F1 (C6-C10)	2022/11/29	<10		ug/g	
			F1 (C6-C10) - BTEX	2022/11/29	<10		ug/g	
8371748	BG1	RPD	Acetone (2-Propanone)	2022/11/29	NC		%	50
			Benzene	2022/11/29	NC		%	50
			Bromodichloromethane	2022/11/29	NC		%	50
			Bromoform	2022/11/29	NC		%	50
			Bromomethane	2022/11/29	NC		%	50
			Carbon Tetrachloride	2022/11/29	NC		%	50
			Chlorobenzene	2022/11/29	NC		%	50
			Chloroform	2022/11/29	NC		%	50
			Dibromochloromethane	2022/11/29	NC		%	50
			1,2-Dichlorobenzene	2022/11/29	NC		%	50
			1,3-Dichlorobenzene	2022/11/29	NC		%	50
			1,4-Dichlorobenzene	2022/11/29	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2022/11/29	NC		%	50
			1,1-Dichloroethane	2022/11/29	NC		%	50
			1,2-Dichloroethane	2022/11/29	NC		%	50
			1,1-Dichloroethylene	2022/11/29	NC		%	50
			cis-1,2-Dichloroethylene	2022/11/29	NC		%	50
			trans-1,2-Dichloroethylene	2022/11/29	NC		%	50
			1,2-Dichloropropane	2022/11/29	NC		%	50
			cis-1,3-Dichloropropene	2022/11/29	NC		%	50
			trans-1,3-Dichloropropene	2022/11/29	NC		%	50
			Ethylbenzene	2022/11/29	NC		%	50
			Ethylene Dibromide	2022/11/29	NC		%	50
			Hexane	2022/11/29	NC		%	50
			Methylene Chloride(Dichloromethane)	2022/11/29	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2022/11/29	NC		%	50
			Methyl Isobutyl Ketone	2022/11/29	NC		%	50
			Methyl t-butyl ether (MTBE)	2022/11/29	NC		%	50
			Styrene	2022/11/29	NC		%	50
			1,1,1,2-Tetrachloroethane	2022/11/29	NC		%	50
			1,1,2,2-Tetrachloroethane	2022/11/29	NC		%	50
			Tetrachloroethylene	2022/11/29	NC		%	50
			Toluene	2022/11/29	NC		%	50
			1,1,1-Trichloroethane	2022/11/29	NC		%	50
			1,1,2-Trichloroethane	2022/11/29	NC		%	50
			Trichloroethylene	2022/11/29	NC		%	50
			Trichlorofluoromethane (FREON 11)	2022/11/29	NC		%	50
			Vinyl Chloride	2022/11/29	NC		%	50
			p+m-Xylene	2022/11/29	NC		%	50
			o-Xylene	2022/11/29	NC		%	50
			Total Xylenes	2022/11/29	NC		%	50
			F1 (C6-C10)	2022/11/29	NC		%	30
			F1 (C6-C10) - BTEX	2022/11/29	NC		%	30
8373092	MUC	RPD [UKM495-01]	Moisture	2022/11/29	1.5		%	20
8373970	MUC	RPD [UKM452-02]	Moisture	2022/11/29	8.2		%	20
8374030	MUC	RPD [UKM447-02]	Moisture	2022/11/29	7.2		%	20
8374298	MBW	RPD [UKM450-02]	Moisture	2022/11/29	4.0		%	20

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8375440	MBW	RPD [UKM455-01]	Moisture	2022/11/30	2.0		%	20
8375876	AFZ	Matrix Spike [UKM501-01]	Acid Extractable Antimony (Sb)	2022/11/30		98	%	75 - 125
			Acid Extractable Arsenic (As)	2022/11/30		102	%	75 - 125
			Acid Extractable Barium (Ba)	2022/11/30		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2022/11/30		101	%	75 - 125
			Acid Extractable Boron (B)	2022/11/30		102	%	75 - 125
			Acid Extractable Cadmium (Cd)	2022/11/30		99	%	75 - 125
			Acid Extractable Chromium (Cr)	2022/11/30		103	%	75 - 125
			Acid Extractable Cobalt (Co)	2022/11/30		101	%	75 - 125
			Acid Extractable Copper (Cu)	2022/11/30		100	%	75 - 125
			Acid Extractable Lead (Pb)	2022/11/30		98	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2022/11/30		101	%	75 - 125
			Acid Extractable Nickel (Ni)	2022/11/30		99	%	75 - 125
			Acid Extractable Selenium (Se)	2022/11/30		100	%	75 - 125
			Acid Extractable Silver (Ag)	2022/11/30		102	%	75 - 125
			Acid Extractable Thallium (Tl)	2022/11/30		99	%	75 - 125
			Acid Extractable Uranium (U)	2022/11/30		100	%	75 - 125
			Acid Extractable Vanadium (V)	2022/11/30		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2022/11/30		104	%	75 - 125
			Acid Extractable Mercury (Hg)	2022/11/30		91	%	75 - 125
8375876	AFZ	Spiked Blank	Acid Extractable Antimony (Sb)	2022/11/30		99	%	80 - 120
			Acid Extractable Arsenic (As)	2022/11/30		95	%	80 - 120
			Acid Extractable Barium (Ba)	2022/11/30		98	%	80 - 120
			Acid Extractable Beryllium (Be)	2022/11/30		96	%	80 - 120
			Acid Extractable Boron (B)	2022/11/30		96	%	80 - 120
			Acid Extractable Cadmium (Cd)	2022/11/30		96	%	80 - 120
			Acid Extractable Chromium (Cr)	2022/11/30		100	%	80 - 120
			Acid Extractable Cobalt (Co)	2022/11/30		96	%	80 - 120
			Acid Extractable Copper (Cu)	2022/11/30		100	%	80 - 120
			Acid Extractable Lead (Pb)	2022/11/30		95	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2022/11/30		97	%	80 - 120
			Acid Extractable Nickel (Ni)	2022/11/30		101	%	80 - 120
			Acid Extractable Selenium (Se)	2022/11/30		97	%	80 - 120
			Acid Extractable Silver (Ag)	2022/11/30		96	%	80 - 120
			Acid Extractable Thallium (Tl)	2022/11/30		97	%	80 - 120
			Acid Extractable Uranium (U)	2022/11/30		95	%	80 - 120
			Acid Extractable Vanadium (V)	2022/11/30		99	%	80 - 120
			Acid Extractable Zinc (Zn)	2022/11/30		97	%	80 - 120
			Acid Extractable Mercury (Hg)	2022/11/30		90	%	80 - 120
8375876	AFZ	Method Blank	Acid Extractable Antimony (Sb)	2022/11/30	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2022/11/30	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2022/11/30	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2022/11/30	<0.20		ug/g	
			Acid Extractable Boron (B)	2022/11/30	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2022/11/30	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2022/11/30	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2022/11/30	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2022/11/30	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2022/11/30	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2022/11/30	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2022/11/30	<0.50		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Selenium (Se)	2022/11/30	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2022/11/30	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2022/11/30	<0.050		ug/g	
			Acid Extractable Uranium (U)	2022/11/30	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2022/11/30	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2022/11/30	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2022/11/30	<0.050		ug/g	
8375876	AFZ	RPD [UKM501-01]	Acid Extractable Antimony (Sb)	2022/11/30	NC		%	30
			Acid Extractable Arsenic (As)	2022/11/30	8.5		%	30
			Acid Extractable Barium (Ba)	2022/11/30	1.7		%	30
			Acid Extractable Beryllium (Be)	2022/11/30	10		%	30
			Acid Extractable Boron (B)	2022/11/30	NC		%	30
			Acid Extractable Cadmium (Cd)	2022/11/30	NC		%	30
			Acid Extractable Chromium (Cr)	2022/11/30	2.4		%	30
			Acid Extractable Cobalt (Co)	2022/11/30	5.9		%	30
			Acid Extractable Copper (Cu)	2022/11/30	4.9		%	30
			Acid Extractable Lead (Pb)	2022/11/30	2.9		%	30
			Acid Extractable Molybdenum (Mo)	2022/11/30	NC		%	30
			Acid Extractable Nickel (Ni)	2022/11/30	2.5		%	30
			Acid Extractable Selenium (Se)	2022/11/30	NC		%	30
			Acid Extractable Silver (Ag)	2022/11/30	NC		%	30
			Acid Extractable Thallium (Tl)	2022/11/30	3.4		%	30
			Acid Extractable Uranium (U)	2022/11/30	4.7		%	30
			Acid Extractable Vanadium (V)	2022/11/30	2.8		%	30
			Acid Extractable Zinc (Zn)	2022/11/30	2.8		%	30
			Acid Extractable Mercury (Hg)	2022/11/30	NC		%	30
8376007	MUC	QC Standard	Sieve - #200 (<0.075mm)	2022/11/30		56	%	53 - 58
			Sieve - #200 (>0.075mm)	2022/11/30		44	%	42 - 47
8376007	MUC	RPD	Sieve - #200 (<0.075mm)	2022/11/30	0.44		%	20
			Sieve - #200 (>0.075mm)	2022/11/30	8.1		%	20
8376259	TLG	Matrix Spike	Hot Water Ext. Boron (B)	2022/11/30		98	%	75 - 125
8376259	TLG	Spiked Blank	Hot Water Ext. Boron (B)	2022/11/30		97	%	75 - 125
8376259	TLG	Method Blank	Hot Water Ext. Boron (B)	2022/11/30	<0.050		ug/g	
8376259	TLG	RPD	Hot Water Ext. Boron (B)	2022/11/30	16		%	40
8376353	MUC	RPD [UKM496-02]	Moisture	2022/11/30	9.7		%	20
8376724	IHP	Matrix Spike [UKM446-01]	Hot Water Ext. Boron (B)	2022/12/01		103	%	75 - 125
8376724	IHP	Spiked Blank	Hot Water Ext. Boron (B)	2022/12/01		95	%	75 - 125
8376724	IHP	Method Blank	Hot Water Ext. Boron (B)	2022/12/01	<0.050		ug/g	
8376724	IHP	RPD [UKM446-01]	Hot Water Ext. Boron (B)	2022/12/01	5.3		%	40
8376813	MUC	RPD	Moisture	2022/11/30	0		%	20
8377512	VIV	Matrix Spike [UKM503-01]	Acid Extractable Antimony (Sb)	2022/12/01		94	%	75 - 125
			Acid Extractable Arsenic (As)	2022/12/01		101	%	75 - 125
			Acid Extractable Barium (Ba)	2022/12/01		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2022/12/01		106	%	75 - 125
			Acid Extractable Boron (B)	2022/12/01		99	%	75 - 125
			Acid Extractable Cadmium (Cd)	2022/12/01		101	%	75 - 125
			Acid Extractable Chromium (Cr)	2022/12/01		NC	%	75 - 125
			Acid Extractable Cobalt (Co)	2022/12/01		98	%	75 - 125
			Acid Extractable Copper (Cu)	2022/12/01		102	%	75 - 125
			Acid Extractable Lead (Pb)	2022/12/01		101	%	75 - 125

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Molybdenum (Mo)	2022/12/01		100	%	75 - 125
			Acid Extractable Nickel (Ni)	2022/12/01		101	%	75 - 125
			Acid Extractable Selenium (Se)	2022/12/01		101	%	75 - 125
			Acid Extractable Silver (Ag)	2022/12/01		103	%	75 - 125
			Acid Extractable Thallium (Tl)	2022/12/01		102	%	75 - 125
			Acid Extractable Uranium (U)	2022/12/01		102	%	75 - 125
			Acid Extractable Vanadium (V)	2022/12/01		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2022/12/01		NC	%	75 - 125
8377512	VIV	Spiked Blank	Acid Extractable Antimony (Sb)	2022/12/01		105	%	80 - 120
			Acid Extractable Arsenic (As)	2022/12/01		98	%	80 - 120
			Acid Extractable Barium (Ba)	2022/12/01		104	%	80 - 120
			Acid Extractable Beryllium (Be)	2022/12/01		102	%	80 - 120
			Acid Extractable Boron (B)	2022/12/01		101	%	80 - 120
			Acid Extractable Cadmium (Cd)	2022/12/01		100	%	80 - 120
			Acid Extractable Chromium (Cr)	2022/12/01		100	%	80 - 120
			Acid Extractable Cobalt (Co)	2022/12/01		100	%	80 - 120
			Acid Extractable Copper (Cu)	2022/12/01		100	%	80 - 120
			Acid Extractable Lead (Pb)	2022/12/01		106	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2022/12/01		98	%	80 - 120
			Acid Extractable Nickel (Ni)	2022/12/01		98	%	80 - 120
			Acid Extractable Selenium (Se)	2022/12/01		100	%	80 - 120
			Acid Extractable Silver (Ag)	2022/12/01		102	%	80 - 120
			Acid Extractable Thallium (Tl)	2022/12/01		109	%	80 - 120
			Acid Extractable Uranium (U)	2022/12/01		105	%	80 - 120
			Acid Extractable Vanadium (V)	2022/12/01		97	%	80 - 120
			Acid Extractable Zinc (Zn)	2022/12/01		98	%	80 - 120
8377512	VIV	Method Blank	Acid Extractable Antimony (Sb)	2022/12/01	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2022/12/01	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2022/12/01	<0.50		ug/g	
			Acid Extractable Beryllium (Be)	2022/12/01	<0.20		ug/g	
			Acid Extractable Boron (B)	2022/12/01	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2022/12/01	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2022/12/01	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2022/12/01	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2022/12/01	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2022/12/01	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2022/12/01	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2022/12/01	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2022/12/01	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2022/12/01	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2022/12/01	<0.050		ug/g	
			Acid Extractable Uranium (U)	2022/12/01	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2022/12/01	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2022/12/01	<5.0		ug/g	
8377512	VIV	RPD [UKM503-01]	Acid Extractable Antimony (Sb)	2022/12/01	NC		%	30
			Acid Extractable Arsenic (As)	2022/12/01	7.9		%	30
			Acid Extractable Barium (Ba)	2022/12/01	4.5		%	30
			Acid Extractable Beryllium (Be)	2022/12/01	8.8		%	30
			Acid Extractable Boron (B)	2022/12/01	10		%	30
			Acid Extractable Cadmium (Cd)	2022/12/01	NC		%	30
			Acid Extractable Chromium (Cr)	2022/12/01	10		%	30
			Acid Extractable Cobalt (Co)	2022/12/01	11		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Copper (Cu)	2022/12/01	8.0		%	30
			Acid Extractable Lead (Pb)	2022/12/01	7.2		%	30
			Acid Extractable Molybdenum (Mo)	2022/12/01	8.0		%	30
			Acid Extractable Nickel (Ni)	2022/12/01	12		%	30
			Acid Extractable Selenium (Se)	2022/12/01	NC		%	30
			Acid Extractable Silver (Ag)	2022/12/01	NC		%	30
			Acid Extractable Thallium (Tl)	2022/12/01	4.0		%	30
			Acid Extractable Uranium (U)	2022/12/01	5.5		%	30
			Acid Extractable Vanadium (V)	2022/12/01	11		%	30
			Acid Extractable Zinc (Zn)	2022/12/01	9.6		%	30
8377540	AFZ	Matrix Spike [UKM446-01]	Acid Extractable Antimony (Sb)	2022/12/01		96	%	75 - 125
			Acid Extractable Arsenic (As)	2022/12/01		102	%	75 - 125
			Acid Extractable Barium (Ba)	2022/12/01		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2022/12/01		104	%	75 - 125
			Acid Extractable Boron (B)	2022/12/01		102	%	75 - 125
			Acid Extractable Cadmium (Cd)	2022/12/01		100	%	75 - 125
			Acid Extractable Chromium (Cr)	2022/12/01		NC	%	75 - 125
			Acid Extractable Cobalt (Co)	2022/12/01		100	%	75 - 125
			Acid Extractable Copper (Cu)	2022/12/01		102	%	75 - 125
			Acid Extractable Lead (Pb)	2022/12/01		99	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2022/12/01		102	%	75 - 125
			Acid Extractable Nickel (Ni)	2022/12/01		98	%	75 - 125
			Acid Extractable Selenium (Se)	2022/12/01		102	%	75 - 125
			Acid Extractable Silver (Ag)	2022/12/01		100	%	75 - 125
			Acid Extractable Thallium (Tl)	2022/12/01		100	%	75 - 125
			Acid Extractable Uranium (U)	2022/12/01		101	%	75 - 125
			Acid Extractable Vanadium (V)	2022/12/01		NC	%	75 - 125
			Acid Extractable Zinc (Zn)	2022/12/01		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2022/12/01		100	%	75 - 125
8377540	AFZ	Spiked Blank	Acid Extractable Antimony (Sb)	2022/12/01		101	%	80 - 120
			Acid Extractable Arsenic (As)	2022/12/01		101	%	80 - 120
			Acid Extractable Barium (Ba)	2022/12/01		100	%	80 - 120
			Acid Extractable Beryllium (Be)	2022/12/01		102	%	80 - 120
			Acid Extractable Boron (B)	2022/12/01		106	%	80 - 120
			Acid Extractable Cadmium (Cd)	2022/12/01		97	%	80 - 120
			Acid Extractable Chromium (Cr)	2022/12/01		101	%	80 - 120
			Acid Extractable Cobalt (Co)	2022/12/01		100	%	80 - 120
			Acid Extractable Copper (Cu)	2022/12/01		103	%	80 - 120
			Acid Extractable Lead (Pb)	2022/12/01		99	%	80 - 120
			Acid Extractable Molybdenum (Mo)	2022/12/01		102	%	80 - 120
			Acid Extractable Nickel (Ni)	2022/12/01		100	%	80 - 120
			Acid Extractable Selenium (Se)	2022/12/01		102	%	80 - 120
			Acid Extractable Silver (Ag)	2022/12/01		100	%	80 - 120
			Acid Extractable Thallium (Tl)	2022/12/01		101	%	80 - 120
			Acid Extractable Uranium (U)	2022/12/01		100	%	80 - 120
			Acid Extractable Vanadium (V)	2022/12/01		104	%	80 - 120
			Acid Extractable Zinc (Zn)	2022/12/01		98	%	80 - 120
			Acid Extractable Mercury (Hg)	2022/12/01		97	%	80 - 120
8377540	AFZ	Method Blank	Acid Extractable Antimony (Sb)	2022/12/01	<0.20		ug/g	
			Acid Extractable Arsenic (As)	2022/12/01	<1.0		ug/g	
			Acid Extractable Barium (Ba)	2022/12/01	<0.50		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Beryllium (Be)	2022/12/01	<0.20		ug/g	
			Acid Extractable Boron (B)	2022/12/01	<5.0		ug/g	
			Acid Extractable Cadmium (Cd)	2022/12/01	<0.10		ug/g	
			Acid Extractable Chromium (Cr)	2022/12/01	<1.0		ug/g	
			Acid Extractable Cobalt (Co)	2022/12/01	<0.10		ug/g	
			Acid Extractable Copper (Cu)	2022/12/01	<0.50		ug/g	
			Acid Extractable Lead (Pb)	2022/12/01	<1.0		ug/g	
			Acid Extractable Molybdenum (Mo)	2022/12/01	<0.50		ug/g	
			Acid Extractable Nickel (Ni)	2022/12/01	<0.50		ug/g	
			Acid Extractable Selenium (Se)	2022/12/01	<0.50		ug/g	
			Acid Extractable Silver (Ag)	2022/12/01	<0.20		ug/g	
			Acid Extractable Thallium (Tl)	2022/12/01	<0.050		ug/g	
			Acid Extractable Uranium (U)	2022/12/01	<0.050		ug/g	
			Acid Extractable Vanadium (V)	2022/12/01	<5.0		ug/g	
			Acid Extractable Zinc (Zn)	2022/12/01	<5.0		ug/g	
			Acid Extractable Mercury (Hg)	2022/12/01	<0.050		ug/g	
8377540	AFZ	RPD [UKM446-01]	Acid Extractable Antimony (Sb)	2022/12/01	NC		%	30
			Acid Extractable Arsenic (As)	2022/12/01	10		%	30
			Acid Extractable Barium (Ba)	2022/12/01	1.6		%	30
			Acid Extractable Beryllium (Be)	2022/12/01	9.5		%	30
			Acid Extractable Boron (B)	2022/12/01	9.8		%	30
			Acid Extractable Cadmium (Cd)	2022/12/01	NC		%	30
			Acid Extractable Chromium (Cr)	2022/12/01	3.0		%	30
			Acid Extractable Cobalt (Co)	2022/12/01	0.55		%	30
			Acid Extractable Copper (Cu)	2022/12/01	1.6		%	30
			Acid Extractable Lead (Pb)	2022/12/01	3.8		%	30
			Acid Extractable Molybdenum (Mo)	2022/12/01	9.7		%	30
			Acid Extractable Nickel (Ni)	2022/12/01	0.41		%	30
			Acid Extractable Selenium (Se)	2022/12/01	NC		%	30
			Acid Extractable Silver (Ag)	2022/12/01	NC		%	30
			Acid Extractable Thallium (Tl)	2022/12/01	9.1		%	30
			Acid Extractable Uranium (U)	2022/12/01	0.037		%	30
			Acid Extractable Vanadium (V)	2022/12/01	3.1		%	30
			Acid Extractable Zinc (Zn)	2022/12/01	0.66		%	30
			Acid Extractable Mercury (Hg)	2022/12/01	NC		%	30
8377756	SUR	Matrix Spike [UKM496-01]	Chromium (VI)	2022/12/03		80	%	70 - 130
8377756	SUR	Spiked Blank	Chromium (VI)	2022/12/03		93	%	80 - 120
8377756	SUR	Method Blank	Chromium (VI)	2022/12/03	<0.18		ug/g	
8377756	SUR	RPD [UKM496-01]	Chromium (VI)	2022/12/03	NC		%	35
8377761	SB5	Matrix Spike	Chromium (VI)	2022/12/03		73	%	70 - 130
8377761	SB5	Spiked Blank	Chromium (VI)	2022/12/03		94	%	80 - 120
8377761	SB5	Method Blank	Chromium (VI)	2022/12/03	<0.18		ug/g	
8377761	SB5	RPD	Chromium (VI)	2022/12/03	NC		%	35
8377816	TAK	Spiked Blank	Available (CaCl2) pH	2022/12/01		100	%	97 - 103
8377816	TAK	RPD	Available (CaCl2) pH	2022/12/01	0.58		%	N/A
8377820	TAK	Spiked Blank	Available (CaCl2) pH	2022/12/01		100	%	97 - 103
8377820	TAK	RPD	Available (CaCl2) pH	2022/12/01	0.12		%	N/A
8377899	IHP	Matrix Spike	Hot Water Ext. Boron (B)	2022/12/01		99	%	75 - 125
8377899	IHP	Spiked Blank	Hot Water Ext. Boron (B)	2022/12/01		100	%	75 - 125
8377899	IHP	Method Blank	Hot Water Ext. Boron (B)	2022/12/01	<0.050		ug/g	
8377899	IHP	RPD	Hot Water Ext. Boron (B)	2022/12/01	2.3		%	40

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8378104	TAK	Spiked Blank	Available (CaCl2) pH	2022/12/01		100	%	97 - 103
8378104	TAK	RPD	Available (CaCl2) pH	2022/12/01	0.32		%	N/A
8380239	JYO	Matrix Spike [UKM449-02]	D10-Anthracene	2022/12/03		93	%	50 - 130
			D14-Terphenyl (FS)	2022/12/03		107	%	50 - 130
			D8-Acenaphthylene	2022/12/03		80	%	50 - 130
			Benzo(e)pyrene	2022/12/03		87	%	50 - 130
			Acenaphthene	2022/12/03		86	%	50 - 130
			Acenaphthylene	2022/12/03		82	%	50 - 130
			Anthracene	2022/12/03		89	%	50 - 130
			Benzo(a)anthracene	2022/12/03		92	%	50 - 130
			Benzo(a)pyrene	2022/12/03		84	%	50 - 130
			Benzo(b/j)fluoranthene	2022/12/03		85	%	50 - 130
			Benzo(g,h,i)perylene	2022/12/03		91	%	50 - 130
			Benzo(k)fluoranthene	2022/12/03		82	%	50 - 130
			Chrysene	2022/12/03		86	%	50 - 130
			Dibenzo(a,h)anthracene	2022/12/03		90	%	50 - 130
			Fluoranthene	2022/12/03		98	%	50 - 130
			Fluorene	2022/12/03		89	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/12/03		91	%	50 - 130
			1-Methylnaphthalene	2022/12/03		90	%	50 - 130
			2-Methylnaphthalene	2022/12/03		81	%	50 - 130
			Naphthalene	2022/12/03		72	%	50 - 130
			Phenanthrene	2022/12/03		84	%	50 - 130
			Pyrene	2022/12/03		99	%	50 - 130
			Biphenyl	2022/12/03		88	%	50 - 130
			Perylene	2022/12/03		96	%	50 - 130
8380239	JYO	Spiked Blank	D10-Anthracene	2022/12/03		102	%	50 - 130
			D14-Terphenyl (FS)	2022/12/03		115	%	50 - 130
			D8-Acenaphthylene	2022/12/03		94	%	50 - 130
			Benzo(e)pyrene	2022/12/03		95	%	50 - 130
			Acenaphthene	2022/12/03		89	%	50 - 130
			Acenaphthylene	2022/12/03		85	%	50 - 130
			Anthracene	2022/12/03		96	%	50 - 130
			Benzo(a)anthracene	2022/12/03		96	%	50 - 130
			Benzo(a)pyrene	2022/12/03		91	%	50 - 130
			Benzo(b/j)fluoranthene	2022/12/03		93	%	50 - 130
			Benzo(g,h,i)perylene	2022/12/03		101	%	50 - 130
			Benzo(k)fluoranthene	2022/12/03		87	%	50 - 130
			Chrysene	2022/12/03		92	%	50 - 130
			Dibenzo(a,h)anthracene	2022/12/03		94	%	50 - 130
			Fluoranthene	2022/12/03		104	%	50 - 130
			Fluorene	2022/12/03		93	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/12/03		99	%	50 - 130
			1-Methylnaphthalene	2022/12/03		98	%	50 - 130
			2-Methylnaphthalene	2022/12/03		89	%	50 - 130
			Naphthalene	2022/12/03		85	%	50 - 130
			Phenanthrene	2022/12/03		89	%	50 - 130
			Pyrene	2022/12/03		105	%	50 - 130
			Biphenyl	2022/12/03		92	%	50 - 130
			Perylene	2022/12/03		100	%	50 - 130
8380239	JYO	Method Blank	D10-Anthracene	2022/12/03		103	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			D14-Terphenyl (FS)	2022/12/03		113	%	50 - 130
			D8-Acenaphthylene	2022/12/03		90	%	50 - 130
			Benzo(e)pyrene	2022/12/03	<0.0050		ug/g	
			Acenaphthene	2022/12/03	<0.0050		ug/g	
			Acenaphthylene	2022/12/03	<0.0050		ug/g	
			Anthracene	2022/12/03	<0.0050		ug/g	
			Benzo(a)anthracene	2022/12/03	<0.0050		ug/g	
			Benzo(a)pyrene	2022/12/03	<0.0050		ug/g	
			Benzo(b/j)fluoranthene	2022/12/03	<0.0050		ug/g	
			Benzo(g,h,i)perylene	2022/12/03	<0.0050		ug/g	
			Benzo(k)fluoranthene	2022/12/03	<0.0050		ug/g	
			Chrysene	2022/12/03	<0.0050		ug/g	
			Dibenzo(a,h)anthracene	2022/12/03	<0.0050		ug/g	
			Fluoranthene	2022/12/03	<0.0050		ug/g	
			Fluorene	2022/12/03	<0.0050		ug/g	
			Indeno(1,2,3-cd)pyrene	2022/12/03	<0.0050		ug/g	
			1-Methylnaphthalene	2022/12/03	<0.0050		ug/g	
			2-Methylnaphthalene	2022/12/03	<0.0050		ug/g	
			Naphthalene	2022/12/03	<0.0050		ug/g	
			Phenanthrene	2022/12/03	<0.0050		ug/g	
			Pyrene	2022/12/03	<0.0050		ug/g	
			Biphenyl	2022/12/03	<0.0050		ug/g	
			Perylene	2022/12/03	<0.0050		ug/g	
8380239	JYO	RPD [UKM449-02]	Benzo(e)pyrene	2022/12/03	NC		%	40
			Acenaphthene	2022/12/03	NC		%	40
			Acenaphthylene	2022/12/03	NC		%	40
			Anthracene	2022/12/03	NC		%	40
			Benzo(a)anthracene	2022/12/03	NC		%	40
			Benzo(a)pyrene	2022/12/03	NC		%	40
			Benzo(b/j)fluoranthene	2022/12/03	NC		%	40
			Benzo(g,h,i)perylene	2022/12/03	NC		%	40
			Benzo(k)fluoranthene	2022/12/03	NC		%	40
			Chrysene	2022/12/03	NC		%	40
			Dibenzo(a,h)anthracene	2022/12/03	NC		%	40
			Fluoranthene	2022/12/03	NC		%	40
			Fluorene	2022/12/03	NC		%	40
			Indeno(1,2,3-cd)pyrene	2022/12/03	NC		%	40
			1-Methylnaphthalene	2022/12/03	NC		%	40
			2-Methylnaphthalene	2022/12/03	NC		%	40
			Naphthalene	2022/12/03	NC		%	40
			Phenanthrene	2022/12/03	NC		%	40
			Pyrene	2022/12/03	NC		%	40
			Biphenyl	2022/12/03	NC		%	40
			Perylene	2022/12/03	45		%	50
8383006	AS2	Matrix Spike [UKM496-02]	o-Terphenyl	2022/12/05		88	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/05		88	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/12/05		90	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/12/05		92	%	60 - 130
8383006	AS2	Spiked Blank	o-Terphenyl	2022/12/05		92	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/05		92	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2022/12/05		93	%	80 - 120

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F4 (C34-C50 Hydrocarbons)	2022/12/05		94	%	80 - 120
8383006	AS2	Method Blank	o-Terphenyl	2022/12/05		89	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/05	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2022/12/05	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2022/12/05	<50		ug/g	
8383006	AS2	RPD [UKM496-02]	F2 (C10-C16 Hydrocarbons)	2022/12/05	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/12/05	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/12/05	NC		%	30
8383687	AS2	Matrix Spike	o-Terphenyl	2022/12/05		97	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/05		103	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/12/05		106	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/12/05		108	%	60 - 130
8383687	AS2	Spiked Blank	o-Terphenyl	2022/12/05		100	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/05		106	%	80 - 120
			F3 (C16-C34 Hydrocarbons)	2022/12/05		109	%	80 - 120
			F4 (C34-C50 Hydrocarbons)	2022/12/05		110	%	80 - 120
8383687	AS2	Method Blank	o-Terphenyl	2022/12/05		72	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/05	<10		ug/g	
			F3 (C16-C34 Hydrocarbons)	2022/12/05	<50		ug/g	
			F4 (C34-C50 Hydrocarbons)	2022/12/05	<50		ug/g	
8383687	AS2	RPD	F2 (C10-C16 Hydrocarbons)	2022/12/05	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/12/05	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/12/05	NC		%	30
8385241	DR1	Matrix Spike	4-Bromofluorobenzene	2022/12/06		99	%	60 - 140
			D10-o-Xylene	2022/12/06		96	%	60 - 130
			D4-1,2-Dichloroethane	2022/12/06		101	%	60 - 140
			D8-Toluene	2022/12/06		102	%	60 - 140
			Acetone (2-Propanone)	2022/12/06		105	%	60 - 140
			Benzene	2022/12/06		88	%	60 - 140
			Bromodichloromethane	2022/12/06		99	%	60 - 140
			Bromoform	2022/12/06		103	%	60 - 140
			Bromomethane	2022/12/06		93	%	60 - 140
			Carbon Tetrachloride	2022/12/06		100	%	60 - 140
			Chlorobenzene	2022/12/06		93	%	60 - 140
			Chloroform	2022/12/06		97	%	60 - 140
			Dibromochloromethane	2022/12/06		131	%	60 - 140
			1,2-Dichlorobenzene	2022/12/06		90	%	60 - 140
			1,3-Dichlorobenzene	2022/12/06		95	%	60 - 140
			1,4-Dichlorobenzene	2022/12/06		107	%	60 - 140
			Dichlorodifluoromethane (FREON 12)	2022/12/06		77	%	60 - 140
			1,1-Dichloroethane	2022/12/06		91	%	60 - 140
			1,2-Dichloroethane	2022/12/06		91	%	60 - 140
			1,1-Dichloroethylene	2022/12/06		94	%	60 - 140
			cis-1,2-Dichloroethylene	2022/12/06		97	%	60 - 140
			trans-1,2-Dichloroethylene	2022/12/06		98	%	60 - 140
			1,2-Dichloropropane	2022/12/06		92	%	60 - 140
			cis-1,3-Dichloropropene	2022/12/06		88	%	60 - 140
			trans-1,3-Dichloropropene	2022/12/06		97	%	60 - 140
			Ethylbenzene	2022/12/06		84	%	60 - 140
			Ethylene Dibromide	2022/12/06		92	%	60 - 140
			Hexane	2022/12/06		94	%	60 - 140
			Methylene Chloride(Dichloromethane)	2022/12/06		98	%	60 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methyl Ethyl Ketone (2-Butanone)	2022/12/06		101	%	60 - 140
			Methyl Isobutyl Ketone	2022/12/06		90	%	60 - 140
			Methyl t-butyl ether (MTBE)	2022/12/06		80	%	60 - 140
			Styrene	2022/12/06		94	%	60 - 140
			1,1,1,2-Tetrachloroethane	2022/12/06		98	%	60 - 140
			1,1,2,2-Tetrachloroethane	2022/12/06		102	%	60 - 140
			Tetrachloroethylene	2022/12/06		93	%	60 - 140
			Toluene	2022/12/06		92	%	60 - 140
			1,1,1-Trichloroethane	2022/12/06		96	%	60 - 140
			1,1,2-Trichloroethane	2022/12/06		99	%	60 - 140
			Trichloroethylene	2022/12/06		100	%	60 - 140
			Trichlorofluoromethane (FREON 11)	2022/12/06		95	%	60 - 140
			Vinyl Chloride	2022/12/06		81	%	60 - 140
			p+m-Xylene	2022/12/06		86	%	60 - 140
			o-Xylene	2022/12/06		85	%	60 - 140
			F1 (C6-C10)	2022/12/06		95	%	60 - 140
8385241	DR1	Spiked Blank	4-Bromofluorobenzene	2022/12/06		100	%	60 - 140
			D10-o-Xylene	2022/12/06		98	%	60 - 130
			D4-1,2-Dichloroethane	2022/12/06		104	%	60 - 140
			D8-Toluene	2022/12/06		101	%	60 - 140
			Acetone (2-Propanone)	2022/12/06		108	%	60 - 140
			Benzene	2022/12/06		87	%	60 - 130
			Bromodichloromethane	2022/12/06		101	%	60 - 130
			Bromoform	2022/12/06		110	%	60 - 130
			Bromomethane	2022/12/06		91	%	60 - 140
			Carbon Tetrachloride	2022/12/06		96	%	60 - 130
			Chlorobenzene	2022/12/06		92	%	60 - 130
			Chloroform	2022/12/06		96	%	60 - 130
			Dibromochloromethane	2022/12/06		104	%	60 - 130
			1,2-Dichlorobenzene	2022/12/06		90	%	60 - 130
			1,3-Dichlorobenzene	2022/12/06		92	%	60 - 130
			1,4-Dichlorobenzene	2022/12/06		105	%	60 - 130
			Dichlorodifluoromethane (FREON 12)	2022/12/06		75	%	60 - 140
			1,1-Dichloroethane	2022/12/06		90	%	60 - 130
			1,2-Dichloroethane	2022/12/06		93	%	60 - 130
			1,1-Dichloroethylene	2022/12/06		91	%	60 - 130
			cis-1,2-Dichloroethylene	2022/12/06		97	%	60 - 130
			trans-1,2-Dichloroethylene	2022/12/06		95	%	60 - 130
			1,2-Dichloropropane	2022/12/06		92	%	60 - 130
			cis-1,3-Dichloropropene	2022/12/06		87	%	60 - 130
			trans-1,3-Dichloropropene	2022/12/06		95	%	60 - 130
			Ethylbenzene	2022/12/06		82	%	60 - 130
			Ethylene Dibromide	2022/12/06		95	%	60 - 130
			Hexane	2022/12/06		89	%	60 - 130
			Methylene Chloride(Dichloromethane)	2022/12/06		98	%	60 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/12/06		108	%	60 - 140
			Methyl Isobutyl Ketone	2022/12/06		97	%	60 - 130
			Methyl t-butyl ether (MTBE)	2022/12/06		79	%	60 - 130
			Styrene	2022/12/06		94	%	60 - 130
			1,1,1,2-Tetrachloroethane	2022/12/06		98	%	60 - 130
			1,1,2,2-Tetrachloroethane	2022/12/06		109	%	60 - 130
			Tetrachloroethylene	2022/12/06		90	%	60 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Toluene	2022/12/06		90	%	60 - 130
			1,1,1-Trichloroethane	2022/12/06		93	%	60 - 130
			1,1,2-Trichloroethane	2022/12/06		102	%	60 - 130
			Trichloroethylene	2022/12/06		97	%	60 - 130
			Trichlorofluoromethane (FREON 11)	2022/12/06		91	%	60 - 130
			Vinyl Chloride	2022/12/06		79	%	60 - 130
			p+m-Xylene	2022/12/06		83	%	60 - 130
			o-Xylene	2022/12/06		84	%	60 - 130
			F1 (C6-C10)	2022/12/06		95	%	80 - 120
8385241	DR1	Method Blank	4-Bromofluorobenzene	2022/12/06		91	%	60 - 140
			D10-o-Xylene	2022/12/06		89	%	60 - 130
			D4-1,2-Dichloroethane	2022/12/06		101	%	60 - 140
			D8-Toluene	2022/12/06		96	%	60 - 140
			Acetone (2-Propanone)	2022/12/06	<0.49		ug/g	
			Benzene	2022/12/06	<0.0060		ug/g	
			Bromodichloromethane	2022/12/06	<0.040		ug/g	
			Bromoform	2022/12/06	<0.040		ug/g	
			Bromomethane	2022/12/06	<0.040		ug/g	
			Carbon Tetrachloride	2022/12/06	<0.040		ug/g	
			Chlorobenzene	2022/12/06	<0.040		ug/g	
			Chloroform	2022/12/06	<0.040		ug/g	
			Dibromochloromethane	2022/12/06	<0.040		ug/g	
			1,2-Dichlorobenzene	2022/12/06	<0.040		ug/g	
			1,3-Dichlorobenzene	2022/12/06	<0.040		ug/g	
			1,4-Dichlorobenzene	2022/12/06	<0.040		ug/g	
			Dichlorodifluoromethane (FREON 12)	2022/12/06	<0.040		ug/g	
			1,1-Dichloroethane	2022/12/06	<0.040		ug/g	
			1,2-Dichloroethane	2022/12/06	<0.049		ug/g	
			1,1-Dichloroethylene	2022/12/06	<0.040		ug/g	
			cis-1,2-Dichloroethylene	2022/12/06	<0.040		ug/g	
			trans-1,2-Dichloroethylene	2022/12/06	<0.040		ug/g	
			1,2-Dichloropropane	2022/12/06	<0.040		ug/g	
			cis-1,3-Dichloropropene	2022/12/06	<0.030		ug/g	
			trans-1,3-Dichloropropene	2022/12/06	<0.040		ug/g	
			Ethylbenzene	2022/12/06	<0.010		ug/g	
			Ethylene Dibromide	2022/12/06	<0.040		ug/g	
			Hexane	2022/12/06	<0.040		ug/g	
			Methylene Chloride(Dichloromethane)	2022/12/06	<0.049		ug/g	
			Methyl Ethyl Ketone (2-Butanone)	2022/12/06	<0.40		ug/g	
			Methyl Isobutyl Ketone	2022/12/06	<0.40		ug/g	
			Methyl t-butyl ether (MTBE)	2022/12/06	<0.040		ug/g	
			Styrene	2022/12/06	<0.040		ug/g	
			1,1,1,2-Tetrachloroethane	2022/12/06	<0.040		ug/g	
			1,1,2,2-Tetrachloroethane	2022/12/06	<0.040		ug/g	
			Tetrachloroethylene	2022/12/06	<0.040		ug/g	
			Toluene	2022/12/06	<0.020		ug/g	
			1,1,1-Trichloroethane	2022/12/06	<0.040		ug/g	
			1,1,2-Trichloroethane	2022/12/06	<0.040		ug/g	
			Trichloroethylene	2022/12/06	<0.010		ug/g	
			Trichlorofluoromethane (FREON 11)	2022/12/06	<0.040		ug/g	
			Vinyl Chloride	2022/12/06	<0.019		ug/g	
			p+m-Xylene	2022/12/06	<0.020		ug/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			o-Xylene	2022/12/06	<0.020		ug/g	
			Total Xylenes	2022/12/06	<0.020		ug/g	
			F1 (C6-C10)	2022/12/06	<10		ug/g	
			F1 (C6-C10) - BTEX	2022/12/06	<10		ug/g	
8385241	DR1	RPD	Acetone (2-Propanone)	2022/12/06	NC		%	50
			Benzene	2022/12/06	NC		%	50
			Bromodichloromethane	2022/12/06	NC		%	50
			Bromoform	2022/12/06	NC		%	50
			Bromomethane	2022/12/06	NC		%	50
			Carbon Tetrachloride	2022/12/06	NC		%	50
			Chlorobenzene	2022/12/06	NC		%	50
			Chloroform	2022/12/06	NC		%	50
			Dibromochloromethane	2022/12/06	NC		%	50
			1,2-Dichlorobenzene	2022/12/06	NC		%	50
			1,3-Dichlorobenzene	2022/12/06	NC		%	50
			1,4-Dichlorobenzene	2022/12/06	NC		%	50
			Dichlorodifluoromethane (FREON 12)	2022/12/06	NC		%	50
			1,1-Dichloroethane	2022/12/06	NC		%	50
			1,2-Dichloroethane	2022/12/06	NC		%	50
			1,1-Dichloroethylene	2022/12/06	NC		%	50
			cis-1,2-Dichloroethylene	2022/12/06	NC		%	50
			trans-1,2-Dichloroethylene	2022/12/06	NC		%	50
			1,2-Dichloropropane	2022/12/06	NC		%	50
			cis-1,3-Dichloropropene	2022/12/06	NC		%	50
			trans-1,3-Dichloropropene	2022/12/06	NC		%	50
			Ethylbenzene	2022/12/06	NC		%	50
			Ethylene Dibromide	2022/12/06	NC		%	50
			Hexane	2022/12/06	NC		%	50
			Methylene Chloride(Dichloromethane)	2022/12/06	NC		%	50
			Methyl Ethyl Ketone (2-Butanone)	2022/12/06	NC		%	50
			Methyl Isobutyl Ketone	2022/12/06	NC		%	50
			Methyl t-butyl ether (MTBE)	2022/12/06	NC		%	50
			Styrene	2022/12/06	NC		%	50
			1,1,1,2-Tetrachloroethane	2022/12/06	NC		%	50
			1,1,2,2-Tetrachloroethane	2022/12/06	NC		%	50
			Tetrachloroethylene	2022/12/06	NC		%	50
			Toluene	2022/12/06	NC		%	50
			1,1,1-Trichloroethane	2022/12/06	NC		%	50
			1,1,2-Trichloroethane	2022/12/06	NC		%	50
			Trichloroethylene	2022/12/06	NC		%	50
			Trichlorofluoromethane (FREON 11)	2022/12/06	NC		%	50
			Vinyl Chloride	2022/12/06	NC		%	50
			p+m-Xylene	2022/12/06	NC		%	50
			o-Xylene	2022/12/06	NC		%	50
			Total Xylenes	2022/12/06	NC		%	50
			F1 (C6-C10)	2022/12/06	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			F1 (C6-C10) - BTEX	2022/12/06	NC		%	30

N/A = Not Applicable

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

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

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

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

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

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

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

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

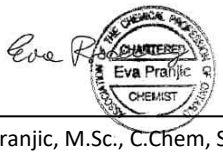
Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior Scientific Specialist



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

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.

Bureau Veritas
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel:(902) 420-0203 Toll-free:800-563-6266 Fax:(902) 420-8612 www.bvna.com

RECEIVED IN OTTAWA

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#74250 SLR Consulting (Canada) Ltd	Company Name:	#32753 SLR Consulting (Canada) Ltd	Quotation #:	C21779	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Pierre D'Angelo	P.O. #:	TOR1441		907894
Address:	200 - 1620 West 8th Ave	Address:	501-55 University Ave.	Project:	209.013940		
	Vancouver BC V6J 1V4		Toronto ON M5J 2H7	Project Name:	3850 Cambrin Rd, Ottawa, Ontario	COC #:	Project Manager:
Tel:	(604) 738-2500 Fax: (604) 738-2508	Tel:	(416) 320-1737 Fax:	Site #:		C#907894-03-01	Ronklin Gracian
Email:	accountspayableca@slrconsulting.com;adang@slrcons	Email:	pdangelo@slrconsulting.com	Sampled By:	RM		

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

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

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

Special Instructions

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

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

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

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

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	CCME VOC F1-F4	O. Reg 153 Metals & Inorganics Pkg (Cr6+ + Hg)	CCME PAHs (Low Level) in Soil	Terrapure TCLP Minimum Package	Particle Size Distribution with Graph (1-7 Sieve)	HWS Boron	pH				# of Bottles	Comments
1		BH22-06-SS2	22/11/24	7:35	soil		✓	✓	✓			✓	✓			Hold	3	
2		BH22-06-SS3	22/11/24	7:40	soil		✓	✓	✓				✓				3	
3		BH22-06-SS5		7:48												H	3	
4		BH22-01-SS2		9:40			✓	✓	✓			✓	✓				3	
5		BH22-01-SS3		9:56			✓	✓	✓				✓				3	
6		BH22-01-SS4		10:00												H	~~3~~ 3	
7		DUP-003		-			✓	✓	✓			✓	✓				3	
8		BH22-12-SS1		11:32			✓	✓	✓			✓	✓				3	
9		BH22-12-SS2		11:40			✓	✓	✓			✓	✓			H	~~3~~ 3	please submit
10		BH22-12-SS4		11:56				✓			✓	✓	✓				2	

25-Nov-22 08:30
Ronklin Gracian
C2Y7796
RJM ENV-1763

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rhea Hoda	22/11/24	19:35	Angelica Santiago ABS	2022/11/25	0830	
			PRABHJOT	22/11/26	08:34	

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: 4.3.3 ice pak | Custody Seal Present ✓ Intact | Yes | No

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

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

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

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

White: Bureau Veritas Yellow: Client

4/4/6 6/7/6

Bureau Veritas
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel:(902) 420-0203 Toll-free:800-563-6266 Fax:(902) 420-8612 www.bvna.com

RECEIVED IN OTTAWA

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#74250 SLR Consulting (Canada) Ltd	Company Name:	#32753 SLR Consulting (Canada) Ltd	Quotation #:	C21779	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Pierre D'Angelo	P.O. #:	TOR1441		907894
Address:	200 - 1620 West 8th Ave Vancouver BC V6J 1V4	Address:	501-55 University Ave. Toronto ON M5J 2H7	Project:	209.013940-0000	COC #:	Project Manager:
Tel:	(604) 738-2500 Fax: (604) 738-2508	Tel:	(416) 320-1737 Fax:	Project Name:	3850 Cambrian, Ottawa ON K1J 0	C#907894-04-01	Ronklin Gracian
Email:	accountspayableca@slrconsulting.com;adang@slrcons	Email:	pdangelo@slrconsulting.com	Site #:			
				Sampled By:	DH		

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

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

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

Special Instructions

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

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

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

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

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	CCME VOC F1-F4	O.Reg 153 Metals & Inorganics Pkg +Cr6+ HWS	CCME PAHs (Low Level) in Soil	Temperature TCLP Minimum Package	Particle Size Distribution with Grain +/- 75 um	HWS Boron	MH			Hold	# of Bottles	Comments
1		DH22-12-SS3	22/11/24	11:45	Soil		✓		✓							2	2	
2		BH22-05-SS1		13:16			✓	✓	✓			✓	✓				3	
3		DH22-05-SS2		13:22			✓		✓								2	
4		BH22-05-SS3		13:35				✓					✓				2	
5		~~BH22-05-SS4~~		~~14:05~~												~~H~~	~~3~~	
6		BH22-09R-SS1		15:30			✓	✓	✓			✓	✓				3	
7		DUP-004		-			✓	✓	✓			✓	✓				3	
8		BH22-09-SS3		14:58			✓	✓	✓				✓				3	
9		BH22-09-SS4		15:04							✓						1	
10		BH22-09-SS5		15:10												H	3	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rebecca Hicks	22/11/24	19:35	See p.1 AST See p.1			

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

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

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

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

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

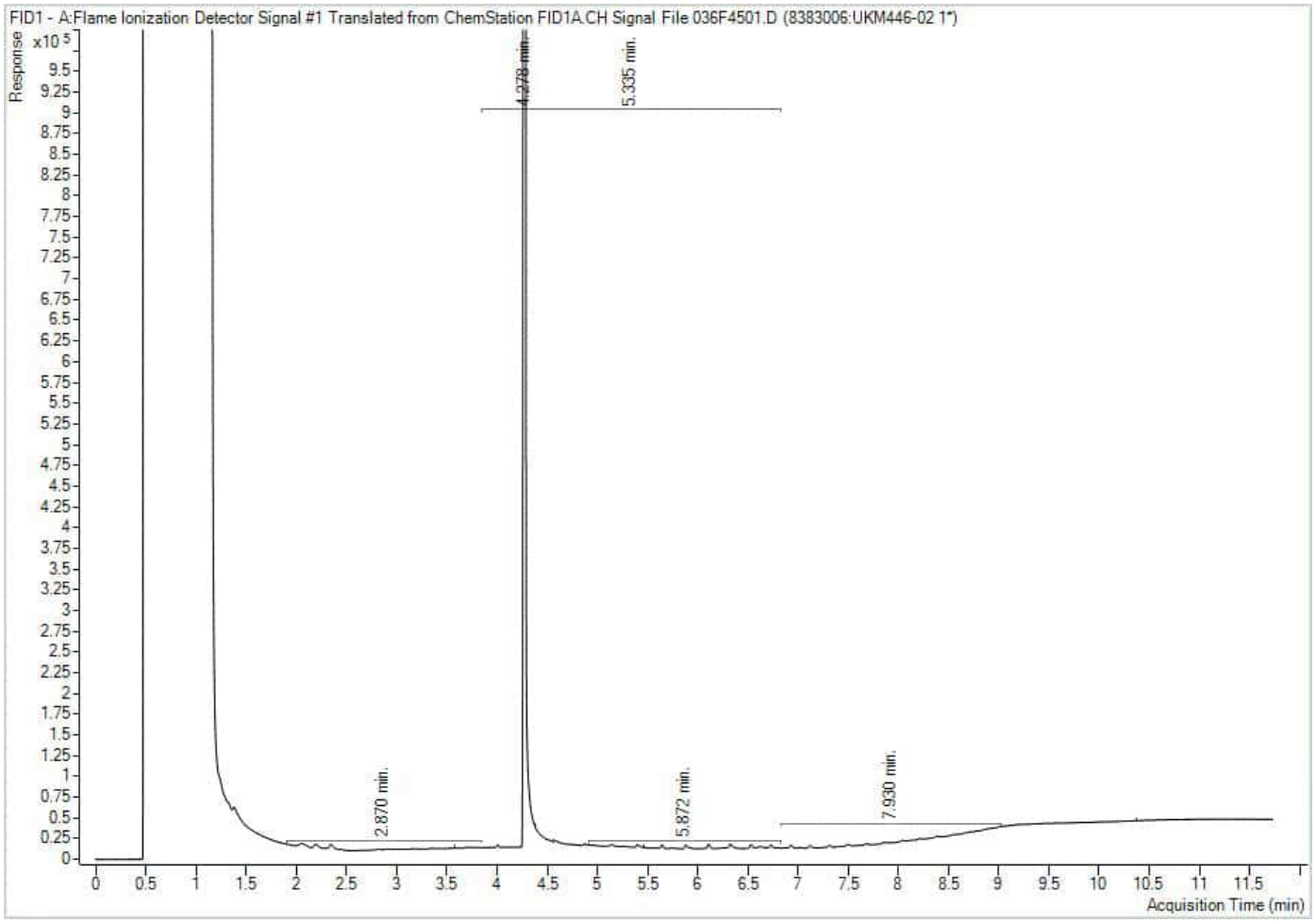
White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM446

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-06-SS2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

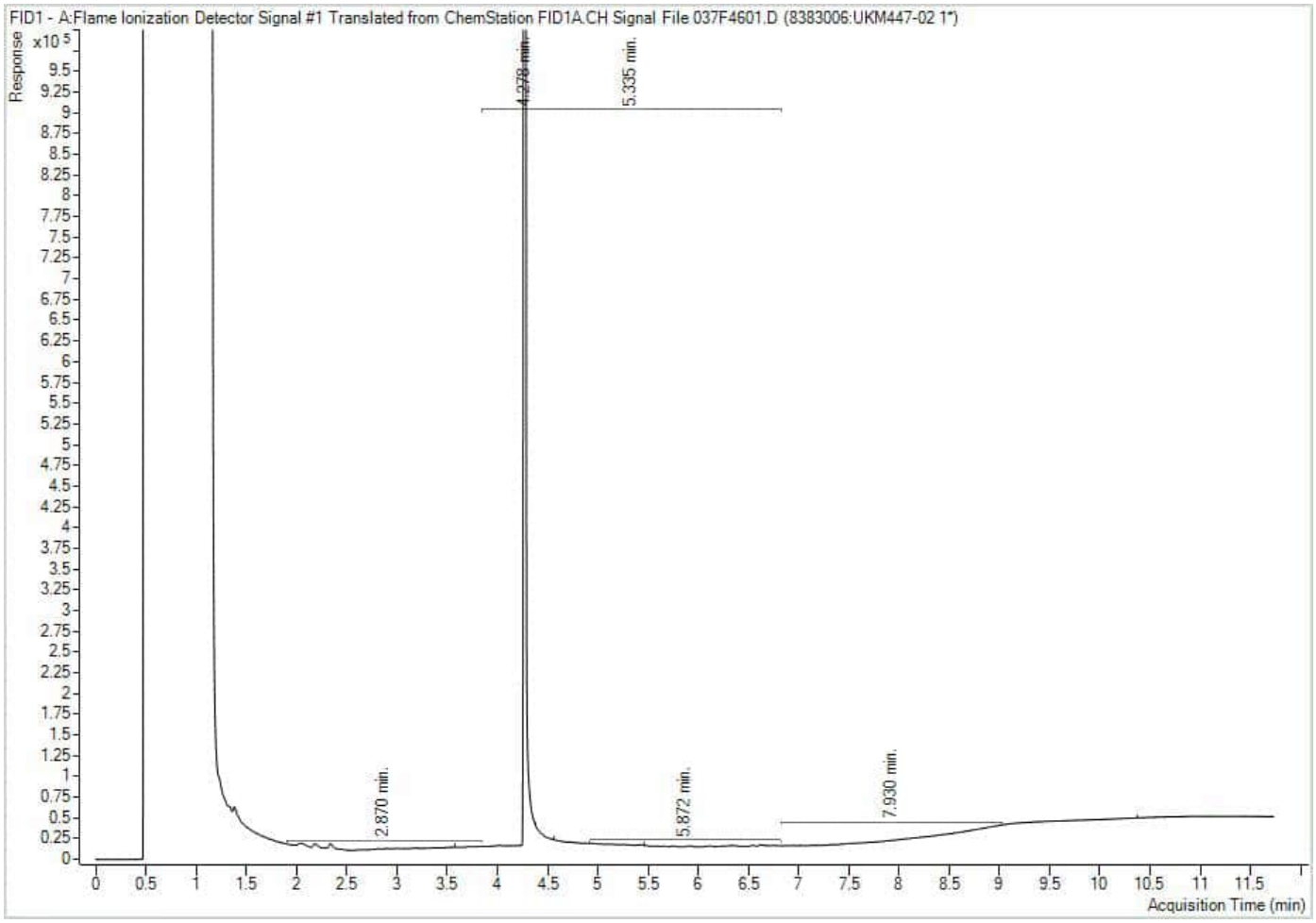


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM447

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-06-SS3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

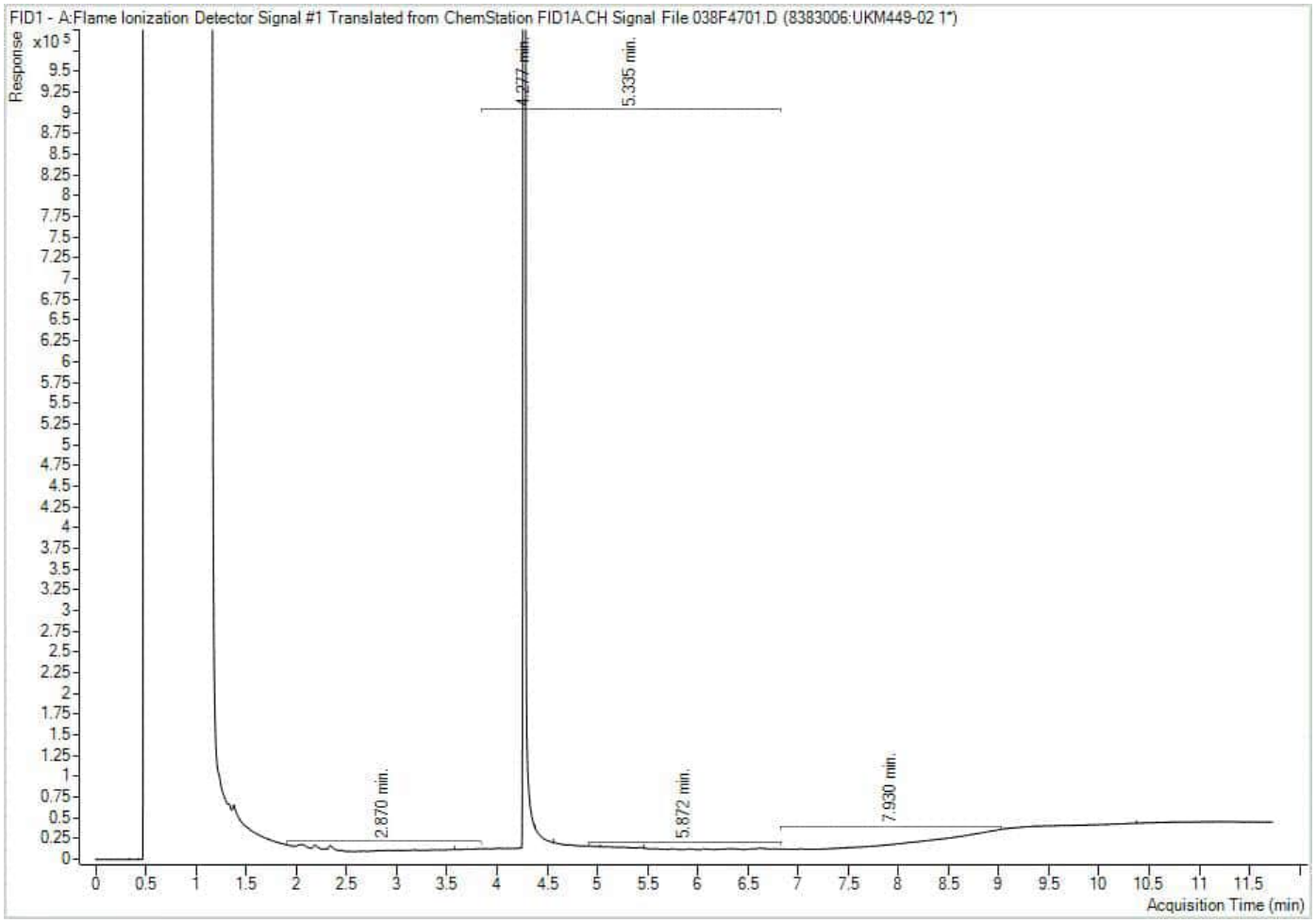


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM449

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-01-SS2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

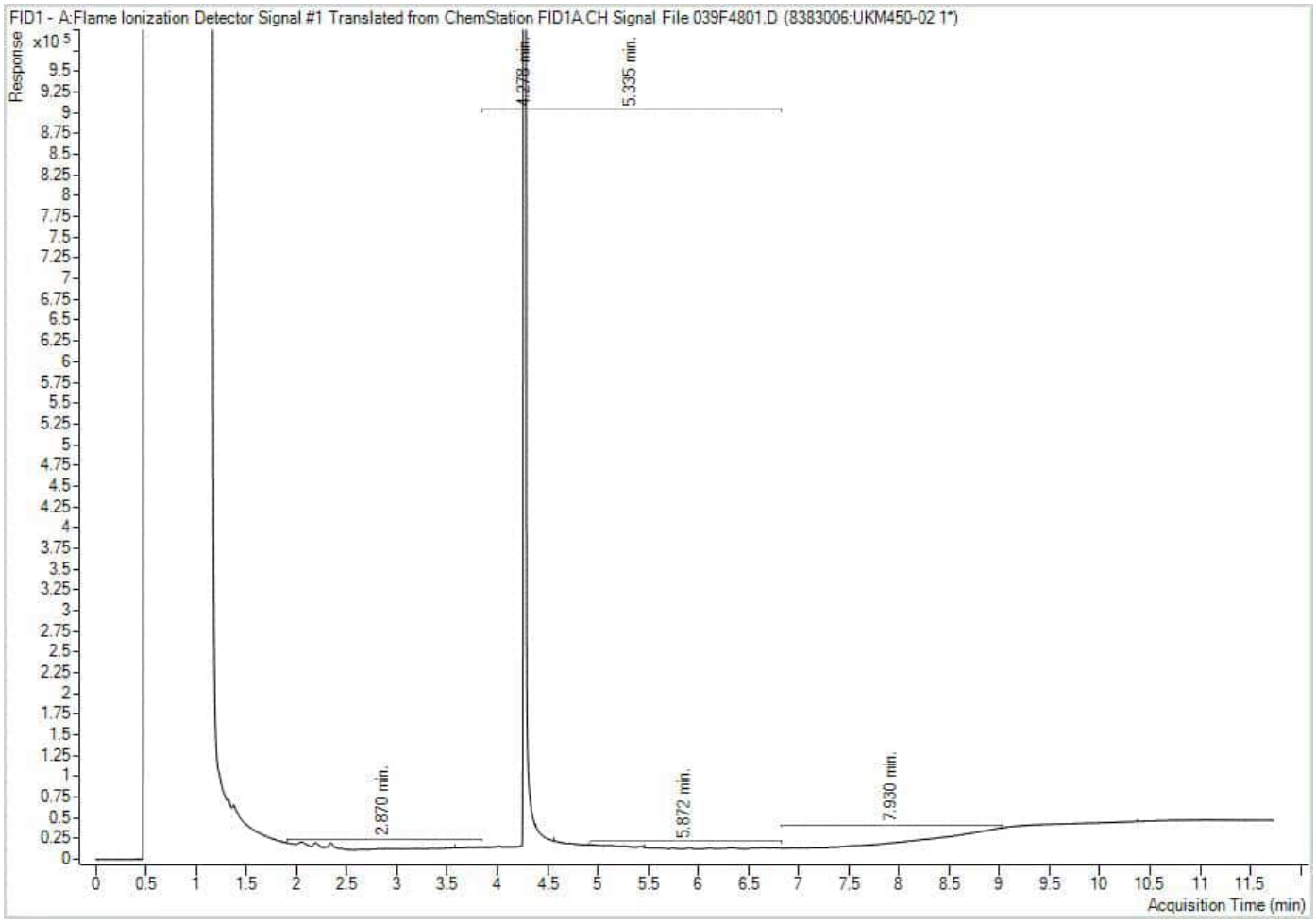


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM450

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-01-SS3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

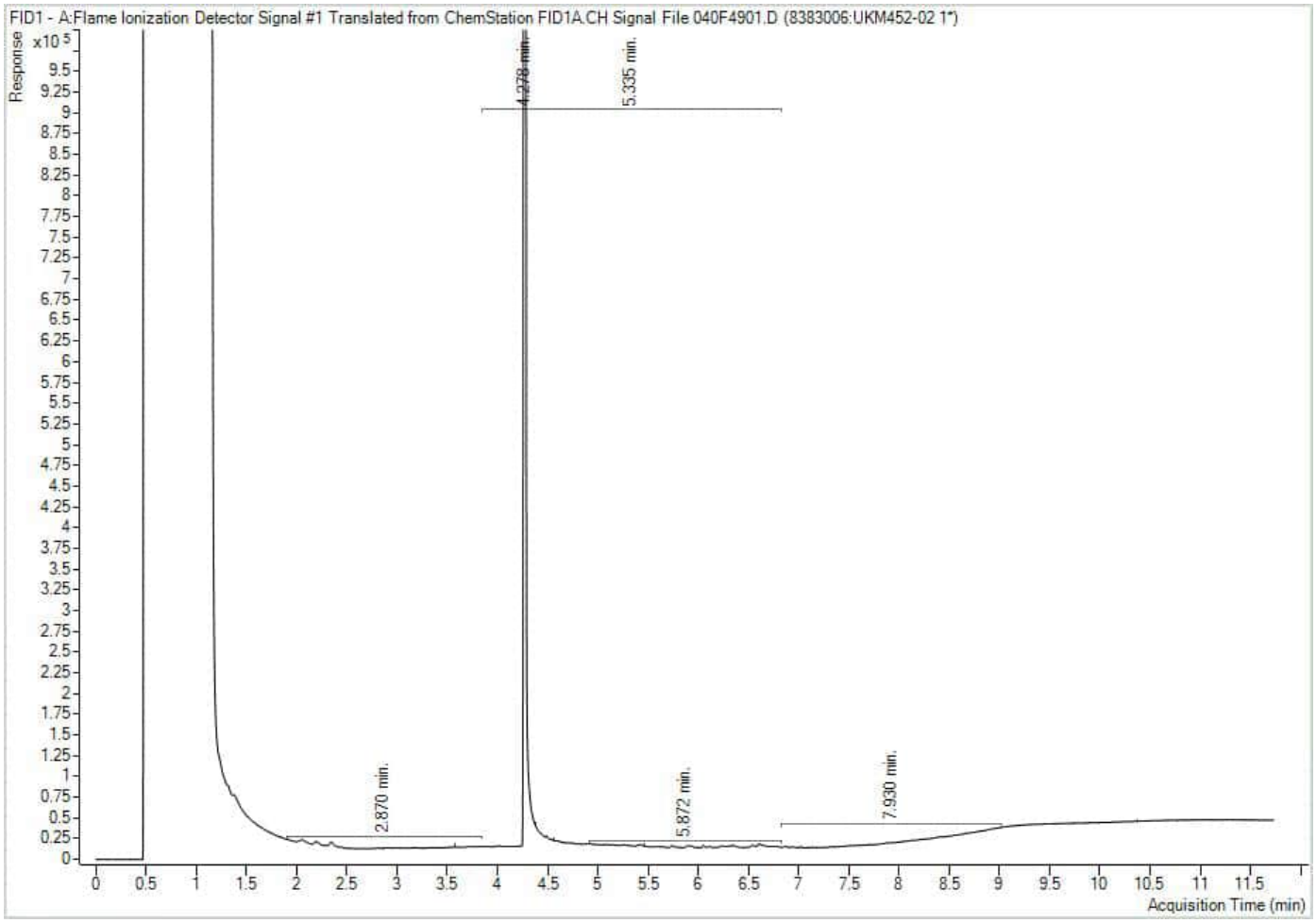


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM452

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: DUP-003

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

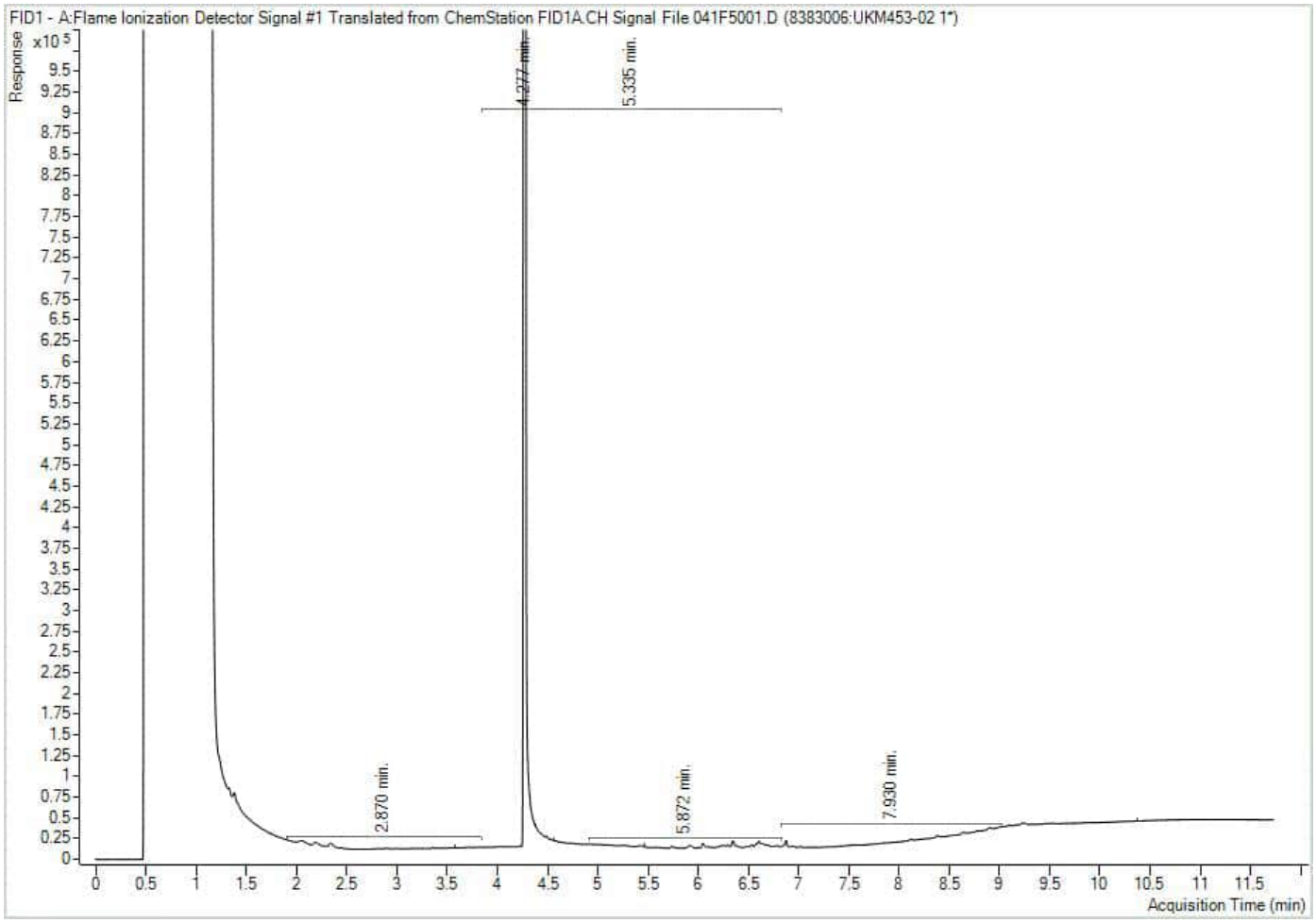


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM453

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-12-SS1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

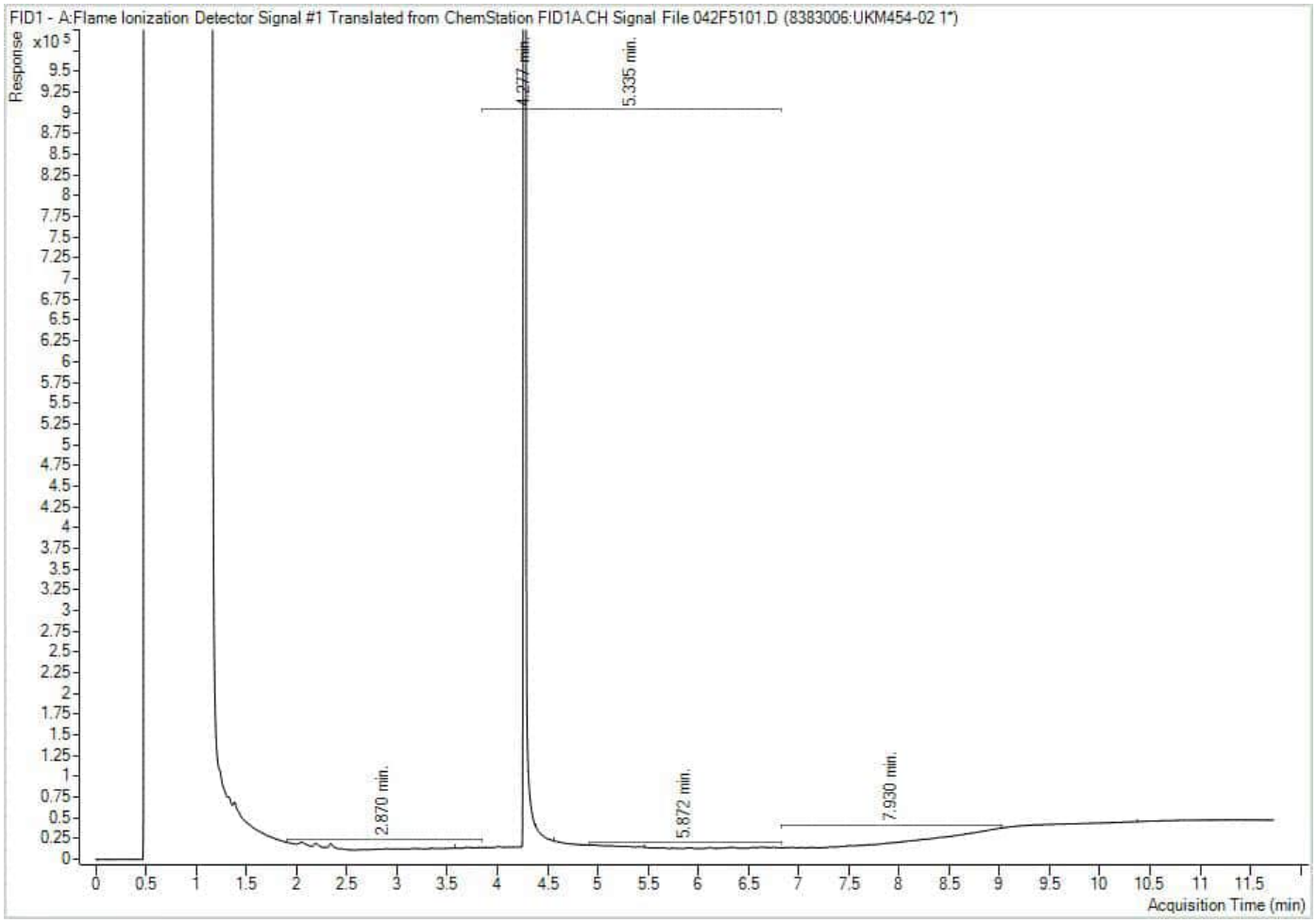


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM454

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-12-SS2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

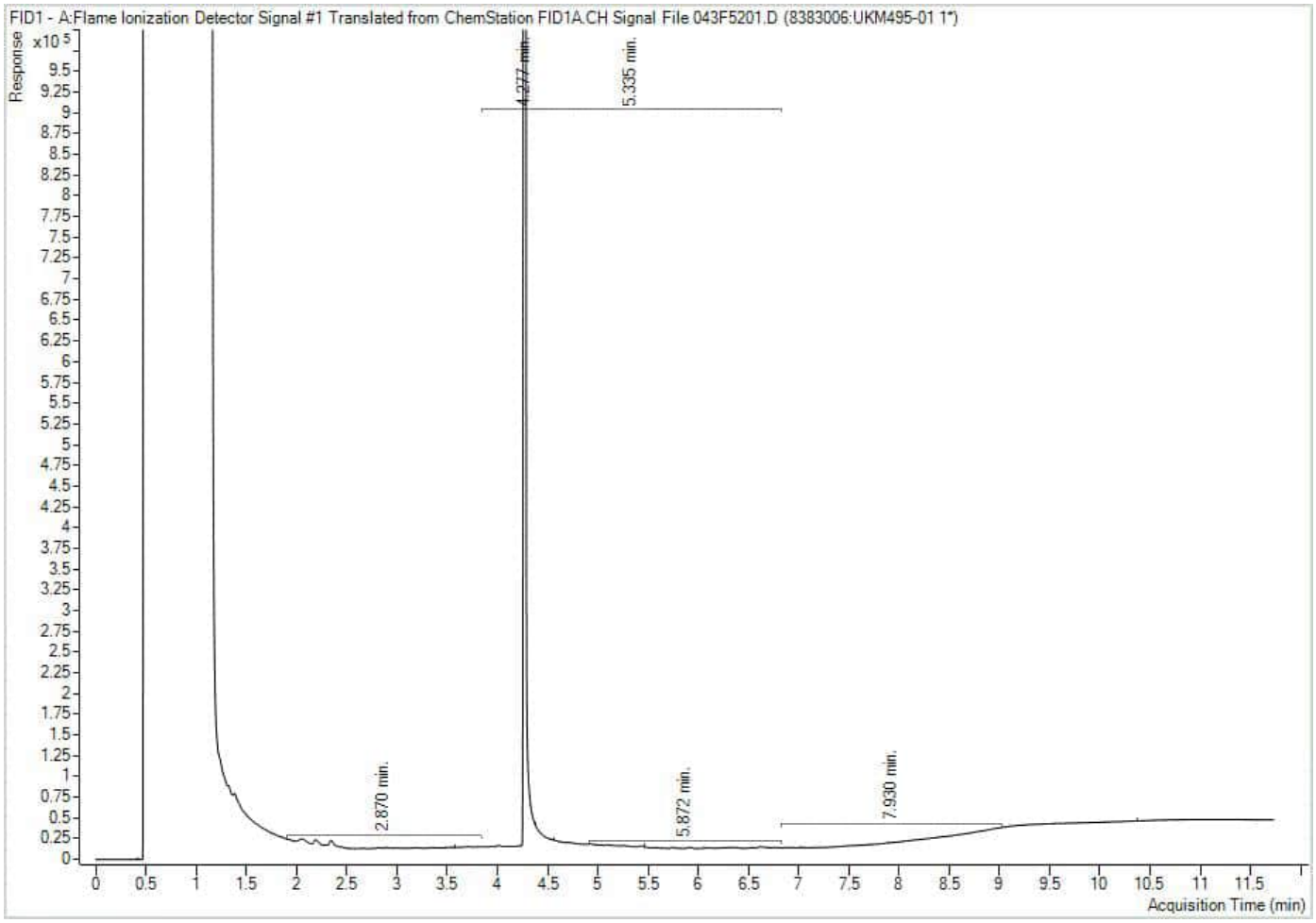


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM495

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-12-SS3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

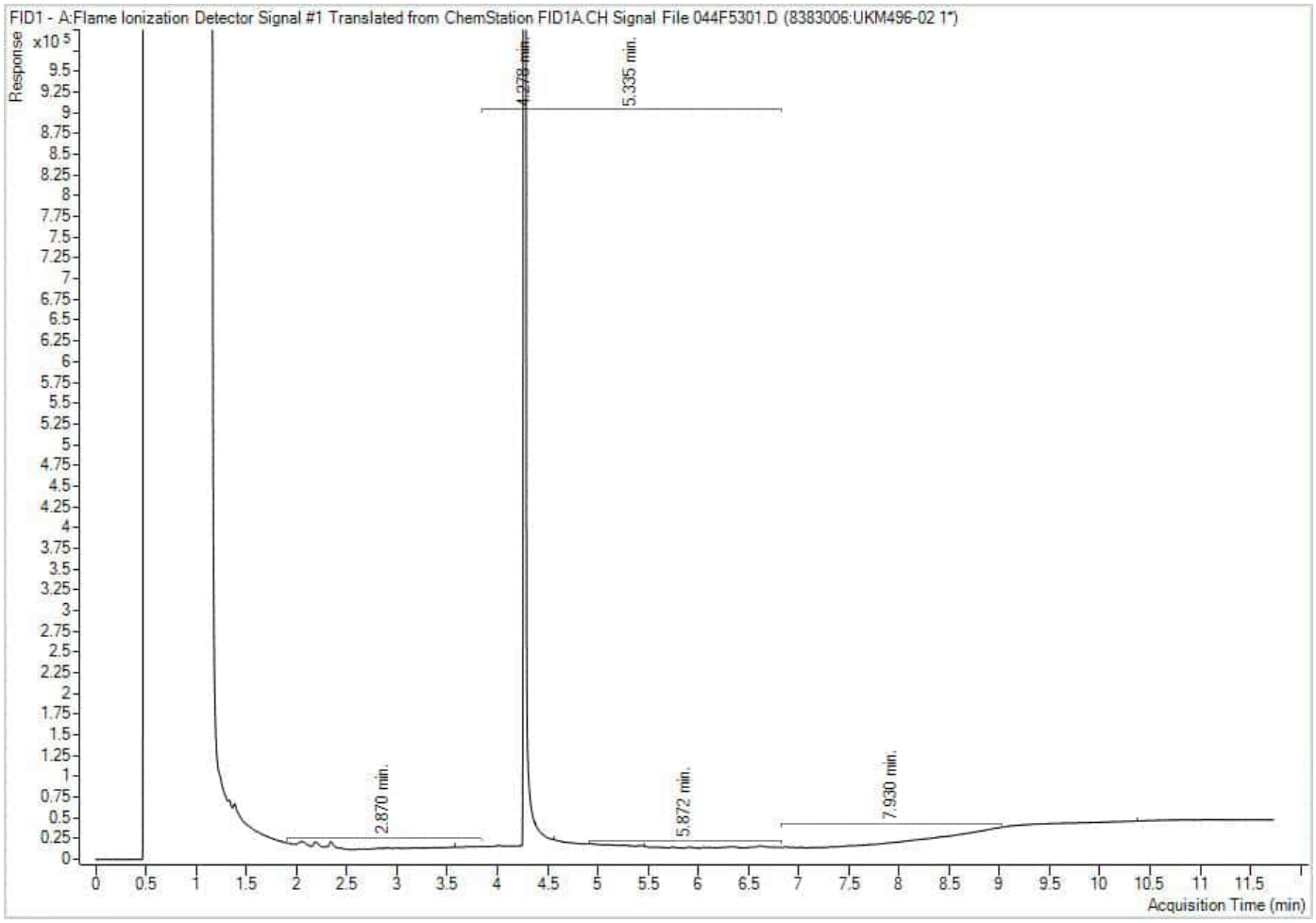


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM496

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-05-SS1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

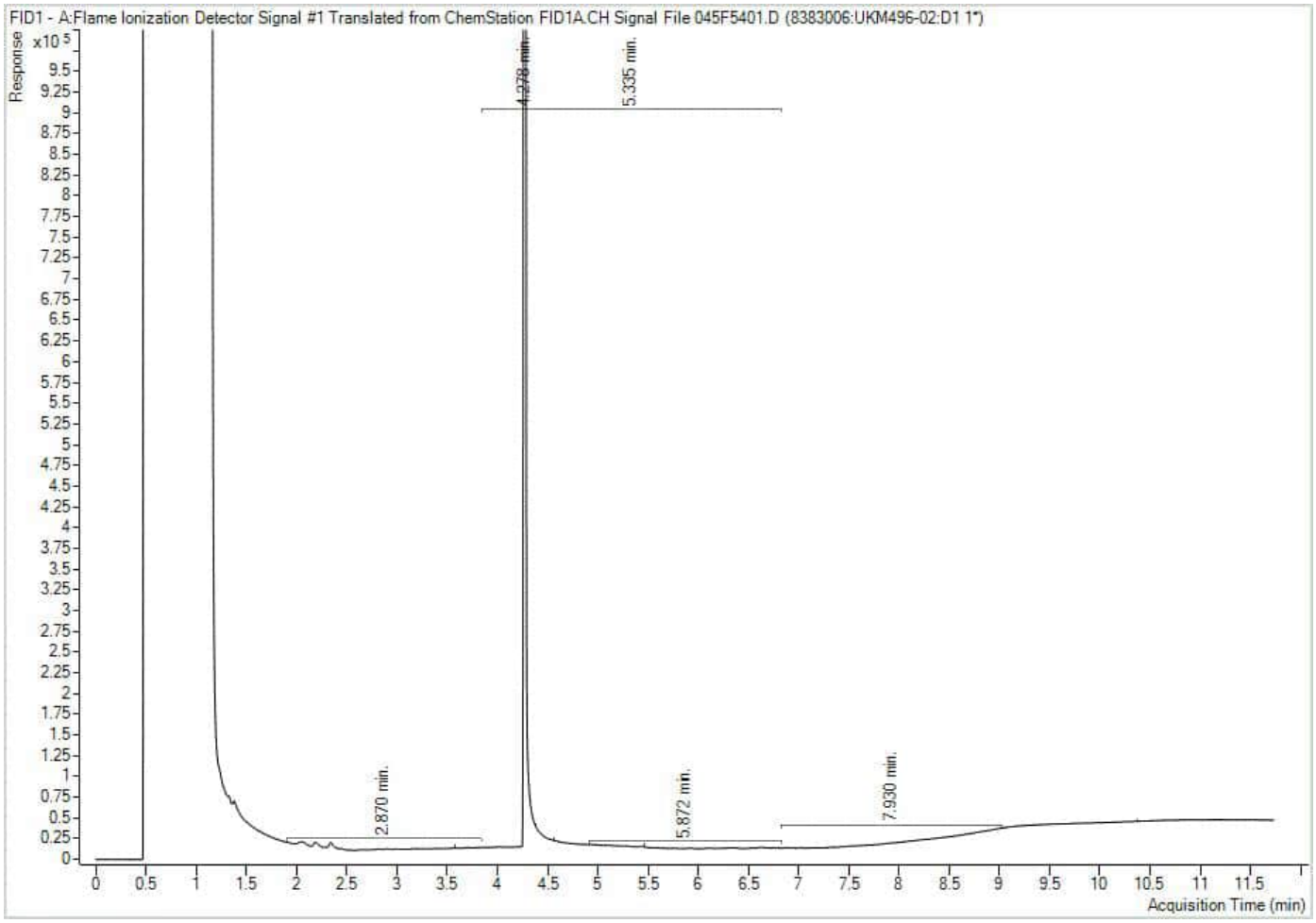


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM496 Lab-Dup

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-05-SS1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

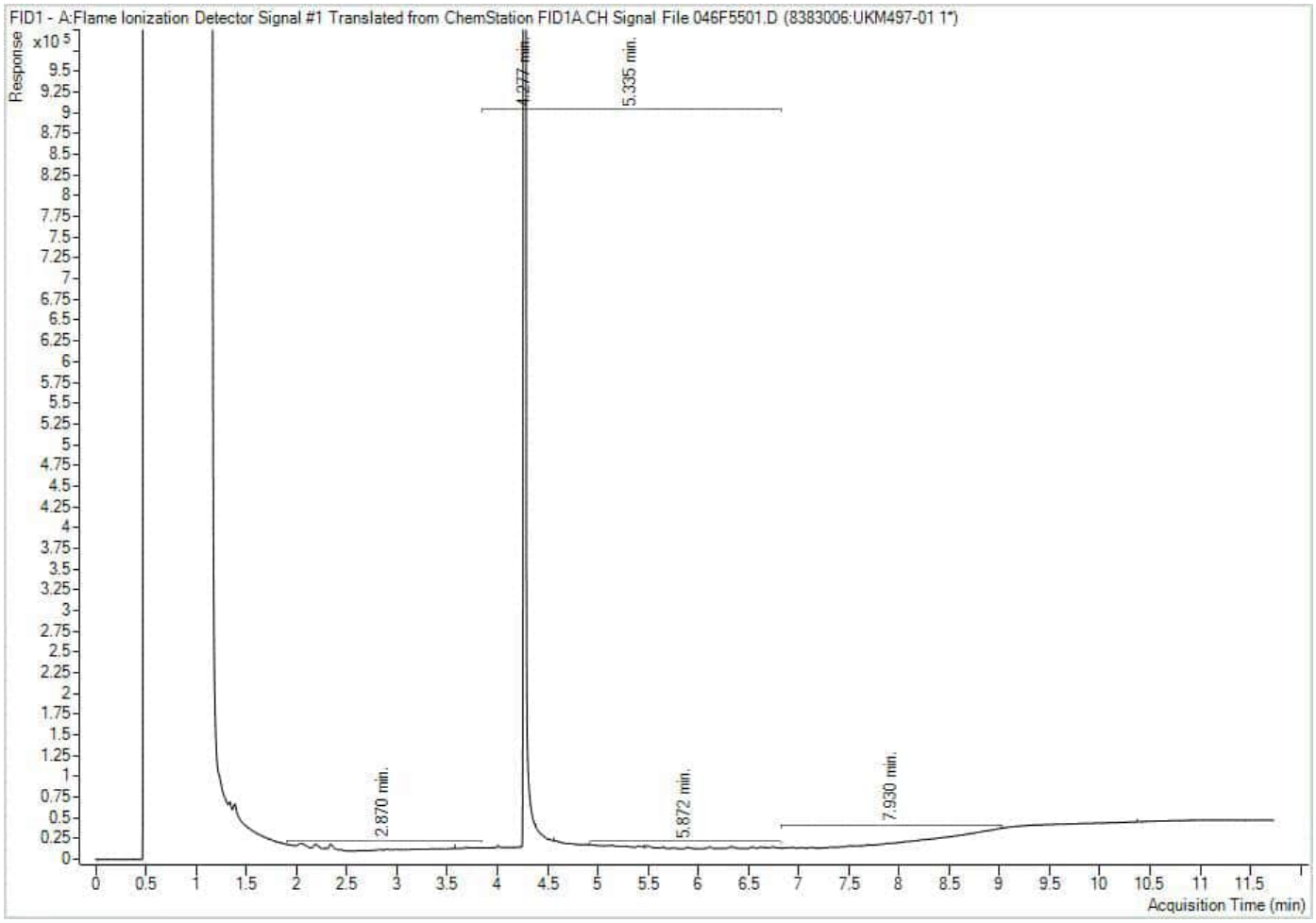


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM497

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-05-SS2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

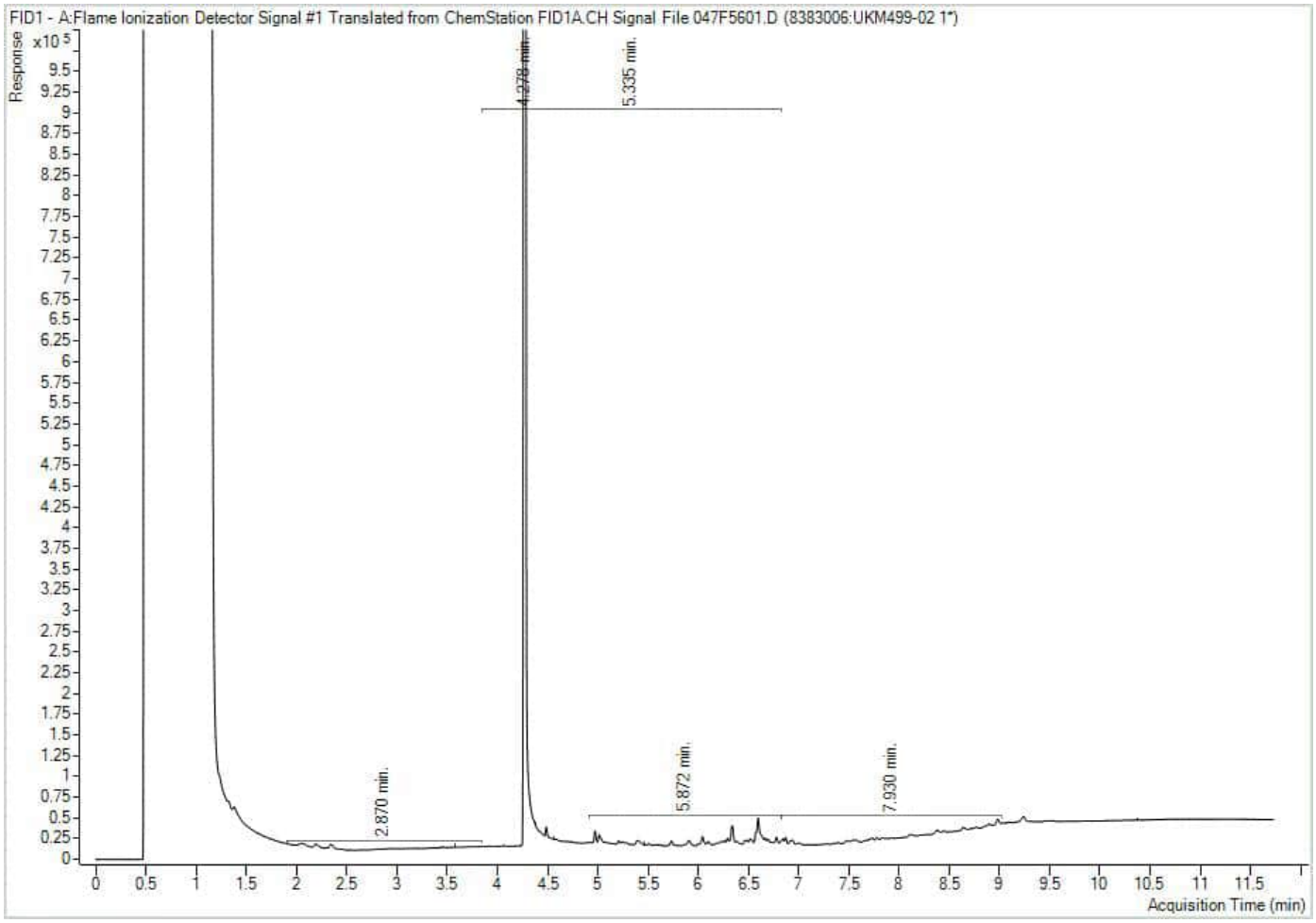


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM499

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-09-SS1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

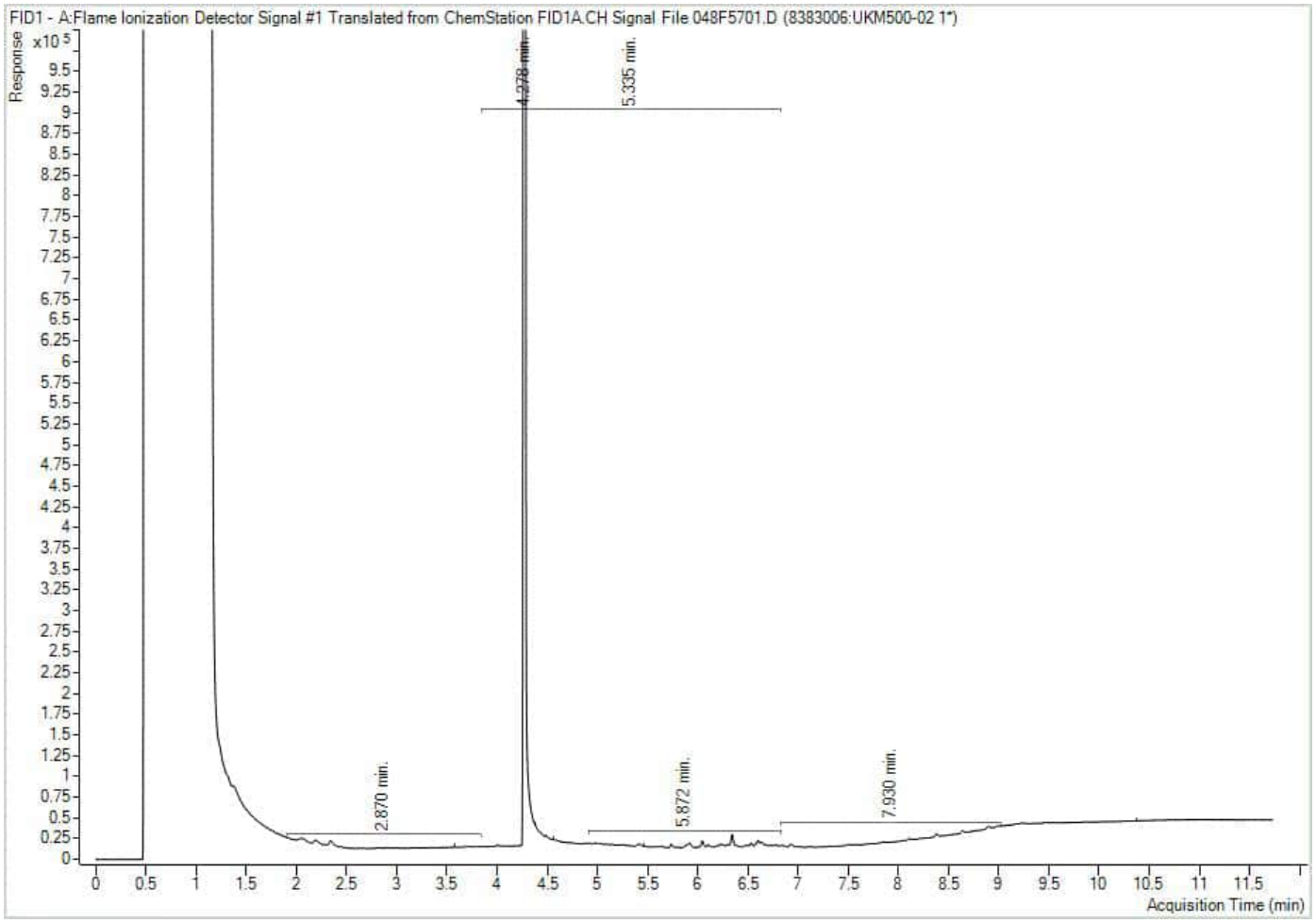


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM500

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: DUP-004

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

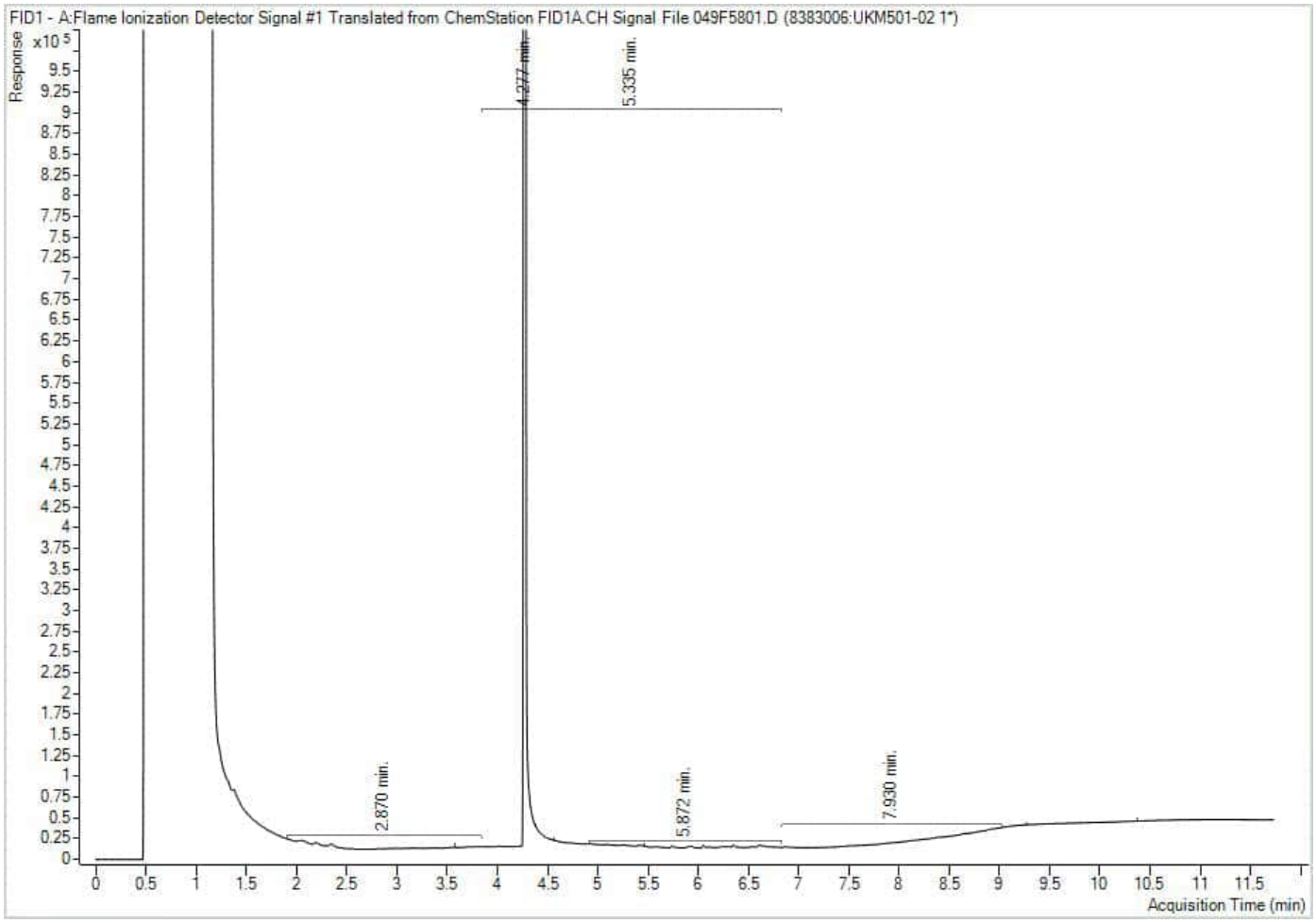


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM501

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-09-SS3

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

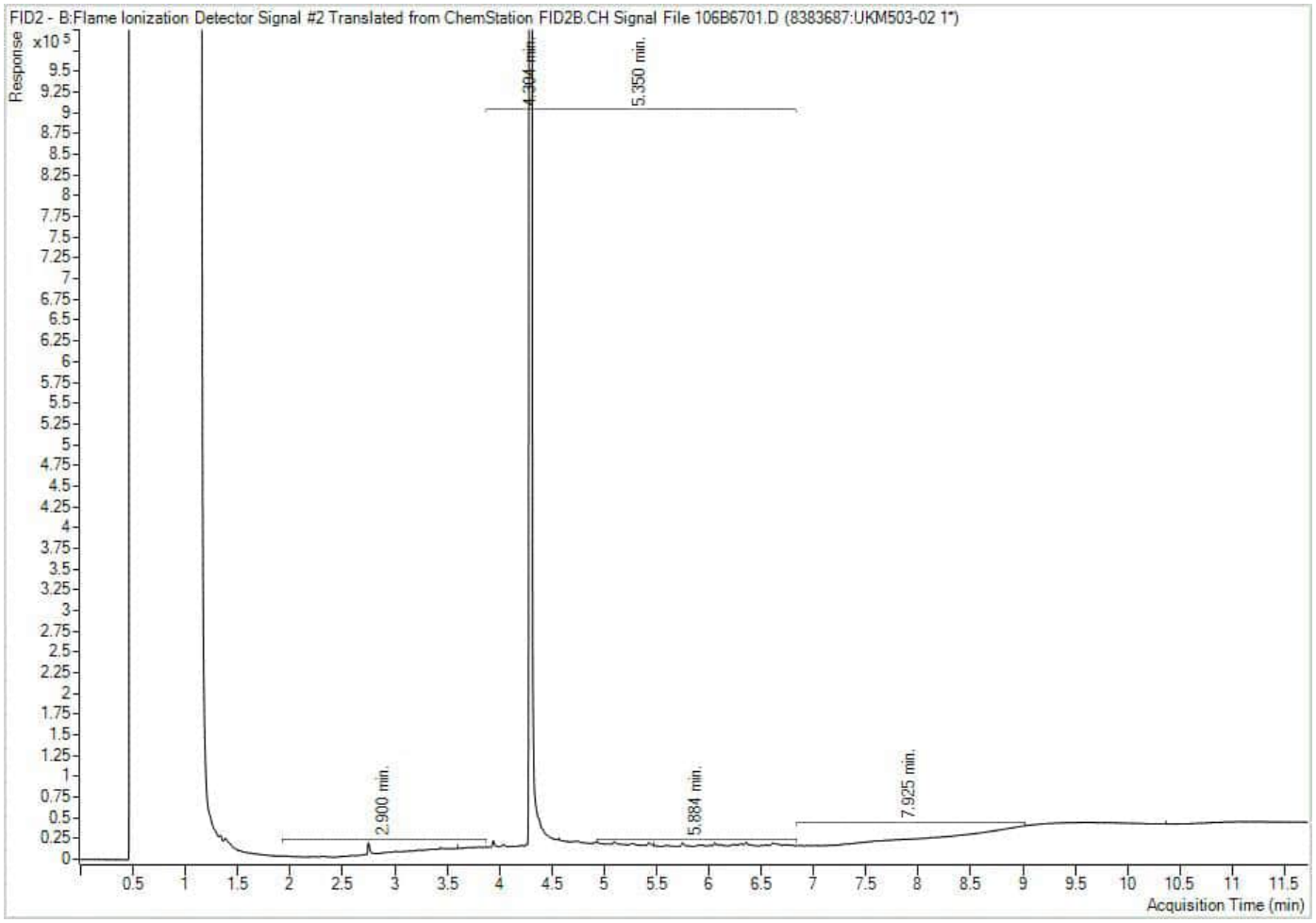


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Y7796
Report Date: 2022/12/09
Bureau Veritas Sample: UKM503

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-09-SS5

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Your P.O. #: TOR1441
Your Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your C.O.C. #: 909721-01-01

Attention: Pierre D'Angelo

SLR Consulting (Canada) Ltd
501-55 University Ave.
Toronto, ON
Canada M5J 2H7

Report Date: 2022/12/14
Report #: R7430600
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2Z8515
Received: 2022/12/06, 16:30

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	5	N/A	2022/12/14	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	5	N/A	2022/12/12		EPA 8260C m
1,3-Dichloropropene Sum (1)	1	N/A	2022/12/09		EPA 8260C m
Chromium (VI) in Water (1)	5	N/A	2022/12/12	CAM SOP-00436	EPA 7199 m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	5	2022/12/09	2022/12/12	CAM SOP-00316	CCME PHC-CWS m
Mercury (1)	5	2022/12/09	2022/12/09	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS (1)	5	N/A	2022/12/09	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM) (1)	5	2022/12/09	2022/12/10	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs (1)	5	N/A	2022/12/09	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Water (1)	1	N/A	2022/12/08	CAM SOP-00228	EPA 8260C m

Remarks:

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

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

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

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

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the

Your P.O. #: TOR1441
Your Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your C.O.C. #: 909721-01-01

Attention: Pierre D'Angelo

SLR Consulting (Canada) Ltd
501-55 University Ave.
Toronto, ON
Canada M5J 2H7

Report Date: 2022/12/14
Report #: R7430600
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2Z8515
Received: 2022/12/06, 16:30

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

Encryption Key

Bureau Veritas
14 Dec 2022 17:18:04

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

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		UMX458				UMX458			
Sampling Date		2022/12/06 09:05				2022/12/06 09:05			
COC Number		909721-01-01				909721-01-01			
	UNITS	BH22-04	RDL	MDL	QC Batch	BH22-04 Lab-Dup	RDL	MDL	QC Batch
Metals									
Chromium (VI)	ug/L	<0.50	0.50	0.30	8394047	<0.50	0.50	0.30	8394047
Mercury (Hg)	ug/L	<0.10	0.10	0.020	8394190				
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	0.50	8393495				
Dissolved Arsenic (As)	ug/L	2.0	1.0	1.0	8393495				
Dissolved Barium (Ba)	ug/L	79	2.0	2.0	8393495				
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	0.40	8393495				
Dissolved Boron (B)	ug/L	730	10	10	8393495				
Dissolved Cadmium (Cd)	ug/L	0.11	0.090	0.090	8393495				
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	5.0	8393495				
Dissolved Cobalt (Co)	ug/L	3.0	0.50	0.50	8393495				
Dissolved Copper (Cu)	ug/L	6.9	0.90	0.90	8393495				
Dissolved Lead (Pb)	ug/L	<0.50	0.50	0.50	8393495				
Dissolved Molybdenum (Mo)	ug/L	3.4	0.50	0.50	8393495				
Dissolved Nickel (Ni)	ug/L	8.4	1.0	1.0	8393495				
Dissolved Selenium (Se)	ug/L	<2.0	2.0	2.0	8393495				
Dissolved Silver (Ag)	ug/L	<0.090	0.090	0.090	8393495				
Dissolved Sodium (Na)	ug/L	160000	100	100	8393495				
Dissolved Thallium (Tl)	ug/L	0.092	0.050	0.050	8393495				
Dissolved Uranium (U)	ug/L	11	0.10	0.10	8393495				
Dissolved Vanadium (V)	ug/L	1.1	0.50	0.50	8393495				
Dissolved Zinc (Zn)	ug/L	6.3	5.0	5.0	8393495				

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

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		UMX459	UMX460	UMX461	UMX462			
Sampling Date		2022/12/06 11:05	2022/12/06 12:35	2022/12/06 14:10	2022/12/06			
COC Number		909721-01-01	909721-01-01	909721-01-01	909721-01-01			
	UNITS	BH22-14	BH22-12	BH22-01	DUP-001	RDL	MDL	QC Batch
Metals								
Chromium (VI)	ug/L	0.70	<0.50	<0.50	<0.50	0.50	0.30	8394047
Mercury (Hg)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	0.020	8394190
Dissolved Antimony (Sb)	ug/L	0.62	<0.50	<0.50	<0.50	0.50	0.50	8393495
Dissolved Arsenic (As)	ug/L	1.3	2.6	1.1	1.5	1.0	1.0	8393495
Dissolved Barium (Ba)	ug/L	95	91	55	62	2.0	2.0	8393495
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	0.40	8393495
Dissolved Boron (B)	ug/L	160	720	850	670	10	10	8393495
Dissolved Cadmium (Cd)	ug/L	<0.090	0.10	<0.090	0.13	0.090	0.090	8393495
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	<5.0	5.0	5.0	8393495
Dissolved Cobalt (Co)	ug/L	<0.50	4.4	8.7	3.4	0.50	0.50	8393495
Dissolved Copper (Cu)	ug/L	4.3	15	11	5.2	0.90	0.90	8393495
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	0.50	0.50	8393495
Dissolved Molybdenum (Mo)	ug/L	23	2.3	2.5	3.4	0.50	0.50	8393495
Dissolved Nickel (Ni)	ug/L	2.4	6.8	12	8.6	1.0	1.0	8393495
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	<2.0	2.0	2.0	8393495
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	<0.090	0.090	0.090	8393495
Dissolved Sodium (Na)	ug/L	160000	210000	270000	150000	100	100	8393495
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	0.080	0.050	0.050	8393495
Dissolved Uranium (U)	ug/L	17	12	20	12	0.10	0.10	8393495
Dissolved Vanadium (V)	ug/L	0.79	0.81	0.83	1.0	0.50	0.50	8393495
Dissolved Zinc (Zn)	ug/L	<5.0	8.7	9.4	5.4	5.0	5.0	8393495

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		UMX458	UMX459	UMX460	UMX461	UMX462			
Sampling Date		2022/12/06 09:05	2022/12/06 11:05	2022/12/06 12:35	2022/12/06 14:10	2022/12/06			
COC Number		909721-01-01	909721-01-01	909721-01-01	909721-01-01	909721-01-01			
	UNITS	**BH22-04**	**BH22-14**	**BH22-12**	**BH22-01**	**DUP-001**	**RDL**	**MDL**	**QC Batch**
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	<0.071	<0.071	<0.071	0.071	N/A	8389066
Polyaromatic Hydrocarbons									
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	0.0030	8394594
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Chrysene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
2-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Naphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Phenanthrene	ug/L	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	0.0030	8394594
Pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	0.0030	8394594
Surrogate Recovery (%)									
D10-Anthracene	%	95	96	93	95	96			8394594
D14-Terphenyl (FS)	%	88	70	87	88	89			8394594
D8-Acenaphthylene	%	88	89	92	89	88			8394594

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		UMX458	UMX459	UMX460	UMX461	UMX462			
Sampling Date		2022/12/06 09:05	2022/12/06 11:05	2022/12/06 12:35	2022/12/06 14:10	2022/12/06			
COC Number		909721-01-01	909721-01-01	909721-01-01	909721-01-01	909721-01-01			
	UNITS	BH22-04	BH22-14	BH22-12	BH22-01	DUP-001	RDL	MDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.50	8388658
Volatile Organics									
Acetone (2-Propanone)	ug/L	<10	<10	<10	<10	<10	10	1.0	8392263
Benzene	ug/L	<0.17	<0.17	<0.17	<0.17	<0.17	0.17	0.020	8392263
Bromodichloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
Bromoform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	0.10	8392263
Bromomethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.10	8392263
Carbon Tetrachloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	8392263
Chlorobenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	8392263
Chloroform	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	8392263
Dibromochloromethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	0.050	8392263
1,1-Dichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	8392263
1,2-Dichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.020	8392263
1,1-Dichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	8392263
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
1,2-Dichloropropane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	8392263
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	0.050	8392263
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	0.050	8392263
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	8392263
Ethylene Dibromide	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	8392263
Hexane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	0.10	8392263
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	0.10	8392263
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	<10	<10	<10	10	0.50	8392263
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	0.10	8392263
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
Styrene	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		UMX458	UMX459	UMX460	UMX461	UMX462			
Sampling Date		2022/12/06 09:05	2022/12/06 11:05	2022/12/06 12:35	2022/12/06 14:10	2022/12/06			
COC Number		909721-01-01	909721-01-01	909721-01-01	909721-01-01	909721-01-01			
	UNITS	**BH22-04**	**BH22-14**	**BH22-12**	**BH22-01**	**DUP-001**	**RDL**	**MDL**	**QC Batch**
Tetrachloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	8392263
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	8392263
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	8392263
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.050	8392263
Trichloroethylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	8392263
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.10	8392263
Vinyl Chloride	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.050	8392263
p+m-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	8392263
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	8392263
Total Xylenes	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	0.010	8392263
F1 (C6-C10)	ug/L	<25	<25	<25	<25	<25	25	20	8392263
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	<25	25	20	8392263
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	99	100	99	98	98			8392263
D4-1,2-Dichloroethane	%	101	102	102	102	101			8392263
D8-Toluene	%	99	98	98	98	98			8392263

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		UMX463			
Sampling Date		2022/12/06			
COC Number		909721-01-01			
	UNITS	TRIP BLANK	RDL	MDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	0.50	8388658
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	10	1.0	8392033
Benzene	ug/L	<0.20	0.20	0.020	8392033
Bromodichloromethane	ug/L	<0.50	0.50	0.050	8392033
Bromoform	ug/L	<1.0	1.0	0.10	8392033
Bromomethane	ug/L	<0.50	0.50	0.10	8392033
Carbon Tetrachloride	ug/L	<0.19	0.19	0.050	8392033
Chlorobenzene	ug/L	<0.20	0.20	0.010	8392033
Chloroform	ug/L	<0.20	0.20	0.050	8392033
Dibromochloromethane	ug/L	<0.50	0.50	0.050	8392033
1,2-Dichlorobenzene	ug/L	<0.40	0.40	0.050	8392033
1,3-Dichlorobenzene	ug/L	<0.40	0.40	0.050	8392033
1,4-Dichlorobenzene	ug/L	<0.40	0.40	0.050	8392033
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	0.050	8392033
1,1-Dichloroethane	ug/L	<0.20	0.20	0.050	8392033
1,2-Dichloroethane	ug/L	<0.49	0.49	0.020	8392033
1,1-Dichloroethylene	ug/L	<0.20	0.20	0.050	8392033
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	0.050	8392033
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	0.050	8392033
1,2-Dichloropropane	ug/L	<0.20	0.20	0.050	8392033
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	0.050	8392033
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	0.050	8392033
Ethylbenzene	ug/L	<0.20	0.20	0.010	8392033
Ethylene Dibromide	ug/L	<0.19	0.19	0.050	8392033
Hexane	ug/L	<1.0	1.0	0.10	8392033
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	0.10	8392033
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	0.50	8392033
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	0.10	8392033
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	0.050	8392033
Styrene	ug/L	<0.40	0.40	0.050	8392033
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	0.050	8392033
1,1,2,2-Tetrachloroethane	ug/L	<0.40	0.40	0.050	8392033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		UMX463			
Sampling Date		2022/12/06			
COC Number		909721-01-01			
	UNITS	**TRIP BLANK**	**RDL**	**MDL**	**QC Batch**
Tetrachloroethylene	ug/L	<0.20	0.20	0.050	8392033
Toluene	ug/L	<0.20	0.20	0.010	8392033
1,1,1-Trichloroethane	ug/L	<0.20	0.20	0.050	8392033
1,1,2-Trichloroethane	ug/L	<0.40	0.40	0.050	8392033
Trichloroethylene	ug/L	<0.20	0.20	0.050	8392033
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	0.10	8392033
Vinyl Chloride	ug/L	<0.20	0.20	0.050	8392033
p+m-Xylene	ug/L	<0.20	0.20	0.010	8392033
o-Xylene	ug/L	<0.20	0.20	0.010	8392033
Total Xylenes	ug/L	<0.20	0.20	0.010	8392033
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	92			8392033
D4-1,2-Dichloroethane	%	118			8392033
D8-Toluene	%	99			8392033

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		UMX458	UMX459	UMX460	UMX461	UMX462			
Sampling Date		2022/12/06 09:05	2022/12/06 11:05	2022/12/06 12:35	2022/12/06 14:10	2022/12/06			
COC Number		909721-01-01	909721-01-01	909721-01-01	909721-01-01	909721-01-01			
	UNITS	**BH22-04**	**BH22-14**	**BH22-12**	**BH22-01**	**DUP-001**	**RDL**	**MDL**	**QC Batch**
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	<100	100	50	8394607
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	70	8394607
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	<200	200	50	8394607
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes	Yes			8394607
Surrogate Recovery (%)									
o-Terphenyl	%	90	98	97	99	97			8394607

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

TEST SUMMARY

Bureau Veritas ID: UMX458
Sample ID: BH22-04
Matrix: Water

Collected: 2022/12/06
Shipped:
Received: 2022/12/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8389066	N/A	2022/12/14	Automated Statchk
1,3-Dichloropropene Sum	CALC	8388658	N/A	2022/12/12	Automated Statchk
Chromium (VI) in Water	IC	8394047	N/A	2022/12/12	Theodora Luck
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8394607	2022/12/09	2022/12/12	(Kent) Maolin Li
Mercury	CV/AA	8394190	2022/12/09	2022/12/09	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8393495	N/A	2022/12/09	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8394594	2022/12/09	2022/12/10	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8392263	N/A	2022/12/09	Xueming Jiang

Bureau Veritas ID: UMX458 Dup
Sample ID: BH22-04
Matrix: Water

Collected: 2022/12/06
Shipped:
Received: 2022/12/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	8394047	N/A	2022/12/12	Theodora Luck

Bureau Veritas ID: UMX459
Sample ID: BH22-14
Matrix: Water

Collected: 2022/12/06
Shipped:
Received: 2022/12/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8389066	N/A	2022/12/14	Automated Statchk
1,3-Dichloropropene Sum	CALC	8388658	N/A	2022/12/12	Automated Statchk
Chromium (VI) in Water	IC	8394047	N/A	2022/12/12	Theodora Luck
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8394607	2022/12/09	2022/12/12	(Kent) Maolin Li
Mercury	CV/AA	8394190	2022/12/09	2022/12/09	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8393495	N/A	2022/12/09	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8394594	2022/12/09	2022/12/10	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8392263	N/A	2022/12/09	Xueming Jiang

Bureau Veritas ID: UMX460
Sample ID: BH22-12
Matrix: Water

Collected: 2022/12/06
Shipped:
Received: 2022/12/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8389066	N/A	2022/12/14	Automated Statchk
1,3-Dichloropropene Sum	CALC	8388658	N/A	2022/12/12	Automated Statchk
Chromium (VI) in Water	IC	8394047	N/A	2022/12/12	Theodora Luck
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8394607	2022/12/09	2022/12/12	(Kent) Maolin Li
Mercury	CV/AA	8394190	2022/12/09	2022/12/09	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8393495	N/A	2022/12/09	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8394594	2022/12/09	2022/12/10	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8392263	N/A	2022/12/09	Xueming Jiang

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN ROAD, OTTAWA, ON
Your P.O. #: TOR1441
Sampler Initials: RH

TEST SUMMARY

Bureau Veritas ID: UMX461
Sample ID: BH22-01
Matrix: Water

Collected: 2022/12/06
Shipped:
Received: 2022/12/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8389066	N/A	2022/12/14	Automated Statchk
1,3-Dichloropropene Sum	CALC	8388658	N/A	2022/12/12	Automated Statchk
Chromium (VI) in Water	IC	8394047	N/A	2022/12/12	Theodora Luck
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8394607	2022/12/09	2022/12/12	(Kent) Maolin Li
Mercury	CV/AA	8394190	2022/12/09	2022/12/09	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8393495	N/A	2022/12/09	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8394594	2022/12/09	2022/12/10	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8392263	N/A	2022/12/09	Xueming Jiang

Bureau Veritas ID: UMX462
Sample ID: DUP-001
Matrix: Water

Collected: 2022/12/06
Shipped:
Received: 2022/12/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8389066	N/A	2022/12/14	Automated Statchk
1,3-Dichloropropene Sum	CALC	8388658	N/A	2022/12/12	Automated Statchk
Chromium (VI) in Water	IC	8394047	N/A	2022/12/12	Theodora Luck
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8394607	2022/12/09	2022/12/12	(Kent) Maolin Li
Mercury	CV/AA	8394190	2022/12/09	2022/12/09	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	8393495	N/A	2022/12/09	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8394594	2022/12/09	2022/12/10	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8392263	N/A	2022/12/09	Xueming Jiang

Bureau Veritas ID: UMX463
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2022/12/06
Shipped:
Received: 2022/12/06

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8388658	N/A	2022/12/09	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	8392033	N/A	2022/12/08	Gabriella Morrone

GENERAL COMMENTS

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8392033	GMN	Matrix Spike	4-Bromofluorobenzene	2022/12/08		93	%	70 - 130
			D4-1,2-Dichloroethane	2022/12/08		118	%	70 - 130
			D8-Toluene	2022/12/08		101	%	70 - 130
			Acetone (2-Propanone)	2022/12/08		120	%	60 - 140
			Benzene	2022/12/08		91	%	70 - 130
			Bromodichloromethane	2022/12/08		104	%	70 - 130
			Bromoform	2022/12/08		98	%	70 - 130
			Bromomethane	2022/12/08		96	%	60 - 140
			Carbon Tetrachloride	2022/12/08		100	%	70 - 130
			Chlorobenzene	2022/12/08		94	%	70 - 130
			Chloroform	2022/12/08		101	%	70 - 130
			Dibromochloromethane	2022/12/08		99	%	70 - 130
			1,2-Dichlorobenzene	2022/12/08		95	%	70 - 130
			1,3-Dichlorobenzene	2022/12/08		93	%	70 - 130
			1,4-Dichlorobenzene	2022/12/08		106	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2022/12/08		111	%	60 - 140
			1,1-Dichloroethane	2022/12/08		99	%	70 - 130
			1,2-Dichloroethane	2022/12/08		108	%	70 - 130
			1,1-Dichloroethylene	2022/12/08		103	%	70 - 130
			cis-1,2-Dichloroethylene	2022/12/08		104	%	70 - 130
			trans-1,2-Dichloroethylene	2022/12/08		100	%	70 - 130
			1,2-Dichloropropane	2022/12/08		100	%	70 - 130
			cis-1,3-Dichloropropene	2022/12/08		98	%	70 - 130
			trans-1,3-Dichloropropene	2022/12/08		115	%	70 - 130
			Ethylbenzene	2022/12/08		88	%	70 - 130
			Ethylene Dibromide	2022/12/08		98	%	70 - 130
			Hexane	2022/12/08		98	%	70 - 130
			Methylene Chloride(Dichloromethane)	2022/12/08		103	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/12/08		120	%	60 - 140
			Methyl Isobutyl Ketone	2022/12/08		110	%	70 - 130
			Methyl t-butyl ether (MTBE)	2022/12/08		89	%	70 - 130
			Styrene	2022/12/08		93	%	70 - 130
			1,1,1,2-Tetrachloroethane	2022/12/08		95	%	70 - 130
			1,1,2,2-Tetrachloroethane	2022/12/08		101	%	70 - 130
			Tetrachloroethylene	2022/12/08		85	%	70 - 130
			Toluene	2022/12/08		89	%	70 - 130
			1,1,1-Trichloroethane	2022/12/08		101	%	70 - 130
			1,1,2-Trichloroethane	2022/12/08		119	%	70 - 130
			Trichloroethylene	2022/12/08		94	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2022/12/08		101	%	70 - 130
			Vinyl Chloride	2022/12/08		88	%	70 - 130
			p+m-Xylene	2022/12/08		88	%	70 - 130
			o-Xylene	2022/12/08		87	%	70 - 130
8392033	GMN	Spiked Blank	4-Bromofluorobenzene	2022/12/08		95	%	70 - 130
			D4-1,2-Dichloroethane	2022/12/08		114	%	70 - 130
			D8-Toluene	2022/12/08		102	%	70 - 130
			Acetone (2-Propanone)	2022/12/08		116	%	60 - 140
			Benzene	2022/12/08		93	%	70 - 130
			Bromodichloromethane	2022/12/08		103	%	70 - 130
			Bromoform	2022/12/08		96	%	70 - 130
			Bromomethane	2022/12/08		92	%	60 - 140
			Carbon Tetrachloride	2022/12/08		102	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Chlorobenzene	2022/12/08		97	%	70 - 130
			Chloroform	2022/12/08		101	%	70 - 130
			Dibromochloromethane	2022/12/08		98	%	70 - 130
			1,2-Dichlorobenzene	2022/12/08		96	%	70 - 130
			1,3-Dichlorobenzene	2022/12/08		97	%	70 - 130
			1,4-Dichlorobenzene	2022/12/08		111	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2022/12/08		117	%	60 - 140
			1,1-Dichloroethane	2022/12/08		101	%	70 - 130
			1,2-Dichloroethane	2022/12/08		106	%	70 - 130
			1,1-Dichloroethylene	2022/12/08		105	%	70 - 130
			cis-1,2-Dichloroethylene	2022/12/08		105	%	70 - 130
			trans-1,2-Dichloroethylene	2022/12/08		104	%	70 - 130
			1,2-Dichloropropane	2022/12/08		101	%	70 - 130
			cis-1,3-Dichloropropene	2022/12/08		82	%	70 - 130
			trans-1,3-Dichloropropene	2022/12/08		94	%	70 - 130
			Ethylbenzene	2022/12/08		91	%	70 - 130
			Ethylene Dibromide	2022/12/08		96	%	70 - 130
			Hexane	2022/12/08		98	%	70 - 130
			Methylene Chloride(Dichloromethane)	2022/12/08		103	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/12/08		116	%	60 - 140
			Methyl Isobutyl Ketone	2022/12/08		106	%	70 - 130
			Methyl t-butyl ether (MTBE)	2022/12/08		89	%	70 - 130
			Styrene	2022/12/08		97	%	70 - 130
			1,1,1,2-Tetrachloroethane	2022/12/08		97	%	70 - 130
			1,1,2,2-Tetrachloroethane	2022/12/08		99	%	70 - 130
			Tetrachloroethylene	2022/12/08		90	%	70 - 130
			Toluene	2022/12/08		93	%	70 - 130
			1,1,1-Trichloroethane	2022/12/08		104	%	70 - 130
			1,1,2-Trichloroethane	2022/12/08		118	%	70 - 130
			Trichloroethylene	2022/12/08		97	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2022/12/08		102	%	70 - 130
			Vinyl Chloride	2022/12/08		91	%	70 - 130
			p+m-Xylene	2022/12/08		93	%	70 - 130
			o-Xylene	2022/12/08		92	%	70 - 130
8392033	GMN	Method Blank	4-Bromofluorobenzene	2022/12/08		94	%	70 - 130
			D4-1,2-Dichloroethane	2022/12/08		116	%	70 - 130
			D8-Toluene	2022/12/08		98	%	70 - 130
			Acetone (2-Propanone)	2022/12/08	<10		ug/L	
			Benzene	2022/12/08	<0.20		ug/L	
			Bromodichloromethane	2022/12/08	<0.50		ug/L	
			Bromoform	2022/12/08	<1.0		ug/L	
			Bromomethane	2022/12/08	<0.50		ug/L	
			Carbon Tetrachloride	2022/12/08	<0.19		ug/L	
			Chlorobenzene	2022/12/08	<0.20		ug/L	
			Chloroform	2022/12/08	<0.20		ug/L	
			Dibromochloromethane	2022/12/08	<0.50		ug/L	
			1,2-Dichlorobenzene	2022/12/08	<0.40		ug/L	
			1,3-Dichlorobenzene	2022/12/08	<0.40		ug/L	
			1,4-Dichlorobenzene	2022/12/08	<0.40		ug/L	
			Dichlorodifluoromethane (FREON 12)	2022/12/08	<1.0		ug/L	
			1,1-Dichloroethane	2022/12/08	<0.20		ug/L	
			1,2-Dichloroethane	2022/12/08	<0.49		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1-Dichloroethylene	2022/12/08	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2022/12/08	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2022/12/08	<0.50		ug/L	
			1,2-Dichloropropane	2022/12/08	<0.20		ug/L	
			cis-1,3-Dichloropropene	2022/12/08	<0.30		ug/L	
			trans-1,3-Dichloropropene	2022/12/08	<0.40		ug/L	
			Ethylbenzene	2022/12/08	<0.20		ug/L	
			Ethylene Dibromide	2022/12/08	<0.19		ug/L	
			Hexane	2022/12/08	<1.0		ug/L	
			Methylene Chloride(Dichloromethane)	2022/12/08	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2022/12/08	<10		ug/L	
			Methyl Isobutyl Ketone	2022/12/08	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2022/12/08	<0.50		ug/L	
			Styrene	2022/12/08	<0.40		ug/L	
			1,1,1,2-Tetrachloroethane	2022/12/08	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2022/12/08	<0.40		ug/L	
			Tetrachloroethylene	2022/12/08	<0.20		ug/L	
			Toluene	2022/12/08	<0.20		ug/L	
			1,1,1-Trichloroethane	2022/12/08	<0.20		ug/L	
			1,1,2-Trichloroethane	2022/12/08	<0.40		ug/L	
			Trichloroethylene	2022/12/08	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2022/12/08	<0.50		ug/L	
			Vinyl Chloride	2022/12/08	<0.20		ug/L	
			p+m-Xylene	2022/12/08	<0.20		ug/L	
			o-Xylene	2022/12/08	<0.20		ug/L	
			Total Xylenes	2022/12/08	<0.20		ug/L	
8392033	GMN	RPD	Benzene	2022/12/08	NC		%	30
			Chloroform	2022/12/08	NC		%	30
			1,2-Dichlorobenzene	2022/12/08	NC		%	30
			1,4-Dichlorobenzene	2022/12/08	NC		%	30
			cis-1,2-Dichloroethylene	2022/12/08	NC		%	30
			trans-1,2-Dichloroethylene	2022/12/08	NC		%	30
			Ethylbenzene	2022/12/08	NC		%	30
			Methylene Chloride(Dichloromethane)	2022/12/08	NC		%	30
			1,1,2,2-Tetrachloroethane	2022/12/08	NC		%	30
			Tetrachloroethylene	2022/12/08	NC		%	30
			Toluene	2022/12/08	NC		%	30
			Trichloroethylene	2022/12/08	NC		%	30
			p+m-Xylene	2022/12/08	NC		%	30
			o-Xylene	2022/12/08	NC		%	30
			Total Xylenes	2022/12/08	NC		%	30
8392263	XJI	Matrix Spike	4-Bromofluorobenzene	2022/12/09		100	%	70 - 130
			D4-1,2-Dichloroethane	2022/12/09		101	%	70 - 130
			D8-Toluene	2022/12/09		98	%	70 - 130
			Acetone (2-Propanone)	2022/12/09		99	%	60 - 140
			Benzene	2022/12/09		91	%	70 - 130
			Bromodichloromethane	2022/12/09		96	%	70 - 130
			Bromoform	2022/12/09		89	%	70 - 130
			Bromomethane	2022/12/09		97	%	60 - 140
			Carbon Tetrachloride	2022/12/09		98	%	70 - 130
			Chlorobenzene	2022/12/09		94	%	70 - 130
			Chloroform	2022/12/09		97	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dibromochloromethane	2022/12/09		90	%	70 - 130
			1,2-Dichlorobenzene	2022/12/09		93	%	70 - 130
			1,3-Dichlorobenzene	2022/12/09		94	%	70 - 130
			1,4-Dichlorobenzene	2022/12/09		108	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2022/12/09		97	%	60 - 140
			1,1-Dichloroethane	2022/12/09		94	%	70 - 130
			1,2-Dichloroethane	2022/12/09		97	%	70 - 130
			1,1-Dichloroethylene	2022/12/09		98	%	70 - 130
			cis-1,2-Dichloroethylene	2022/12/09		101	%	70 - 130
			trans-1,2-Dichloroethylene	2022/12/09		98	%	70 - 130
			1,2-Dichloropropane	2022/12/09		95	%	70 - 130
			cis-1,3-Dichloropropene	2022/12/09		93	%	70 - 130
			trans-1,3-Dichloropropene	2022/12/09		93	%	70 - 130
			Ethylbenzene	2022/12/09		89	%	70 - 130
			Ethylene Dibromide	2022/12/09		92	%	70 - 130
			Hexane	2022/12/09		96	%	70 - 130
			Methylene Chloride(Dichloromethane)	2022/12/09		102	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/12/09		100	%	60 - 140
			Methyl Isobutyl Ketone	2022/12/09		93	%	70 - 130
			Methyl t-butyl ether (MTBE)	2022/12/09		91	%	70 - 130
			Styrene	2022/12/09		94	%	70 - 130
			1,1,1,2-Tetrachloroethane	2022/12/09		93	%	70 - 130
			1,1,2,2-Tetrachloroethane	2022/12/09		87	%	70 - 130
			Tetrachloroethylene	2022/12/09		93	%	70 - 130
			Toluene	2022/12/09		90	%	70 - 130
			1,1,1-Trichloroethane	2022/12/09		100	%	70 - 130
			1,1,2-Trichloroethane	2022/12/09		97	%	70 - 130
			Trichloroethylene	2022/12/09		105	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2022/12/09		98	%	70 - 130
			Vinyl Chloride	2022/12/09		85	%	70 - 130
			p+m-Xylene	2022/12/09		91	%	70 - 130
			o-Xylene	2022/12/09		88	%	70 - 130
			F1 (C6-C10)	2022/12/09		92	%	60 - 140
8392263	XJI	Spiked Blank	4-Bromofluorobenzene	2022/12/09		100	%	70 - 130
			D4-1,2-Dichloroethane	2022/12/09		101	%	70 - 130
			D8-Toluene	2022/12/09		100	%	70 - 130
			Acetone (2-Propanone)	2022/12/09		98	%	60 - 140
			Benzene	2022/12/09		90	%	70 - 130
			Bromodichloromethane	2022/12/09		94	%	70 - 130
			Bromoform	2022/12/09		87	%	70 - 130
			Bromomethane	2022/12/09		93	%	60 - 140
			Carbon Tetrachloride	2022/12/09		97	%	70 - 130
			Chlorobenzene	2022/12/09		93	%	70 - 130
			Chloroform	2022/12/09		95	%	70 - 130
			Dibromochloromethane	2022/12/09		89	%	70 - 130
			1,2-Dichlorobenzene	2022/12/09		91	%	70 - 130
			1,3-Dichlorobenzene	2022/12/09		93	%	70 - 130
			1,4-Dichlorobenzene	2022/12/09		107	%	70 - 130
			Dichlorodifluoromethane (FREON 12)	2022/12/09		96	%	60 - 140
			1,1-Dichloroethane	2022/12/09		93	%	70 - 130
			1,2-Dichloroethane	2022/12/09		95	%	70 - 130
			1,1-Dichloroethylene	2022/12/09		97	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			cis-1,2-Dichloroethylene	2022/12/09		99	%	70 - 130
			trans-1,2-Dichloroethylene	2022/12/09		97	%	70 - 130
			1,2-Dichloropropane	2022/12/09		93	%	70 - 130
			cis-1,3-Dichloropropene	2022/12/09		90	%	70 - 130
			trans-1,3-Dichloropropene	2022/12/09		90	%	70 - 130
			Ethylbenzene	2022/12/09		89	%	70 - 130
			Ethylene Dibromide	2022/12/09		90	%	70 - 130
			Hexane	2022/12/09		95	%	70 - 130
			Methylene Chloride(Dichloromethane)	2022/12/09		100	%	70 - 130
			Methyl Ethyl Ketone (2-Butanone)	2022/12/09		98	%	60 - 140
			Methyl Isobutyl Ketone	2022/12/09		89	%	70 - 130
			Methyl t-butyl ether (MTBE)	2022/12/09		90	%	70 - 130
			Styrene	2022/12/09		93	%	70 - 130
			1,1,1,2-Tetrachloroethane	2022/12/09		92	%	70 - 130
			1,1,2,2-Tetrachloroethane	2022/12/09		85	%	70 - 130
			Tetrachloroethylene	2022/12/09		92	%	70 - 130
			Toluene	2022/12/09		89	%	70 - 130
			1,1,1-Trichloroethane	2022/12/09		99	%	70 - 130
			1,1,2-Trichloroethane	2022/12/09		96	%	70 - 130
			Trichloroethylene	2022/12/09		102	%	70 - 130
			Trichlorofluoromethane (FREON 11)	2022/12/09		97	%	70 - 130
			Vinyl Chloride	2022/12/09		84	%	70 - 130
			p+m-Xylene	2022/12/09		90	%	70 - 130
			o-Xylene	2022/12/09		87	%	70 - 130
			F1 (C6-C10)	2022/12/09		94	%	60 - 140
8392263	XJI	Method Blank	4-Bromofluorobenzene	2022/12/09		99	%	70 - 130
			D4-1,2-Dichloroethane	2022/12/09		99	%	70 - 130
			D8-Toluene	2022/12/09		100	%	70 - 130
			Acetone (2-Propanone)	2022/12/09	<10		ug/L	
			Benzene	2022/12/09	<0.17		ug/L	
			Bromodichloromethane	2022/12/09	<0.50		ug/L	
			Bromoform	2022/12/09	<1.0		ug/L	
			Bromomethane	2022/12/09	<0.50		ug/L	
			Carbon Tetrachloride	2022/12/09	<0.20		ug/L	
			Chlorobenzene	2022/12/09	<0.20		ug/L	
			Chloroform	2022/12/09	<0.20		ug/L	
			Dibromochloromethane	2022/12/09	<0.50		ug/L	
			1,2-Dichlorobenzene	2022/12/09	<0.50		ug/L	
			1,3-Dichlorobenzene	2022/12/09	<0.50		ug/L	
			1,4-Dichlorobenzene	2022/12/09	<0.50		ug/L	
			Dichlorodifluoromethane (FREON 12)	2022/12/09	<1.0		ug/L	
			1,1-Dichloroethane	2022/12/09	<0.20		ug/L	
			1,2-Dichloroethane	2022/12/09	<0.50		ug/L	
			1,1-Dichloroethylene	2022/12/09	<0.20		ug/L	
			cis-1,2-Dichloroethylene	2022/12/09	<0.50		ug/L	
			trans-1,2-Dichloroethylene	2022/12/09	<0.50		ug/L	
			1,2-Dichloropropane	2022/12/09	<0.20		ug/L	
			cis-1,3-Dichloropropene	2022/12/09	<0.30		ug/L	
			trans-1,3-Dichloropropene	2022/12/09	<0.40		ug/L	
			Ethylbenzene	2022/12/09	<0.20		ug/L	
			Ethylene Dibromide	2022/12/09	<0.20		ug/L	
			Hexane	2022/12/09	<1.0		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Methylene Chloride(Dichloromethane)	2022/12/09	<2.0		ug/L	
			Methyl Ethyl Ketone (2-Butanone)	2022/12/09	<10		ug/L	
			Methyl Isobutyl Ketone	2022/12/09	<5.0		ug/L	
			Methyl t-butyl ether (MTBE)	2022/12/09	<0.50		ug/L	
			Styrene	2022/12/09	<0.50		ug/L	
			1,1,1,2-Tetrachloroethane	2022/12/09	<0.50		ug/L	
			1,1,2,2-Tetrachloroethane	2022/12/09	<0.50		ug/L	
			Tetrachloroethylene	2022/12/09	<0.20		ug/L	
			Toluene	2022/12/09	<0.20		ug/L	
			1,1,1-Trichloroethane	2022/12/09	<0.20		ug/L	
			1,1,2-Trichloroethane	2022/12/09	<0.50		ug/L	
			Trichloroethylene	2022/12/09	<0.20		ug/L	
			Trichlorofluoromethane (FREON 11)	2022/12/09	<0.50		ug/L	
			Vinyl Chloride	2022/12/09	<0.20		ug/L	
			p+m-Xylene	2022/12/09	<0.20		ug/L	
			o-Xylene	2022/12/09	<0.20		ug/L	
			Total Xylenes	2022/12/09	<0.20		ug/L	
			F1 (C6-C10)	2022/12/09	<25		ug/L	
			F1 (C6-C10) - BTEX	2022/12/09	<25		ug/L	
8392263	XJI	RPD	Acetone (2-Propanone)	2022/12/09	NC		%	30
			Benzene	2022/12/09	NC		%	30
			Bromodichloromethane	2022/12/09	NC		%	30
			Bromoform	2022/12/09	NC		%	30
			Bromomethane	2022/12/09	NC		%	30
			Carbon Tetrachloride	2022/12/09	NC		%	30
			Chlorobenzene	2022/12/09	NC		%	30
			Chloroform	2022/12/09	NC		%	30
			Dibromochloromethane	2022/12/09	NC		%	30
			1,2-Dichlorobenzene	2022/12/09	NC		%	30
			1,3-Dichlorobenzene	2022/12/09	NC		%	30
			1,4-Dichlorobenzene	2022/12/09	NC		%	30
			Dichlorodifluoromethane (FREON 12)	2022/12/09	NC		%	30
			1,1-Dichloroethane	2022/12/09	NC		%	30
			1,2-Dichloroethane	2022/12/09	NC		%	30
			1,1-Dichloroethylene	2022/12/09	NC		%	30
			cis-1,2-Dichloroethylene	2022/12/09	2.3		%	30
			trans-1,2-Dichloroethylene	2022/12/09	NC		%	30
			1,2-Dichloropropane	2022/12/09	NC		%	30
			cis-1,3-Dichloropropene	2022/12/09	NC		%	30
			trans-1,3-Dichloropropene	2022/12/09	NC		%	30
			Ethylbenzene	2022/12/09	NC		%	30
			Ethylene Dibromide	2022/12/09	NC		%	30
			Hexane	2022/12/09	NC		%	30
			Methylene Chloride(Dichloromethane)	2022/12/09	NC		%	30
			Methyl Ethyl Ketone (2-Butanone)	2022/12/09	NC		%	30
			Methyl Isobutyl Ketone	2022/12/09	NC		%	30
			Methyl t-butyl ether (MTBE)	2022/12/09	NC		%	30
			Styrene	2022/12/09	NC		%	30
			1,1,1,2-Tetrachloroethane	2022/12/09	NC		%	30
			1,1,2,2-Tetrachloroethane	2022/12/09	NC		%	30
			Tetrachloroethylene	2022/12/09	NC		%	30
			Toluene	2022/12/09	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			1,1,1-Trichloroethane	2022/12/09	NC		%	30
			1,1,2-Trichloroethane	2022/12/09	NC		%	30
			Trichloroethylene	2022/12/09	1.5		%	30
			Trichlorofluoromethane (FREON 11)	2022/12/09	NC		%	30
			Vinyl Chloride	2022/12/09	NC		%	30
			p+m-Xylene	2022/12/09	NC		%	30
			o-Xylene	2022/12/09	NC		%	30
			Total Xylenes	2022/12/09	NC		%	30
			F1 (C6-C10)	2022/12/09	NC		%	30
			F1 (C6-C10) - BTEX	2022/12/09	NC		%	30
8393495	PBA	Matrix Spike	Dissolved Antimony (Sb)	2022/12/09		104	%	80 - 120
			Dissolved Arsenic (As)	2022/12/09		101	%	80 - 120
			Dissolved Barium (Ba)	2022/12/09		98	%	80 - 120
			Dissolved Beryllium (Be)	2022/12/09		97	%	80 - 120
			Dissolved Boron (B)	2022/12/09		94	%	80 - 120
			Dissolved Cadmium (Cd)	2022/12/09		100	%	80 - 120
			Dissolved Chromium (Cr)	2022/12/09		97	%	80 - 120
			Dissolved Cobalt (Co)	2022/12/09		96	%	80 - 120
			Dissolved Copper (Cu)	2022/12/09		102	%	80 - 120
			Dissolved Lead (Pb)	2022/12/09		94	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/12/09		98	%	80 - 120
			Dissolved Nickel (Ni)	2022/12/09		96	%	80 - 120
			Dissolved Selenium (Se)	2022/12/09		100	%	80 - 120
			Dissolved Silver (Ag)	2022/12/09		92	%	80 - 120
			Dissolved Sodium (Na)	2022/12/09		NC	%	80 - 120
			Dissolved Thallium (Tl)	2022/12/09		99	%	80 - 120
			Dissolved Uranium (U)	2022/12/09		96	%	80 - 120
			Dissolved Vanadium (V)	2022/12/09		97	%	80 - 120
			Dissolved Zinc (Zn)	2022/12/09		98	%	80 - 120
8393495	PBA	Spiked Blank	Dissolved Antimony (Sb)	2022/12/09		102	%	80 - 120
			Dissolved Arsenic (As)	2022/12/09		101	%	80 - 120
			Dissolved Barium (Ba)	2022/12/09		102	%	80 - 120
			Dissolved Beryllium (Be)	2022/12/09		97	%	80 - 120
			Dissolved Boron (B)	2022/12/09		96	%	80 - 120
			Dissolved Cadmium (Cd)	2022/12/09		100	%	80 - 120
			Dissolved Chromium (Cr)	2022/12/09		98	%	80 - 120
			Dissolved Cobalt (Co)	2022/12/09		100	%	80 - 120
			Dissolved Copper (Cu)	2022/12/09		105	%	80 - 120
			Dissolved Lead (Pb)	2022/12/09		97	%	80 - 120
			Dissolved Molybdenum (Mo)	2022/12/09		98	%	80 - 120
			Dissolved Nickel (Ni)	2022/12/09		99	%	80 - 120
			Dissolved Selenium (Se)	2022/12/09		100	%	80 - 120
			Dissolved Silver (Ag)	2022/12/09		95	%	80 - 120
			Dissolved Sodium (Na)	2022/12/09		103	%	80 - 120
			Dissolved Thallium (Tl)	2022/12/09		100	%	80 - 120
			Dissolved Uranium (U)	2022/12/09		95	%	80 - 120
			Dissolved Vanadium (V)	2022/12/09		96	%	80 - 120
			Dissolved Zinc (Zn)	2022/12/09		100	%	80 - 120
8393495	PBA	Method Blank	Dissolved Antimony (Sb)	2022/12/09	<0.50		ug/L	
			Dissolved Arsenic (As)	2022/12/09	<1.0		ug/L	
			Dissolved Barium (Ba)	2022/12/09	<2.0		ug/L	
			Dissolved Beryllium (Be)	2022/12/09	<0.40		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Boron (B)	2022/12/09	<10		ug/L	
			Dissolved Cadmium (Cd)	2022/12/09	<0.090		ug/L	
			Dissolved Chromium (Cr)	2022/12/09	<5.0		ug/L	
			Dissolved Cobalt (Co)	2022/12/09	<0.50		ug/L	
			Dissolved Copper (Cu)	2022/12/09	<0.90		ug/L	
			Dissolved Lead (Pb)	2022/12/09	<0.50		ug/L	
			Dissolved Molybdenum (Mo)	2022/12/09	<0.50		ug/L	
			Dissolved Nickel (Ni)	2022/12/09	<1.0		ug/L	
			Dissolved Selenium (Se)	2022/12/09	<2.0		ug/L	
			Dissolved Silver (Ag)	2022/12/09	<0.090		ug/L	
			Dissolved Sodium (Na)	2022/12/09	<100		ug/L	
			Dissolved Thallium (Tl)	2022/12/09	<0.050		ug/L	
			Dissolved Uranium (U)	2022/12/09	<0.10		ug/L	
			Dissolved Vanadium (V)	2022/12/09	<0.50		ug/L	
			Dissolved Zinc (Zn)	2022/12/09	<5.0		ug/L	
8393495	PBA	RPD	Dissolved Antimony (Sb)	2022/12/09	NC		%	20
			Dissolved Arsenic (As)	2022/12/09	NC		%	20
			Dissolved Barium (Ba)	2022/12/09	0.49		%	20
			Dissolved Beryllium (Be)	2022/12/09	NC		%	20
			Dissolved Boron (B)	2022/12/09	0.77		%	20
			Dissolved Cadmium (Cd)	2022/12/09	NC		%	20
			Dissolved Chromium (Cr)	2022/12/09	NC		%	20
			Dissolved Cobalt (Co)	2022/12/09	NC		%	20
			Dissolved Copper (Cu)	2022/12/09	NC		%	20
			Dissolved Lead (Pb)	2022/12/09	NC		%	20
			Dissolved Molybdenum (Mo)	2022/12/09	2.5		%	20
			Dissolved Nickel (Ni)	2022/12/09	2.0		%	20
			Dissolved Selenium (Se)	2022/12/09	NC		%	20
			Dissolved Silver (Ag)	2022/12/09	NC		%	20
			Dissolved Sodium (Na)	2022/12/09	0.76		%	20
			Dissolved Thallium (Tl)	2022/12/09	NC		%	20
			Dissolved Uranium (U)	2022/12/09	6.4		%	20
			Dissolved Vanadium (V)	2022/12/09	7.2		%	20
			Dissolved Zinc (Zn)	2022/12/09	NC		%	20
8394047	TL2	Matrix Spike [UMX458-04]	Chromium (VI)	2022/12/12		102	%	80 - 120
8394047	TL2	Spiked Blank	Chromium (VI)	2022/12/12		101	%	80 - 120
8394047	TL2	Method Blank	Chromium (VI)	2022/12/12	<0.50		ug/L	
8394047	TL2	RPD [UMX458-04]	Chromium (VI)	2022/12/12	NC		%	20
8394190	JGC	Matrix Spike	Mercury (Hg)	2022/12/09		97	%	75 - 125
8394190	JGC	Spiked Blank	Mercury (Hg)	2022/12/09		97	%	80 - 120
8394190	JGC	Method Blank	Mercury (Hg)	2022/12/09	<0.10		ug/L	
8394190	JGC	RPD	Mercury (Hg)	2022/12/09	NC		%	20
8394594	JYO	Matrix Spike	D10-Anthracene	2022/12/09		96	%	50 - 130
			D14-Terphenyl (FS)	2022/12/09		93	%	50 - 130
			D8-Acenaphthylene	2022/12/09		92	%	50 - 130
			Acenaphthene	2022/12/09		79	%	50 - 130
			Acenaphthylene	2022/12/09		78	%	50 - 130
			Anthracene	2022/12/09		78	%	50 - 130
			Benzo(a)anthracene	2022/12/09		77	%	50 - 130
			Benzo(a)pyrene	2022/12/09		74	%	50 - 130
			Benzo(b/j)fluoranthene	2022/12/09		76	%	50 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Benzo(g,h,i)perylene	2022/12/09		72	%	50 - 130
			Benzo(k)fluoranthene	2022/12/09		68	%	50 - 130
			Chrysene	2022/12/09		77	%	50 - 130
			Dibenzo(a,h)anthracene	2022/12/09		59	%	50 - 130
			Fluoranthene	2022/12/09		85	%	50 - 130
			Fluorene	2022/12/09		79	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/12/09		67	%	50 - 130
			1-Methylnaphthalene	2022/12/09		79	%	50 - 130
			2-Methylnaphthalene	2022/12/09		73	%	50 - 130
			Naphthalene	2022/12/09		78	%	50 - 130
			Phenanthrene	2022/12/09		79	%	50 - 130
			Pyrene	2022/12/09		81	%	50 - 130
8394594	JYO	Spiked Blank	D10-Anthracene	2022/12/09		96	%	50 - 130
			D14-Terphenyl (FS)	2022/12/09		93	%	50 - 130
			D8-Acenaphthylene	2022/12/09		93	%	50 - 130
			Acenaphthene	2022/12/09		78	%	50 - 130
			Acenaphthylene	2022/12/09		76	%	50 - 130
			Anthracene	2022/12/09		79	%	50 - 130
			Benzo(a)anthracene	2022/12/09		79	%	50 - 130
			Benzo(a)pyrene	2022/12/09		77	%	50 - 130
			Benzo(b/j)fluoranthene	2022/12/09		78	%	50 - 130
			Benzo(g,h,i)perylene	2022/12/09		78	%	50 - 130
			Benzo(k)fluoranthene	2022/12/09		75	%	50 - 130
			Chrysene	2022/12/09		81	%	50 - 130
			Dibenzo(a,h)anthracene	2022/12/09		63	%	50 - 130
			Fluoranthene	2022/12/09		87	%	50 - 130
			Fluorene	2022/12/09		78	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2022/12/09		72	%	50 - 130
			1-Methylnaphthalene	2022/12/09		77	%	50 - 130
			2-Methylnaphthalene	2022/12/09		71	%	50 - 130
			Naphthalene	2022/12/09		76	%	50 - 130
			Phenanthrene	2022/12/09		79	%	50 - 130
			Pyrene	2022/12/09		83	%	50 - 130
8394594	JYO	Method Blank	D10-Anthracene	2022/12/09		98	%	50 - 130
			D14-Terphenyl (FS)	2022/12/09		92	%	50 - 130
			D8-Acenaphthylene	2022/12/09		90	%	50 - 130
			Acenaphthene	2022/12/09	<0.050		ug/L	
			Acenaphthylene	2022/12/09	<0.050		ug/L	
			Anthracene	2022/12/09	<0.050		ug/L	
			Benzo(a)anthracene	2022/12/09	<0.050		ug/L	
			Benzo(a)pyrene	2022/12/09	<0.0090		ug/L	
			Benzo(b/j)fluoranthene	2022/12/09	<0.050		ug/L	
			Benzo(g,h,i)perylene	2022/12/09	<0.050		ug/L	
			Benzo(k)fluoranthene	2022/12/09	<0.050		ug/L	
			Chrysene	2022/12/09	<0.050		ug/L	
			Dibenzo(a,h)anthracene	2022/12/09	<0.050		ug/L	
			Fluoranthene	2022/12/09	<0.050		ug/L	
			Fluorene	2022/12/09	<0.050		ug/L	
			Indeno(1,2,3-cd)pyrene	2022/12/09	<0.050		ug/L	
			1-Methylnaphthalene	2022/12/09	<0.050		ug/L	
			2-Methylnaphthalene	2022/12/09	<0.050		ug/L	
			Naphthalene	2022/12/09	<0.050		ug/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Phenanthrene	2022/12/09	<0.030		ug/L	
			Pyrene	2022/12/09	<0.050		ug/L	
8394594	JYO	RPD	Acenaphthene	2022/12/09	NC		%	30
			Acenaphthylene	2022/12/09	NC		%	30
			Anthracene	2022/12/09	NC		%	30
			Benzo(a)anthracene	2022/12/09	NC		%	30
			Benzo(a)pyrene	2022/12/09	NC		%	30
			Benzo(b/j)fluoranthene	2022/12/09	NC		%	30
			Benzo(g,h,i)perylene	2022/12/09	NC		%	30
			Benzo(k)fluoranthene	2022/12/09	NC		%	30
			Chrysene	2022/12/09	NC		%	30
			Dibenzo(a,h)anthracene	2022/12/09	NC		%	30
			Fluoranthene	2022/12/09	NC		%	30
			Fluorene	2022/12/09	NC		%	30
			Indeno(1,2,3-cd)pyrene	2022/12/09	NC		%	30
			1-Methylnaphthalene	2022/12/09	NC		%	30
			2-Methylnaphthalene	2022/12/09	NC		%	30
			Naphthalene	2022/12/09	NC		%	30
			Phenanthrene	2022/12/09	NC		%	30
			Pyrene	2022/12/09	NC		%	30
8394607	KLI	Matrix Spike	o-Terphenyl	2022/12/12		99	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/12		96	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/12/12		92	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/12/12		89	%	60 - 130
8394607	KLI	Spiked Blank	o-Terphenyl	2022/12/12		110	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/12		99	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2022/12/12		106	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2022/12/12		104	%	60 - 130
8394607	KLI	Method Blank	o-Terphenyl	2022/12/12		107	%	60 - 130
			F2 (C10-C16 Hydrocarbons)	2022/12/12	<100		ug/L	
			F3 (C16-C34 Hydrocarbons)	2022/12/12	<200		ug/L	
			F4 (C34-C50 Hydrocarbons)	2022/12/12	<200		ug/L	
8394607	KLI	RPD	F2 (C10-C16 Hydrocarbons)	2022/12/12	NC		%	30
			F3 (C16-C34 Hydrocarbons)	2022/12/12	NC		%	30
			F4 (C34-C50 Hydrocarbons)	2022/12/12	NC		%	30

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

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

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

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

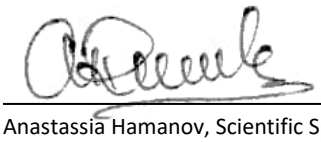
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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

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

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

Bureau Veritas 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

06-Dec-22 16:30
Ronklin Gracian
C2Z8515
J_L ENV-813

Page 1 of 1

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

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#74250 SLR Consulting (Canada) Ltd	Company Name:	#6788 SLR Consulting (Canada) Ltd	Quotation #:	C21779
Attention:	Accounts Payable	Attention:	Pierre D'Angelo	P.O. #:	TOR1441
Address:	200 - 1620 West 8th Ave	Address:	400-2301 St Laurent Blvd.	Project:	209.013940.00001
	Vancouver BC V6J 1V4		Ottawa ON K1G 4J7	Project Name:	3650 Cambrin Road ottawa, Ontario
Tel:	(604) 738-2500 Fax: (604) 738-2508	Tel:	(613) 725-1777 Fax:	Site #:	
Email:	accountspayableca@slrconsulting.com;adang@slrcons	Email:	pdangelo@slrconsulting.com	Sampled By:	R. H

Bottle Order #: 909721
COC #: C#909721-01-01
Project Manager: Ronklin Gracian

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

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

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

Special Instructions

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

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

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

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

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / CrVI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): O.Reg 153 VOCs by HS & F1-F4	PAH Compounds in Water by GC/MS (SIM)	O.Reg 153 Metals Package + Hg + CrVI	VOC only						# of Bottles	Comments
1		BH22-04	22/12/06	9:05	GW	X	✓	✓	✓							9	
2		BH22-14		11:05			✓	✓	✓							9	
3		BH22-12		12:35			✓	✓	✓							9	
4		BH22-01		14:10			✓	✓	✓							9	
5		DUP-001		—			✓	✓	✓							9	
6		Trip Blank	22/12/06	—	—					✓						2	
7																	
8																	
9																	
10																	

RECEIVED IN OTTAWA

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rebecca Hooker RHooker	22/12/06	16:20	Alexander Santiago ASA	2022/12/06	1630	
			2 VI TRIP	2022/12/07	0800	

Laboratory Use Only

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

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

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

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

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

White: Bureau Veritas Yellow: Client

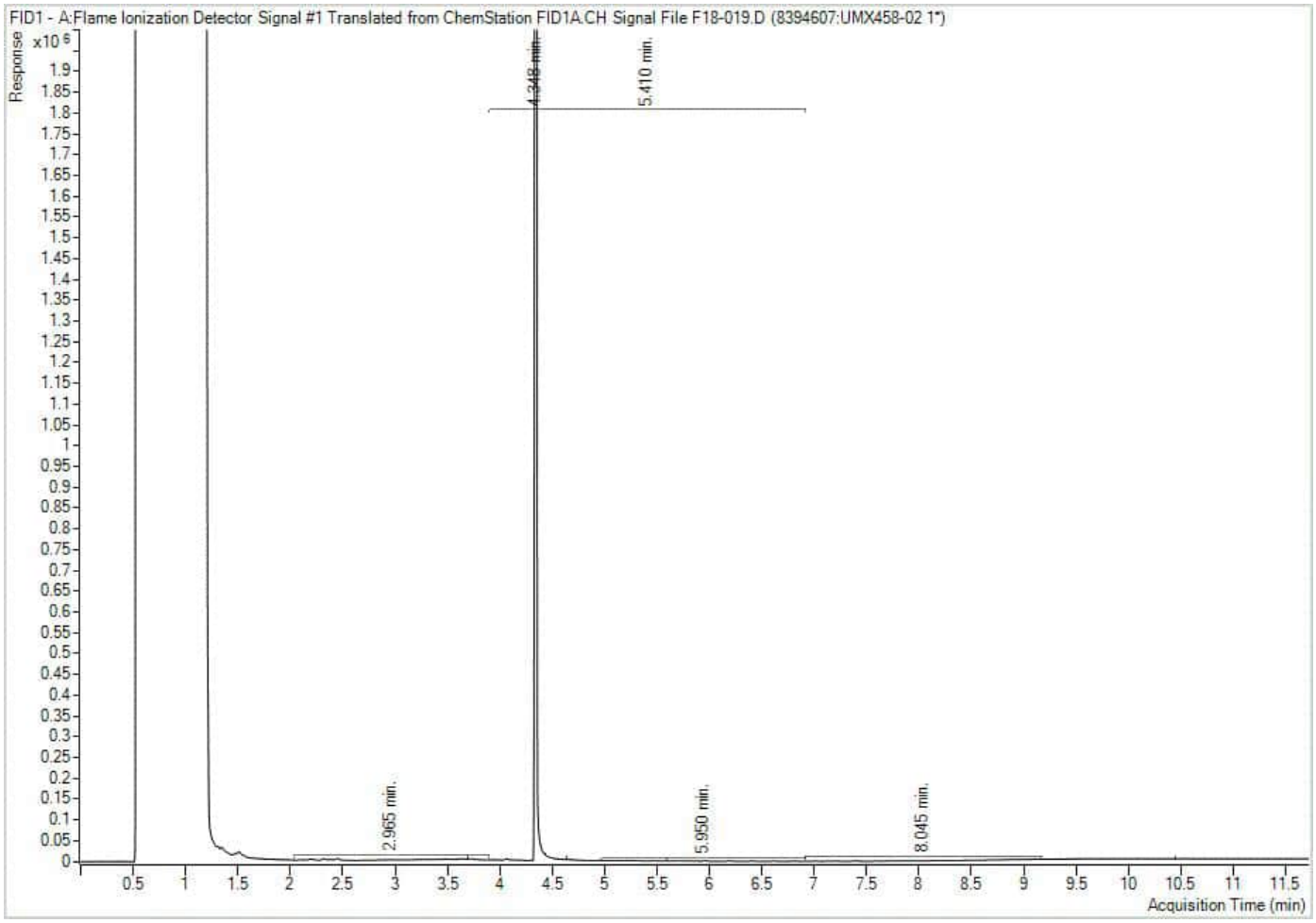
2127

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14
Bureau Veritas Sample: UMX458

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-04

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

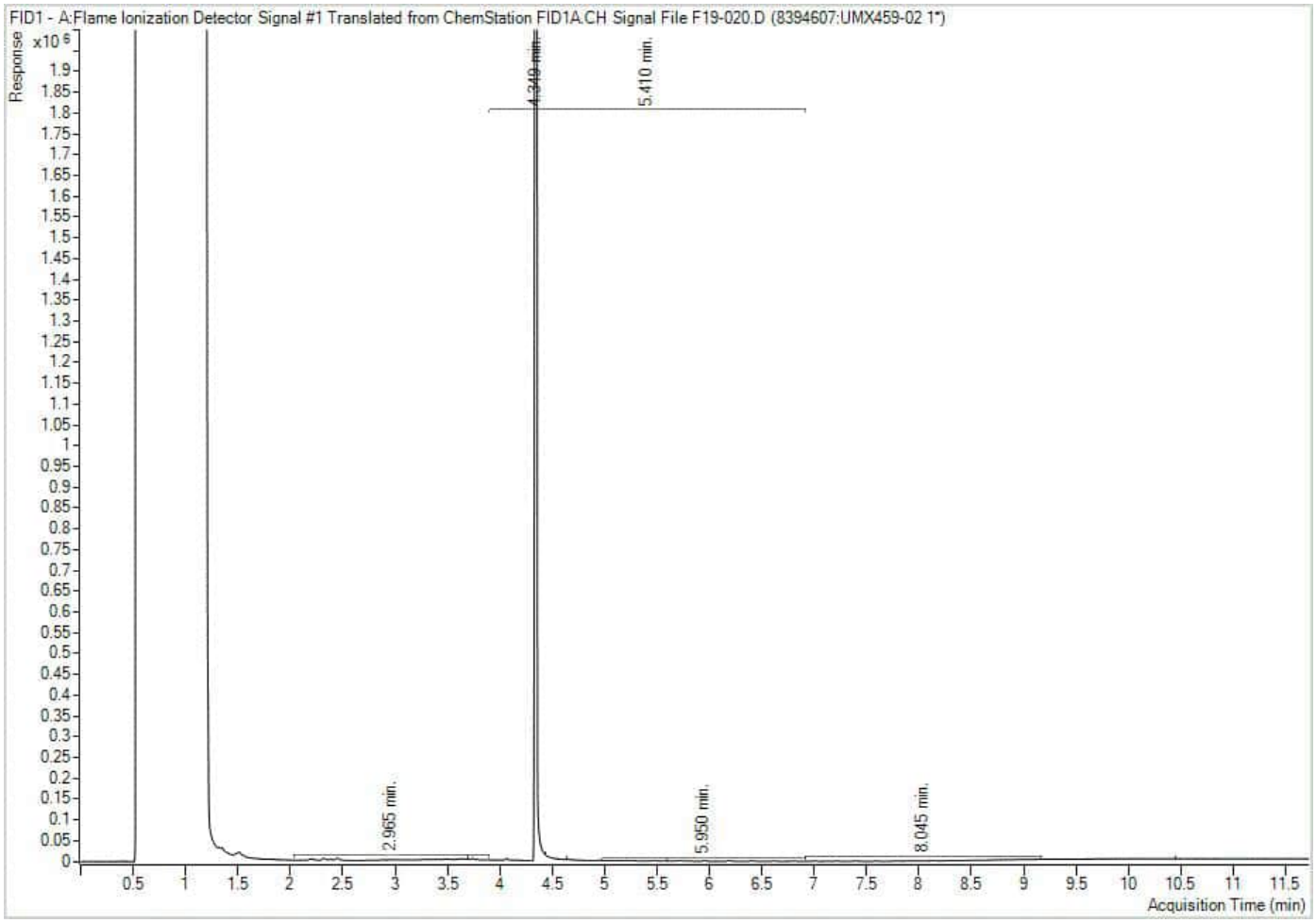


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14
Bureau Veritas Sample: UMX459

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-14

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

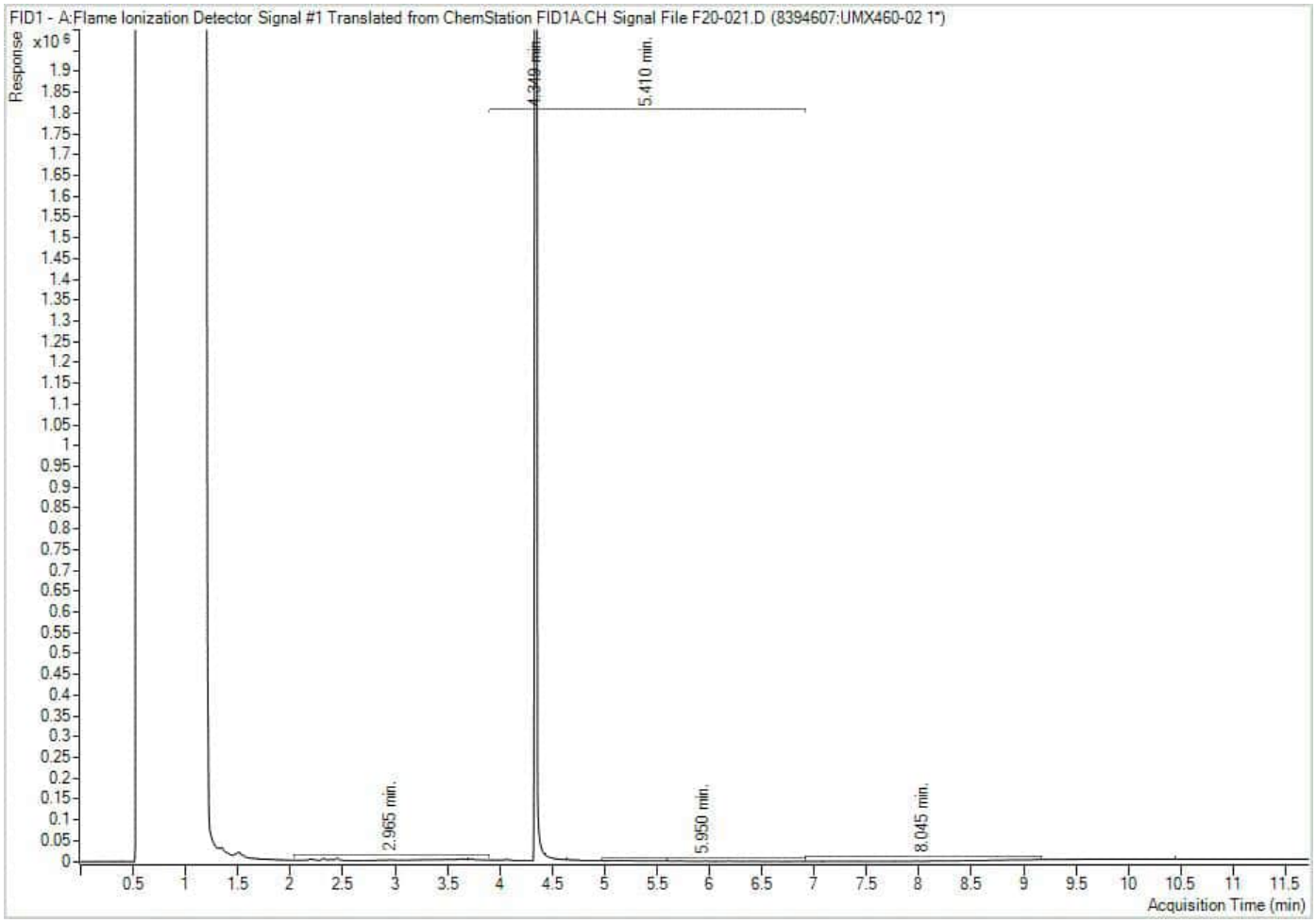


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14
Bureau Veritas Sample: UMX460

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-12

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

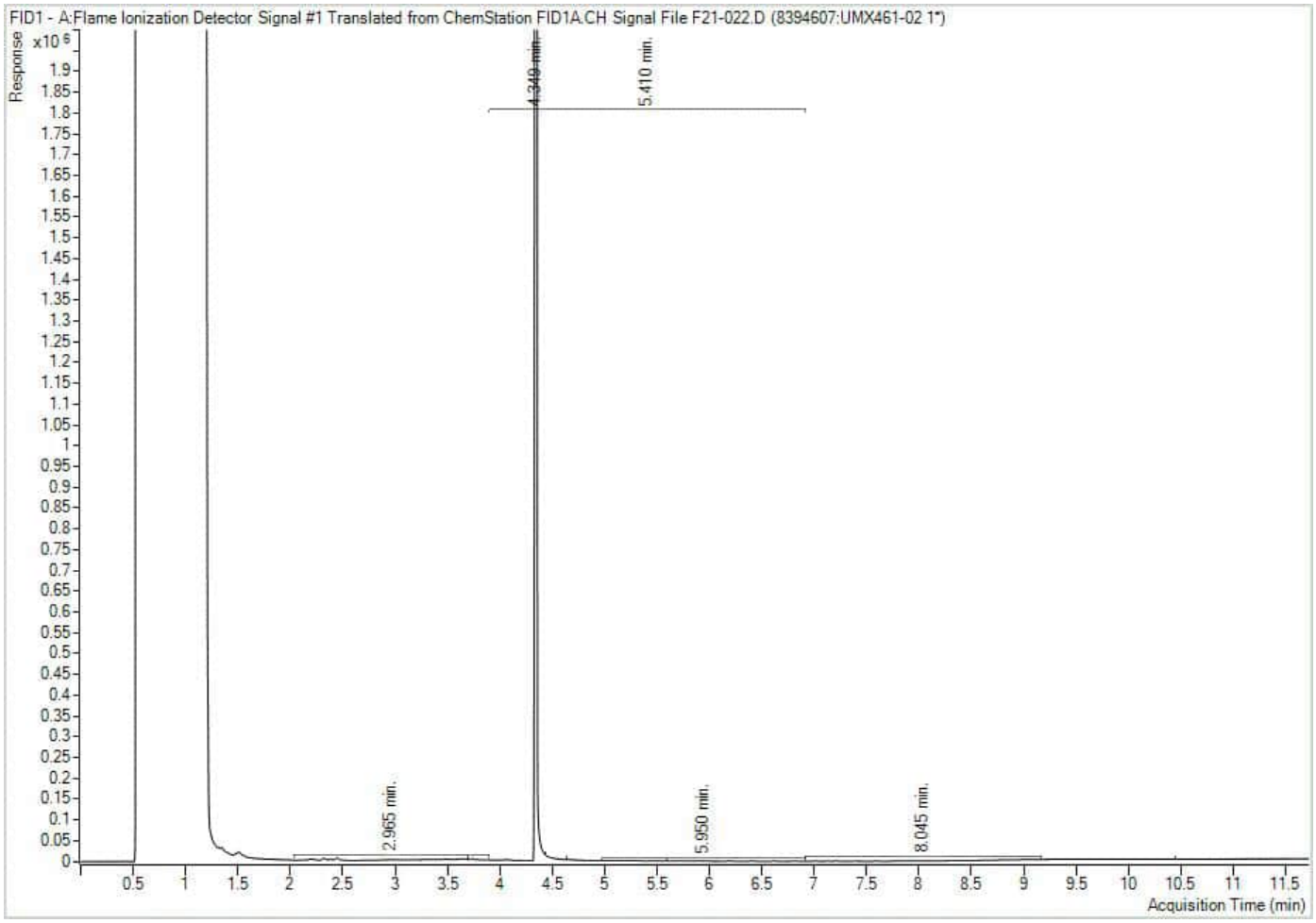


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14
Bureau Veritas Sample: UMX461

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: BH22-01

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

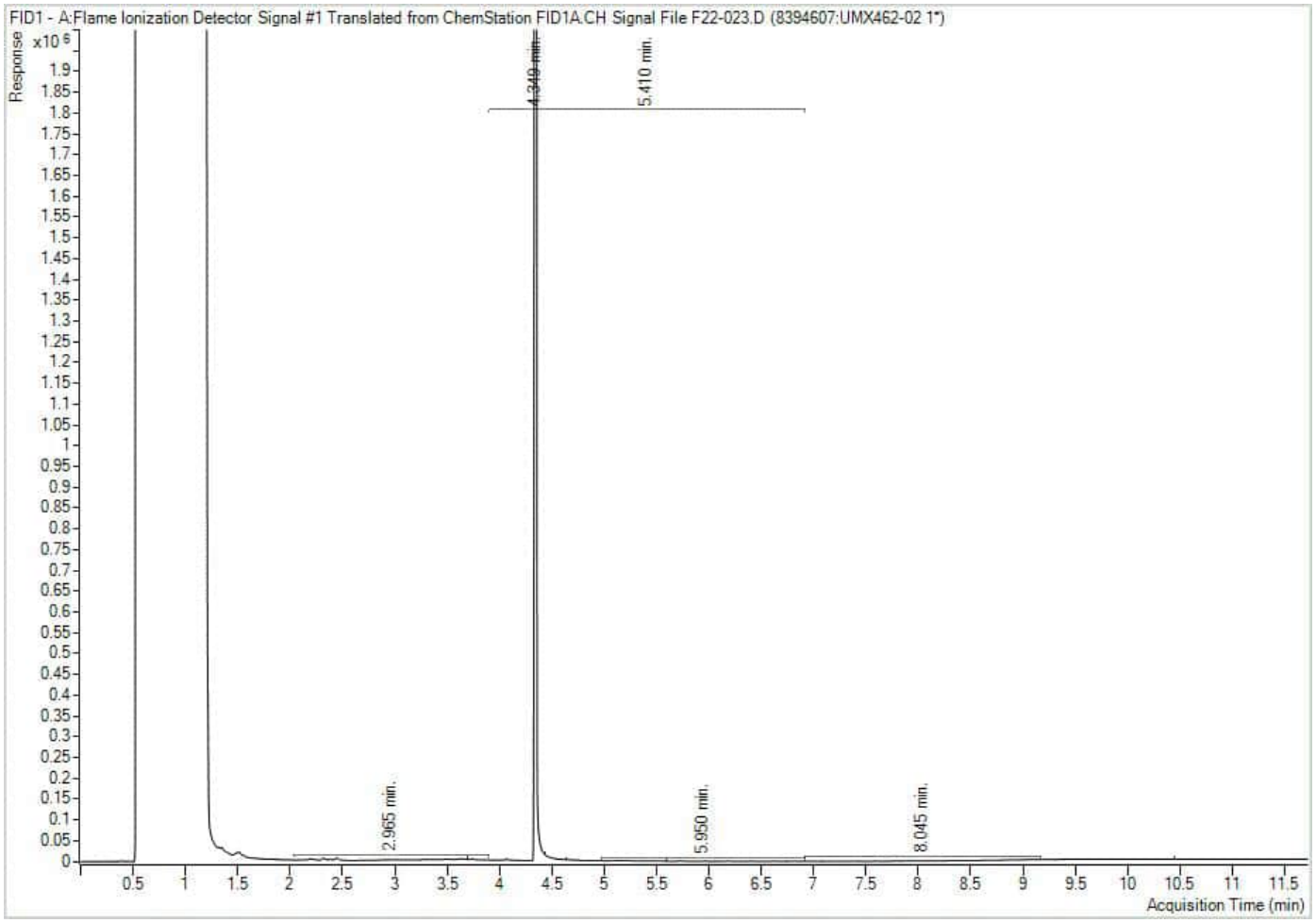


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C2Z8515
Report Date: 2022/12/14
Bureau Veritas Sample: UMX462

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Project name: 3850 CAMBRIAN ROAD, OTTAWA, ON
Client ID: DUP-001

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Your P.O. #: TOR1441
Your Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN RD., OTTAWA, ONT
Your C.O.C. #: 907894-05-01

Attention: Pierre D'Angelo

SLR Consulting (Canada) Ltd
501-55 University Ave.
Toronto, ON
Canada M5J 2H7

Report Date: 2022/12/02
Report #: R7413489
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2Y7793
Received: 2022/11/25, 08:30

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Cyanide (WAD) in Leachates (1)	1	N/A	2022/11/30	CAM SOP-00457	OMOE 3015 m
Fluoride by ISE in Leachates (1)	1	2022/11/30	2022/12/01	CAM SOP-00449	SM 23 4500-F- C m
Total Metals in TCLP Leachate by ICPMS (1)	1	2022/11/30	2022/12/01	CAM SOP-00447	EPA 6020B m
TCLP - % Solids (1)	1	2022/11/29	2022/11/30	CAM SOP-00401	EPA 1311 Update I m
TCLP - Extraction Fluid (1)	1	N/A	2022/11/30	CAM SOP-00401	EPA 1311 Update I m
TCLP - Initial and final pH (1)	1	N/A	2022/11/30	CAM SOP-00401	EPA 1311 Update I m
TCLP Zero Headspace Extraction (1)	1	2022/11/30	2022/12/01	CAM SOP-00430	EPA 1311 m
VOCs in ZHE Leachates (1)	1	2022/12/01	2022/12/01	CAM SOP-00228	EPA 8260C m

Remarks:

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

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

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

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

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

Your P.O. #: TOR1441
Your Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN RD., OTTAWA, ONT
Your C.O.C. #: 907894-05-01

Attention: Pierre D'Angelo

SLR Consulting (Canada) Ltd
501-55 University Ave.
Toronto, ON
Canada M5J 2H7

Report Date: 2022/12/02
Report #: R7413489
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2Y7793
Received: 2022/11/25, 08:30

Encryption Key

Ronklin Gracian
Project Manager
02 Dec 2022 11:13:16

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

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C2Y7793
Report Date: 2022/12/02

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN RD., OTTAWA, ONT
Your P.O. #: TOR1441
Sampler Initials: RH

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		UKM441			
Sampling Date		2022/11/24 16:55			
COC Number		907894-05-01			
	UNITS	**TCLP-001**	**RDL**	**MDL**	**QC Batch**
Charge/Prep Analysis					
Amount Extracted (Wet Weight) (g)	N/A	25	N/A	N/A	8375820
Inorganics					
Final pH	pH	5.97			8376382
Leachable Fluoride (F-)	mg/L	0.18	0.10	0.020	8375941
Initial pH	pH	9.20			8376382
TCLP - % Solids	%	100	0.2	N/A	8373682
TCLP Extraction Fluid	N/A	FLUID 1			8376380
Leachable WAD Cyanide (Free)	mg/L	<0.010	0.010	0.0050	8375936

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Bureau Veritas ID		UKM441			
Sampling Date		2022/11/24 16:55			
COC Number		907894-05-01			
	UNITS	TCLP-001	RDL	MDL	QC Batch
Metals					
Leachable Arsenic (As)	mg/L	<0.2	0.2	0.01	8375844
Leachable Barium (Ba)	mg/L	0.7	0.2	0.01	8375844
Leachable Boron (B)	mg/L	0.1	0.1	0.02	8375844
Leachable Cadmium (Cd)	mg/L	<0.05	0.05	0.0007	8375844
Leachable Chromium (Cr)	mg/L	<0.1	0.1	0.01	8375844
Leachable Lead (Pb)	mg/L	<0.1	0.1	0.001	8375844
Leachable Mercury (Hg)	mg/L	<0.001	0.001	0.0005	8375844
Leachable Selenium (Se)	mg/L	<0.1	0.1	0.01	8375844
Leachable Silver (Ag)	mg/L	<0.01	0.01	0.001	8375844

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

VOLATILE ORGANICS BY GC/MS (SOIL)

Bureau Veritas ID		UKM441			
Sampling Date		2022/11/24 16:55			
COC Number		907894-05-01			
	UNITS	TCLP-001	RDL	MDL	QC Batch
Volatile Organics					
Leachable Benzene	mg/L	<0.020	0.020	0.0020	8378276
Leachable Carbon Tetrachloride	mg/L	<0.020	0.020	0.0020	8378276
Leachable Chlorobenzene	mg/L	<0.020	0.020	0.0020	8378276
Leachable Chloroform	mg/L	<0.020	0.020	0.0020	8378276
Leachable 1,2-Dichlorobenzene	mg/L	<0.050	0.050	0.0040	8378276
Leachable 1,4-Dichlorobenzene	mg/L	<0.050	0.050	0.0040	8378276
Leachable 1,2-Dichloroethane	mg/L	<0.050	0.050	0.0040	8378276
Leachable 1,1-Dichloroethylene	mg/L	<0.020	0.020	0.0020	8378276
Leachable Methylene Chloride(Dichloromethane)	mg/L	<0.20	0.20	0.010	8378276
Leachable Methyl Ethyl Ketone (2-Butanone)	mg/L	<1.0	1.0	1.0	8378276
Leachable Tetrachloroethylene	mg/L	<0.020	0.020	0.0020	8378276
Leachable Trichloroethylene	mg/L	<0.020	0.020	0.0020	8378276
Leachable Vinyl Chloride	mg/L	<0.020	0.020	0.0040	8378276
Surrogate Recovery (%)					
Leachable 4-Bromofluorobenzene	%	89			8378276
Leachable D4-1,2-Dichloroethane	%	114			8378276
Leachable D8-Toluene	%	89			8378276

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas Job #: C2Y7793
Report Date: 2022/12/02

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN RD., OTTAWA, ONT
Your P.O. #: TOR1441
Sampler Initials: RH

TEST SUMMARY

Bureau Veritas ID: UKM441
Sample ID: TCLP-001
Matrix: Soil

Collected: 2022/11/24
Shipped:
Received: 2022/11/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	8375936	N/A	2022/11/30	Prgya Panchal
Fluoride by ISE in Leachates	ISE	8375941	2022/11/30	2022/12/01	Kien Tran
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	8375844	2022/11/30	2022/12/01	Prempal Bhatti
TCLP - % Solids	BAL	8373682	2022/11/29	2022/11/30	Jian (Ken) Wang
TCLP - Extraction Fluid		8376380	N/A	2022/11/30	Jian (Ken) Wang
TCLP - Initial and final pH	PH	8376382	N/A	2022/11/30	Jian (Ken) Wang
TCLP Zero Headspace Extraction		8375820	2022/11/30	2022/12/01	Archit Prajapati
VOCs in ZHE Leachates	GC/MS	8378276	2022/12/01	2022/12/01	Gladys Guerrero

GENERAL COMMENTS

Revised Report [2022/12/02]: Site location and sampler initials updated as per client request.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8375844	PBA	Matrix Spike	Leachable Arsenic (As)	2022/12/01		104	%	80 - 120
			Leachable Barium (Ba)	2022/12/01		109	%	80 - 120
			Leachable Boron (B)	2022/12/01		105	%	80 - 120
			Leachable Cadmium (Cd)	2022/12/01		103	%	80 - 120
			Leachable Chromium (Cr)	2022/12/01		104	%	80 - 120
			Leachable Lead (Pb)	2022/12/01		100	%	80 - 120
			Leachable Mercury (Hg)	2022/12/01		101	%	80 - 120
			Leachable Selenium (Se)	2022/12/01		106	%	80 - 120
			Leachable Silver (Ag)	2022/12/01		101	%	80 - 120
8375844	PBA	Leachate Blank	Leachable Arsenic (As)	2022/12/01	<0.2		mg/L	
			Leachable Barium (Ba)	2022/12/01	<0.2		mg/L	
			Leachable Boron (B)	2022/12/01	<0.1		mg/L	
			Leachable Cadmium (Cd)	2022/12/01	<0.05		mg/L	
			Leachable Chromium (Cr)	2022/12/01	<0.1		mg/L	
			Leachable Lead (Pb)	2022/12/01	<0.1		mg/L	
			Leachable Mercury (Hg)	2022/12/01	<0.001		mg/L	
			Leachable Selenium (Se)	2022/12/01	<0.1		mg/L	
			Leachable Silver (Ag)	2022/12/01	<0.01		mg/L	
8375844	PBA	Spiked Blank	Leachable Arsenic (As)	2022/12/01		108	%	80 - 120
			Leachable Barium (Ba)	2022/12/01		107	%	80 - 120
			Leachable Boron (B)	2022/12/01		109	%	80 - 120
			Leachable Cadmium (Cd)	2022/12/01		106	%	80 - 120
			Leachable Chromium (Cr)	2022/12/01		108	%	80 - 120
			Leachable Lead (Pb)	2022/12/01		106	%	80 - 120
			Leachable Mercury (Hg)	2022/12/01		106	%	80 - 120
			Leachable Selenium (Se)	2022/12/01		110	%	80 - 120
			Leachable Silver (Ag)	2022/12/01		108	%	80 - 120
8375844	PBA	Method Blank	Leachable Arsenic (As)	2022/12/01	<0.2		mg/L	
			Leachable Barium (Ba)	2022/12/01	<0.2		mg/L	
			Leachable Boron (B)	2022/12/01	<0.1		mg/L	
			Leachable Cadmium (Cd)	2022/12/01	<0.05		mg/L	
			Leachable Chromium (Cr)	2022/12/01	<0.1		mg/L	
			Leachable Lead (Pb)	2022/12/01	<0.1		mg/L	
			Leachable Mercury (Hg)	2022/12/01	<0.001		mg/L	
			Leachable Selenium (Se)	2022/12/01	<0.1		mg/L	
			Leachable Silver (Ag)	2022/12/01	<0.01		mg/L	
8375844	PBA	RPD	Leachable Arsenic (As)	2022/12/01	NC		%	35
			Leachable Barium (Ba)	2022/12/01	2.1		%	35
			Leachable Boron (B)	2022/12/01	NC		%	35
			Leachable Cadmium (Cd)	2022/12/01	NC		%	35
			Leachable Chromium (Cr)	2022/12/01	NC		%	35
			Leachable Lead (Pb)	2022/12/01	NC		%	35
			Leachable Mercury (Hg)	2022/12/01	NC		%	35
			Leachable Selenium (Se)	2022/12/01	NC		%	35
			Leachable Silver (Ag)	2022/12/01	NC		%	35
8375936	GYA	Matrix Spike	Leachable WAD Cyanide (Free)	2022/11/30		105	%	80 - 120
8375936	GYA	Leachate Blank	Leachable WAD Cyanide (Free)	2022/11/30	<0.010		mg/L	
8375936	GYA	Spiked Blank	Leachable WAD Cyanide (Free)	2022/11/30		101	%	80 - 120
8375936	GYA	Method Blank	Leachable WAD Cyanide (Free)	2022/11/30	<0.0020		mg/L	
8375936	GYA	RPD	Leachable WAD Cyanide (Free)	2022/11/30	NC		%	20
8375941	KIT	Matrix Spike	Leachable Fluoride (F-)	2022/12/01		97	%	80 - 120
8375941	KIT	Leachate Blank	Leachable Fluoride (F-)	2022/12/01	<0.10		mg/L	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8375941	KIT	Spiked Blank	Leachable Fluoride (F-)	2022/12/01		101	%	80 - 120
8375941	KIT	Method Blank	Leachable Fluoride (F-)	2022/12/01	<0.10		mg/L	
8375941	KIT	RPD	Leachable Fluoride (F-)	2022/12/01	0.90		%	25
8378276	GGU	Matrix Spike	Leachable 4-Bromofluorobenzene	2022/12/01		104	%	70 - 130
			Leachable D4-1,2-Dichloroethane	2022/12/01		101	%	70 - 130
			Leachable D8-Toluene	2022/12/01		107	%	70 - 130
			Leachable Benzene	2022/12/01		87	%	70 - 130
			Leachable Carbon Tetrachloride	2022/12/01		93	%	70 - 130
			Leachable Chlorobenzene	2022/12/01		95	%	70 - 130
			Leachable Chloroform	2022/12/01		93	%	70 - 130
			Leachable 1,2-Dichlorobenzene	2022/12/01		98	%	70 - 130
			Leachable 1,4-Dichlorobenzene	2022/12/01		113	%	70 - 130
			Leachable 1,2-Dichloroethane	2022/12/01		95	%	70 - 130
			Leachable 1,1-Dichloroethylene	2022/12/01		90	%	70 - 130
			Leachable Methylene Chloride(Dichloromethan	2022/12/01		97	%	70 - 130
			Leachable Methyl Ethyl Ketone (2-Butanone)	2022/12/01		109	%	60 - 140
			Leachable Tetrachloroethylene	2022/12/01		89	%	70 - 130
			Leachable Trichloroethylene	2022/12/01		99	%	70 - 130
			Leachable Vinyl Chloride	2022/12/01		85	%	70 - 130
8378276	GGU	Spiked Blank	Leachable 4-Bromofluorobenzene	2022/12/01		105	%	70 - 130
			Leachable D4-1,2-Dichloroethane	2022/12/01		97	%	70 - 130
			Leachable D8-Toluene	2022/12/01		110	%	70 - 130
			Leachable Benzene	2022/12/01		89	%	70 - 130
			Leachable Carbon Tetrachloride	2022/12/01		99	%	70 - 130
			Leachable Chlorobenzene	2022/12/01		98	%	70 - 130
			Leachable Chloroform	2022/12/01		96	%	70 - 130
			Leachable 1,2-Dichlorobenzene	2022/12/01		100	%	70 - 130
			Leachable 1,4-Dichlorobenzene	2022/12/01		117	%	70 - 130
			Leachable 1,2-Dichloroethane	2022/12/01		94	%	70 - 130
			Leachable 1,1-Dichloroethylene	2022/12/01		95	%	70 - 130
			Leachable Methylene Chloride(Dichloromethan	2022/12/01		98	%	70 - 130
			Leachable Methyl Ethyl Ketone (2-Butanone)	2022/12/01		101	%	60 - 140
			Leachable Tetrachloroethylene	2022/12/01		96	%	70 - 130
			Leachable Trichloroethylene	2022/12/01		104	%	70 - 130
			Leachable Vinyl Chloride	2022/12/01		90	%	70 - 130
8378276	GGU	Method Blank	Leachable 4-Bromofluorobenzene	2022/12/01		89	%	70 - 130
			Leachable D4-1,2-Dichloroethane	2022/12/01		112	%	70 - 130
			Leachable D8-Toluene	2022/12/01		89	%	70 - 130
			Leachable Benzene	2022/12/01	<0.020		mg/L	
			Leachable Carbon Tetrachloride	2022/12/01	<0.020		mg/L	
			Leachable Chlorobenzene	2022/12/01	<0.020		mg/L	
			Leachable Chloroform	2022/12/01	<0.020		mg/L	
			Leachable 1,2-Dichlorobenzene	2022/12/01	<0.050		mg/L	
			Leachable 1,4-Dichlorobenzene	2022/12/01	<0.050		mg/L	
			Leachable 1,2-Dichloroethane	2022/12/01	<0.050		mg/L	
			Leachable 1,1-Dichloroethylene	2022/12/01	<0.020		mg/L	
			Leachable Methylene Chloride(Dichloromethan	2022/12/01	<0.20		mg/L	
			Leachable Methyl Ethyl Ketone (2-Butanone)	2022/12/01	<1.0		mg/L	
			Leachable Tetrachloroethylene	2022/12/01	<0.020		mg/L	
			Leachable Trichloroethylene	2022/12/01	<0.020		mg/L	
			Leachable Vinyl Chloride	2022/12/01	<0.020		mg/L	
8378276	GGU	RPD	Leachable Carbon Tetrachloride	2022/12/01	NC		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Leachable Chlorobenzene	2022/12/01	NC		%	30
			Leachable Chloroform	2022/12/01	NC		%	30
			Leachable 1,2-Dichlorobenzene	2022/12/01	NC		%	30
			Leachable 1,4-Dichlorobenzene	2022/12/01	NC		%	30
			Leachable 1,2-Dichloroethane	2022/12/01	NC		%	30
			Leachable 1,1-Dichloroethylene	2022/12/01	NC		%	30
			Leachable Methylene Chloride(Dichloromethan	2022/12/01	NC		%	30
			Leachable Methyl Ethyl Ketone (2-Butanone)	2022/12/01	NC		%	30
			Leachable Tetrachloroethylene	2022/12/01	NC		%	30
			Leachable Trichloroethylene	2022/12/01	NC		%	30
			Leachable Vinyl Chloride	2022/12/01	NC		%	30

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

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

Leachate Blank: A blank matrix containing all reagents used in the leaching procedure. Used to determine any process contamination.

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

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

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

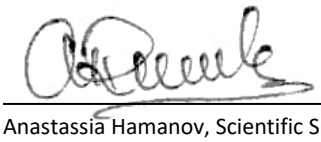
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Bureau Veritas Job #: C2Y7793
Report Date: 2022/12/02

SLR Consulting (Canada) Ltd
Client Project #: 209.013940.00001
Site Location: 3850 CAMBRIAN RD., OTTAWA, ONT
Your P.O. #: TOR1441
Sampler Initials: RH

VALIDATION SIGNATURE PAGE

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



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.

Bureau Veritas 100 – 36 Antares Dr. Nepean, ON, K2E 7W5 Phone: 613-274-0573 Website: www.bvna.com

Bureau Veritas
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel:(902) 420-0203 Toll-free:800-563-6266 Fax:(902) 420-8612 www.bvna.com

RECEIVED IN OTTAWA

CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#74250 SLR Consulting (Canada) Ltd	Company Name:	#32753 SLR Consulting (Canada) Ltd	Quotation #:	C21779	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Pierre D'Angelo	P.O. #:	TOR1441		907894
Address:	200 - 1620 West 8th Ave Vancouver BC V6J 1V4	Address:	501-55 University Ave. Toronto ON M5J 2H7	Project:	3950 Cambrian Rd, Ottawa, Ontario	COC #:	Project Manager:
Tel:	(604) 738-2500 Fax: (604) 738-2508	Tel:	(416) 320-1737 Fax:	Project Name:	209.01394.0001	C#907894-05-01	Ronklin Gracian
Email:	accountspayableca@slrconsulting.com;adang@slrcons	Email:	pdangelo@slrconsulting.com	Site #:			
				Sampled By:	RM		

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

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

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

Special Instructions

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

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

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	CCME VOC F1-F4	O. Reg 153 Metals & Inorganics Pkg	CCME PAHs (Low Level) in Soil	Terrapure TCLP Minimum Package	Particle Size Distribution with Graph	# of Bottles	Comments
1		TCLP-001	22/11/24	16:55	Soil				✓		2	
2												
3												
4												
5												
6												
7												
8												
9												
10												

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects
Regular (Standard) TAT: 2
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (If applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

25-Nov-22 08:30
Ronklin Gracian
C2Y7793
RJM ENV-1763

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rebecca Hurdo	22/11/24	19:35	Angelica Sciortino BSA	2022/11/25	0830	
			RABIJOT	22/11/26	08:34	

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: 3.1, 4 ICEPACK | Custody Seal Present / Intact: Yes ✓ / No

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

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

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

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

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

4/4/6 6/7/6

Data Quality Review: Quality Assurance/Quality Control

Project No.:	209.013940.00001	**Project Name:**	Choice Cambrian Ottawa Pre-Develop SPA
Location No.:	N/A	**Project Location:**	Ottawa, Ontario

Lab Report No.: Soil: R7420601

Chain of Custody Form No(s):

☒ Soil: 907894-01-01

☐ Water:

☐ Air:

	Date Sampled	Date Received by Lab	Date Analysis Completed	Turn-Around Time (T.A.T.)
Soil:	Nov. 23, 2022	Nov. 24, 2022	Dec. 05, 2022	11 Days
Water:	n/a	n/a	n/a	n/a
Air:	n/a	n/a	n/a	n/a

Comments: All laboratory analysis for soil samples met the T.A.T.

Name and location of laboratory: Bureau Veritas - 100 – 36 Antares Dr. Nepean, ON

QA/QC – Laboratory

QC Parameter	Soil	Water	Air
Method Blank	acceptable	n/a	n/a
Duplicate	acceptable	n/a	n/a
Blank Spike	acceptable	n/a	n/a
Matrix Spike	acceptable	n/a	n/a
Surrogate Recovery	acceptable	n/a	n/a
Comments:			

QA/QC – Field

QC Parameter	Soil	Water	Air
Temperature at Lab	acceptable	n/a	n/a
Travel Blank	n/a	n/a	n/a
Field Blank	n/a	n/a	n/a
Duplicate	acceptable	n/a	n/a
Comments:			
Samples were dropped off same day to the lab on ice packs and left in the after-hours fridge. Average temperatures at the lab were 1.6 C and 7 C, the temperatures are considered acceptable.			

Other Data Reportables	Yes/No
1. Has the CoA been signed off?	Yes
2. Has lab warranted all tests were in statistical control in CoA?	Yes
3. Has lab warranted all tests were analyzed following SOP's in CoA?	Yes
4. Were all samples analyzed within hold times?	Yes
5. All volatile organic carbon (VOC) compounds methanol preserved in the field?	Yes
6. Is Chain of Custody completed and signed?	Yes
7. Were sample temperatures acceptable when they reached the lab?	Yes

Data Quality Waiver

Was a Data Quality Waiver (DQW) issued (Yes/No)?: N/A

Date Issued: N/A Date of Response: N/A

Data Reliability

Is the data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Reviewed by (Print): Shabnam Salimi Date: Dec 12, 2022

Data Quality Review: Quality Assurance/Quality Control

Project No.:	209.013940.00001	**Project Name:**	Choice Cambrian Ottawa Pre-Develop SPA
Location No.:	N/A	**Project Location:**	Ottawa, Ontario

Lab Report No.: Soil: R7413489

Chain of Custody Form No(s):

☒ Soil: 907894-05-01

☐ Water:

☐ Air:

	Date Sampled	Date Received by Lab	Date Analysis Completed	Turn-Around Time (T.A.T.)
Soil:	Nov. 24, 2022	Nov. 25, 2022	Dec. 01, 2022	6 Days
Water:	n/a	n/a	n/a	n/a
Air:	n/a	n/a	n/a	n/a

Comments: All laboratory analysis for soil samples met the T.A.T.

Name and location of laboratory: Bureau Veritas - 100 – 36 Antares Dr. Nepean, ON

QA/QC – Laboratory

QC Parameter	Soil	Water	Air
Method Blank	acceptable	n/a	n/a
Duplicate	acceptable	n/a	n/a
Blank Spike	acceptable	n/a	n/a
Matrix Spike	acceptable	n/a	n/a
Surrogate Recovery	acceptable	n/a	n/a
Comments:			

QA/QC – Field

QC Parameter	Soil	Water	Air
Temperature at Lab	acceptable	n/a	n/a
Travel Blank	n/a	n/a	n/a
Field Blank	n/a	n/a	n/a
Duplicate	acceptable	n/a	n/a
Comments:			
Samples were dropped off same day to the lab on ice packs and left in the after-hours fridge. Average temperatures at the lab were 2.6 C, 4.6 C, and 6.3 C, the temperatures are considered acceptable.			

Other Data Reportables	Yes/No
1. Has the CoA been signed off?	Yes
2. Has lab warranted all tests were in statistical control in CoA?	Yes
3. Has lab warranted all tests were analyzed following SOP's in CoA?	Yes
4. Were all samples analyzed within hold times?	Yes
5. All volatile organic carbon (VOC) compounds methanol preserved in the field?	Yes
6. Is Chain of Custody completed and signed?	Yes
7. Were sample temperatures acceptable when they reached the lab?	Yes

Data Quality Waiver

Was a Data Quality Waiver (DQW) issued (Yes/No)?: N/A

Date Issued: N/A Date of Response: N/A

Data Reliability

Is the data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Reviewed by (Print): Shabnam Salimi Date: Dec 14, 2022

Data Quality Review: Quality Assurance/Quality Control

Project No.:	209.013940.00001	**Project Name:**	Choice Cambrian Ottawa Pre-Develop SPA
Location No.:	N/A	**Project Location:**	Ottawa, Ontario

Lab Report No.: Soil: R7423210

Chain of Custody Form No(s):

☒ Soil: 907894-03-01, 907894-04-01

☐ Water:

☐ Air:

	Date Sampled	Date Received by Lab	Date Analysis Completed	Turn-Around Time (T.A.T.)
Soil:	Nov. 24, 2022	Nov. 25, 2022	Dec. 06, 2022	11 Days
Water:	n/a	n/a	n/a	n/a
Air:	n/a	n/a	n/a	n/a

Comments: All laboratory analysis for soil samples met the T.A.T.

Name and location of laboratory: Bureau Veritas - 100 – 36 Antares Dr. Nepean, ON

QA/QC – Laboratory

QC Parameter	Soil	Water	Air
Method Blank	acceptable	n/a	n/a
Duplicate	acceptable	n/a	n/a
Blank Spike	acceptable	n/a	n/a
Matrix Spike	acceptable	n/a	n/a
Surrogate Recovery	acceptable	n/a	n/a
Comments:			

QA/QC – Field

QC Parameter	Soil	Water	Air
Temperature at Lab	acceptable	n/a	n/a
Travel Blank	n/a	n/a	n/a
Field Blank	n/a	n/a	n/a
Duplicate	acceptable	n/a	n/a
Comments:			
Samples were dropped off same day to the lab on ice packs and left in the after-hours fridge. Average temperatures at the lab were 3.3 C, 4.6 C, and 6.3 C, and the temperatures are considered acceptable.			

Other Data Reportables	Yes/No
1. Has the CoA been signed off?	Yes
2. Has lab warranted all tests were in statistical control in CoA?	Yes
3. Has lab warranted all tests were analyzed following SOP's in CoA?	Yes
4. Were all samples analyzed within hold times?	Yes
5. All volatile organic carbon (VOC) compounds methanol preserved in the field?	Yes
6. Is Chain of Custody completed and signed?	Yes
7. Were sample temperatures acceptable when they reached the lab?	Yes

Data Quality Waiver

Was a Data Quality Waiver (DQW) issued (Yes/No)?: N/A

Date Issued: N/A Date of Response: N/A

Data Reliability

Is the data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Reviewed by (Print): Shabnam Salimi Date: Dec 13, 2022

Data Quality Review: Quality Assurance/Quality Control

Project No.:	209.013940.00001	**Project Name:**	Choice Cambrian Ottawa Pre-Develop SPA
Location No.:	N/A	**Project Location:**	Ottawa, Ontario

Lab Report No.: Groundwater: R7430600

Chain of Custody Form No(s):

☐ Soil:

☒ Water: 909721-01-01

☐ Air:

	Date Sampled	Date Received by Lab	Date Analysis Completed	Turn-Around Time (T.A.T.)
Soil:	n/a	n/a	n/a	n/a
Water:	Dec. 06, 2022	Dec. 06, 2022	Dec. 14, 2022	8 Days
Air:	n/a	n/a	n/a	n/a

Comments: All laboratory analysis for groundwater samples met the T.A.T.

Name and location of laboratory: Bureau Veritas - 100 – 36 Antares Dr. Nepean, ON

QA/QC – Laboratory

QC Parameter	Soil	Water	Air
Method Blank	n/a	acceptable	n/a
Duplicate	n/a	acceptable	n/a
Blank Spike	n/a	acceptable	n/a
Matrix Spike	n/a	acceptable	n/a
Surrogate Recovery	n/a	acceptable	n/a
Comments:			

QA/QC – Field

QC Parameter	Soil	Water	Air
Temperature at Lab	n/a	acceptable	n/a
Travel Blank	n/a	acceptable	n/a
Field Blank	n/a	acceptable	n/a
Duplicate	n/a	acceptable	n/a
Comments:			
Samples were dropped off same day to the lab on ice packs during lab hours. Average temperature at the lab was 5.3 C, the temperature is considered acceptable.			

Other Data Reportables	Yes/No
1. Has the CoA been signed off?	Yes
2. Has lab warranted all tests were in statistical control in CoA?	Yes
3. Has lab warranted all tests were analyzed following SOP's in CoA?	Yes
4. Were all samples analyzed within hold times?	Yes
5. All volatile organic carbon (VOC) compounds methanol preserved in the field?	Yes
6. Is Chain of Custody completed and signed?	Yes
7. Were sample temperatures acceptable when they reached the lab?	Yes

Data Quality Waiver

Was a Data Quality Waiver (DQW) issued (Yes/No)?: N/A

Date Issued: N/A Date of Response: N/A

Data Reliability

Is the data considered to be reliable (Yes/No)?: Yes

If answer is "No", describe and provide rationale:

Reviewed by (Print): Shabnam Salimi Date: Dec 23, 2022