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Phase Two Environmental Site Assessment - 1200 King Road, Burlington, Ontario

May 13, 2024

Prepared for:
Alinea Land Corporation

Cambium Reference: 14455-002

Without Prejudice

CAMBIUM INC.

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cambium-inc.com

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1.0 Executive Summary

Alinea Land Corporation (Client) retained Cambium Inc. (Cambium) to complete a Phase Two Environmental Site Assessment (ESA) at 1200 King Road in Burlington, Ontario ('Site' or 'Phase Two Property'). The Phase Two ESA will be used to support filing a Record of Site Condition (RSC) and was, therefore, completed to meet the requirements of Ontario Regulation (O.Reg.) 153/04.

The 49.17 ha Site is on the south side of Highway 403 and southwest of King Road. The east portion of the Site was formerly used for industrial purposes in the form of brick and terra cotta manufacturing, and sewer pipe manufacturing. More recently, a portion of the Site has been used for agricultural purposes. The Site is currently vacant. The Client intends to redevelop the Site for mixed (residential, community, commercial, industrial, parkland, and institutional) property uses, which constitutes a change to a more sensitive land use.

The Phase One ESA identified 35 PCAs (5 on-site and 30 off-site) within the Phase One Study Area. The on-site PCAs and seven off-site PCAs contributed to twelve areas of potential environmental concern (APECs). The related contaminants of potential concern (COPCs) were benzene, toluene, ethylbenzene, xylenes (BTEX), petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), metals, hydride-forming metals, organochlorine pesticides (OCs), and other regulated parameters (ORPs) including mercury (Hg), electrical conductivity (EC), sodium adsorption ratio (SAR), sodium, and chloride. Potentially contaminated media were soil, groundwater, sediment, and surface water.

A Phase Two ESA work program was developed to investigate COPCs in soil, groundwater, sediment, and surface water. The Phase Two ESA included 13 boreholes, 9 of which were completed as groundwater monitoring wells. In addition, three sediment samples and three surface water samples were collected from the on-site surface water body.

Concentrations of select COPCs were greater than the Table 1 *Full Depth Background Site Condition Standards* (all property uses) in all soil, groundwater, and sediment samples.

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Concentrations of COPCs were greater than the applicable surface water criteria in samples collected from the on-site surface water body. As such, it is Cambium's opinion that an RSC cannot be filed on the basis of the Phase Two ESA alone. It is acknowledged that additional assessment will be required prior to filing an RSC, which may include one or more of the following: delineation, remediation, and/or Risk Assessment in accordance with O.Reg. 153/04.

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2.0 Introduction

Alinea Land Corporation retained Cambium to complete a Phase Two ESA at 1200 King Road, Burlington, Ontario. The Phase Two ESA will be used to support filing an RSC under Section 168.3.1 of Part XV.1 of the *Environmental Protection Act* and was, therefore, completed to meet the requirements of O.Reg. 153/04.

2.1 Site Description

The Site is on the south side of Highway 403 and southwest of King Road in Burlington, Ontario. Site information and property owner information are summarized below.

The Phase Two Property location is shown on Figure 1. The Phase Two Property boundary is shown on Figure 2.

Site Identification Information

Municipal Address	1200 King Road, Burlington, Ontario
Historical Land Use	Mixed industrial and agricultural
Current Land Use	Vacant former industrial and agricultural
Future Land Use	Residential/parkland/institutional/commercial/industrial/community
PIN	Northeast portion: 07115-0003(LT) Southwest portion: 07115-0028(LT)
Universal Transverse Mercator Coordinates*	Zone 17T 593,113 m E, 4,797,105 m N
Legal Description	**Northeast portion:** Parcel 2-2, Sec EF1; Part of Lots 2 and 3, Concession 1, Part 1 Registered Plan 20R11103; Burlington/East Flamborough Township **Southwest portion:** Part of Lots 3, 4 and 5, Concession 1 East Flamborough, Part 1 Registered Plan 20R22626, City of Burlington
Site Area	49.17 ha (121.55 acres)

* The Universal Transverse Mercator measurements were obtained from Google Earth Pro.

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2.2 Property Ownership

Property Owner	Contact Information
P & L Livestock Limited 4480 Paletta Court Burlington, Ontario, L7L 5R2	Dave Pitblado Director, Real Estate Development Alinea Land Corporation Phone: (905) 632- 6036 x 404 Email: dpitblado@pentaproperties.ca

2.3 Current and Proposed Future Uses

The central and northeast portions of the Site were formerly used for industrial purposes in the form of brick and terra-cotta manufacturing, and sewer pipe manufacturing. A historical rail spur was located on the central/southeast portion of the Site. The southwest portion of the Site was historically used for agricultural purposes; however, the Site is currently vacant. The Client intends to redevelop the Site for mixed property uses (residential, community, commercial, industrial, parkland, and institutional). To that end, the Site may be split into two or more parcels for the purpose of filing multiple RSCs. Cambium notes that residential, parkland and institutional property uses would constitute a change to a more sensitive land use.

2.4 Applicable Site Condition Standards

The *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* (MOE, 2011a) were used to determine the applicable SCS for the Site. The following site characteristics were considered when choosing which standards should be applied:

- The proposed future use of the Site is mixed residential, community, commercial, industrial, parkland, and institutional.
- Three bodies of water are present at the Site: Indian Creek, about 250 m west of the Site's eastern border and flows southeasterly; Falcon Creek, which flows southeasterly through the centre of the Site; and a pond and tributary of Grindstone Creek on the west side of the Site, which flows southwesterly. Indian Creek is considered a permanent water body, while

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Falcon Creek and the tributary of Grindstone Creek are non-permanent. As such, the area being investigated is within 30 m of a water body as defined in O.Reg. 153/04. Therefore, Section 43.1 of O.Reg. 153/04 applies to the Site.

- For groundwater at a property to be considered non-potable, all properties within 250 m of the property must be supplied by a municipal drinking water system that does not obtain its water from a groundwater source. The Site is located in an area that is supplied by municipal water supply. The City of Burlington relies on Lake Ontario for its water supply. Consent to use non-potable groundwater SCS was not provided from the City of Burlington, as such, potable groundwater SCS were considered applicable for the Site.
- A Natural Heritage Areas map (MNRF, 2024), the Official Plan of the Region of Halton (Halton Region, 2022), and the Official Plan of the City of Burlington (City of Burlington, 2022) were reviewed. A Regional Natural Heritage System is present at the Site according to the Region of Halton Official Plan. Floodplain areas and watercourses, such as the Indian Creek Floodplain and Falcon Creek, are protected under both the Region of Halton Official Plan and the City of Burlington Official Plan. No other Ministry of Natural Resources heritage sites, or areas of natural and scientific interest were identified within 30 m of the Site. Additionally, the Site did not include an area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan, or property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan applies. An environmental impact assessment (EIA) (Savanta, 2015), concluded that the Site contains natural forest communities, warmwater fisheries (Falcon Creek, Indian Creek and Grindstone Creek), and the presence of special concern species as well as provincially and locally rare flora and fauna. Additionally, habitat of endangered and threatened species, fish habitat, significant valleylands, and areas of significant woodland and significant wildlife habitat occur on the Site. A subsequent EIA by Natural Resources Solutions Inc. (NRSI) was completed in 2023 (NRSI, 2023). The NRSI report noted the potential presence of species at risk habitat on the treed areas of the Site. Further, although the on-site creeks (Falcon Creek, Indian Creek, tributary of Grindstone Creek) were observed

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to be intermittent and not known to provide fish habitat at that time; the NRSI report also indicated that some downstream areas provide fish habitat. Based on the potential presence of species at risk habitat, the Site is considered environmentally sensitive as per Section 41 of O.Reg. 153/04.

- The minimum depth to groundwater at the Site was 0.01 below ground surface (mbgs) on February 27, 2023.
- The stratigraphy consisted primarily of topsoil (0 to 0.23 mbgs), clayey silt (0.23 to 1.22 mbgs), silty sand (0 to 1.5 mbgs), silt and sand (0.61 to 1.52 mbgs), fill (1.5 to 2.29 mbgs), and silty clay with trace sand and gravel (0 to 7.3 mbgs). Bedrock was not encountered to the maximum depth of investigation (7.3 mbgs). Grain size analysis was not completed for soil samples collected at the Site, as such, SCS for coarse textured soil were considered appropriate.

Based on the above information, the applicable SCS for the Site were the Table 1 *Full Depth Background Site Condition Standards.* All property uses (residential, parkland, institutional, industrial, commercial, and community) were selected to determine concentration exceedances for the analyzed parameters in soil, groundwater, and sediment.

It is noted that the Site may be divided into several RSC parcels in the future which may or may not be within 30 m of an area of natural and scientific interest. As such, comparison of soil and groundwater results to SCS other than Table 1 SCS was considered for future RSC parcels that may not be considered environmentally sensitive as per Section 41 of O.Reg. 153/04. Given the site characteristics detailed above and the presence of groundwater at a depth as shallow as 0.01 mbgs, the SCS for shallow soil were considered applicable to account for potential decreased biodegradation, groundwater dilution, and increased vapour to indoor air migration. The potential for enhanced vapour migration from shallow groundwater was assessed by screening the soil and groundwater results against the Table 6 *Generic SCS for Shallow Soils in a Potable Ground Water Condition* for residential, parkland, and institutional property use.

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The surface water samples were compared to the Provincial Water Quality Objectives (PWQO) and the Ministry Aquatic Protection Values (APV) for identification of exceedances of COPCs (MOE, 2011b).

2.5 General Objectives

The general objectives of the Phase Two ESA were to determine the location and concentration of contaminants in the soil, groundwater, sediment, and surface water in or under the Phase Two Property; and subsequently determine if the SCS or other applicable criteria for contaminants on, in or under the Phase Two Property were met. These objectives were achieved by developing an understanding of the geological and hydrogeological conditions at the Phase Two Property and conducting field investigations for the identified COPCs. The Phase Two ESA included a soil, groundwater, sediment, and surface water investigation.

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3.0 Background Information

3.1 Physical Setting

The topography of the Site slopes downward to the southeast with a total relief of approximately 8 to 10 m. Regionally, the topography slopes southeasterly towards Lake Ontario, about 3,500 m to the southeast.

The Site is within the Iroquois Plain physiographic region (Chapman & Putnam, 1984), characterized by sand plains. In the general area, the overburden is comprised of Paleozoic bedrock, clay to silt-textured till, and coarse-textured glaciolacustrine deposits of sand, gravel, minor silt and clay (OGS, 2010). The soils overlie the Queenston Formation, characterized by shale, limestone, dolostone, and siltstone (OGS, 2007).

- Three bodies of water are present at the Site: Indian Creek, about 250 m west of the Site's eastern border, which flows southeasterly; Falcon Creek, which flows southeasterly through the centre of the Site; and a pond and tributary of Grindstone Creek on the west side of the Site that flow southwesterly. All three creeks discharge into Lake Ontario.

Groundwater levels were generally less than 1 mbgs in the on-site monitoring wells; groundwater flow in the clay-based overburden was southerly toward Hamilton Harbour (Terra-Dynamics, 2014).

The Phase One Study Area is municipally serviced for drinking water. No drinking water wells were observed on the Site and no records of drinking water wells at the Site were identified by the records review.

A search of the Ministry Water Well Information System by Environmental Risk Information Services Ltd. (ERIS) identified 18 water well records within the Phase One Study Area ranging from about 10 m to 240 m from the Site. The wells were identified as water supply wells, observation wells, and monitoring and test holes.

The Site contains habitat of endangered and threatened species, and significant valley lands; therefore, an Area of Natural Significance was considered present on the Site (Savanta, 2015).

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3.2 Past Investigations

The following reports were reviewed by Cambium (with Cambium commentary in italics).

Phase I ESA (BABAL, 2011)

Bruce A. Brown Associates Limited (BABAL) completed the Phase I ESA in general accordance with the Canadian Standards Association (CSA) standard Z768-01 in 2011.

At the time of the investigation, P& L Livestock Limited, operating as Paletta International Corporation, had owned the property for about seven years. The Site was undeveloped with no buildings or structures. The Site consisted of woodlands and a pond on the west portion and the east portion was used for agricultural purposes by a tenant farmer.

A survey indicated that there was a former rail spur extending parallel to the tree line at the west end of the field. *Cambium has inferred this comment to be referencing the southwest corner of the field east of Falcon Creek.*

In the 1960s aerial, the earliest viewed aerial, the Site consists of agricultural fields, a cluster of buildings, inferred to be farm-related, in the central portion of the Site, and a woodlot. Several north-south rural roads intersect the Site. In the 1978 aerial photograph, the Site appeared largely vacant with no former buildings or structures remaining. The Site consisted of abandoned fields, woodlands, vacant land, a pond, and a small sand pit is evident immediately west of King Road.

BABAL made no recommendation for additional follow-up investigations or intrusive testing in the form of a Phase II ESA for environmental purposes.

Geotechnical Investigation (Soil-Mat Engineers, 2011)

A preliminary geotechnical investigation in 2011 involved the advancement of eight boreholes to a maximum depth of 9.6 m below ground surface (mbgs) on the east side of the Site. The topography of the area slopes downwards to the southeast with a total relief of approximately 8 to 10 m.

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Stratigraphy generally consisted of topsoil ranging from 100 to 300 mm thick above fill and/or native silty clay. Fill consisting of silty clay or silty sand was encountered in three boreholes advanced on the southeast portion of the Site. Shale bedrock was encountered at depths of roughly 7.5 to 8.8 mbgs in three boreholes.

On completion of drilling, free groundwater was encountered at 1 to 5.5 mbgs in four boreholes.

Hydrogeological and Hydrological Report (Terra-Dynamics, 2014)

Terra-Dynamics Consulting Inc. (Terra-Dynamics) was retained by Alinea Land Corporation (formerly Penta Properties Inc.) to complete a hydrological assessment of the property at 1200 King Road in Burlington, Ontario.

A hydrogeological assessment, streamflow monitoring, and surface water quality monitoring was conducted with the purpose of assessing pre-development hydrogeologic conditions, groundwater recharge conditions, creek water quality, and to identify any developmental constraints regarding a Groundwater Protection Plan.

As a component of the investigation, 10 monitoring wells were installed at representative locations across the Site. Stainless steel drive point wells were also manually installed at several locations across the Site to serve as staff gauges and correlate creek levels with groundwater levels.

Terra-Dynamics concluded the following based on the results of the investigation:

- The Site is underlain by 7 to 11 m of very low permeability silty clay and clay-based glacial till deposits, with isolated and discontinuous pockets of silt and silty sand.
- The overburden deposits overlie thick, laterally extensive shale bedrock, which forms the Queenston Shale Formation. On the eastern sections of the proposed development, bedrock is recharged with an average linear groundwater velocity <2.0 cm/year. On the western sections of the proposed development, bedrock is recharged at the same rate for approximately half of the year. In the drier seasons, a vertically upward hydraulic gradient is

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present, restricting the downward movement of groundwater from the overburden to the shale bedrock.

- Groundwater levels were generally less than 1 mbgs in the on-site monitoring wells. Groundwater flow in the clay-based overburden is generally southwards towards Hamilton Harbour.
- A horizontal hydraulic gradient of 9.29 x 10^{-9} m/s was estimated for the on-site silty clay and silty clay till overburden.
- Groundwater elevations in on-site wells ranged from 103.85 to 112.67 m asl. Based on Site topography and the upper elevation of the shale aquitard dipping toward Hamilton Harbour to the south, the likely prominent flow direction of bedrock groundwater is to the south.
- On-site creeks and tributaries, Indian Creek on the east side of the Site, Falcon Creek in the centre of the Site, and a tributary of Grindstone Creek and pond on the west side of the Site, flow from north to south across the Site.
- Approximately 4 to 5 m of low permeability clay-based deposits are present beneath Indian Creek and Falcon Creek. Approximately 120 m of low permeability shale underlies the overburden.
- Surface water quality results from both high and low flow conditions indicated elevated concentrations of chloride. This is presumably derived from the application of road salt for de-icing on Highway 403. Elevated total phosphorus and iron concentrations were also identified throughout Indian Creek, Falcon Creek, and the tributary of Grindstone Creek.

Stage 1-2 Archaeological Assessment (Archaeological Assessments, 2014b)

The subject lands investigated pertains to the portion of the Site east of Falcon Creek. The subject lands consisted of a combination of previously disturbed lands, agricultural lands, forested areas and scrublands. The area between Falcon Creek and Indian Creek is dominated by a broad, elevated ridge of disturbed lands. The broad disturbed ridge contains massive amounts of broken bricks, concrete, modern building debris and fill. It represents the former location of a manufacturing complex operated by National Sewer Pipe Limited in the

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mid-20th century. Other large pockets of disturbance can be seen in other sections of the subject property where there were a number of different buildings, roads and a rail spur. Some of the disturbed areas are now associated with agricultural lands, which became re-established on the property when the industrial site was closed and demolished in the 1970s.

The southwestern area east of Falcon Creek, contains a linear, elevated area which is the location of a former rail spur extending from the CN Rail lands to the southeast. This overgrown, former spur is roughly 15 m wide and elevated 5 m. It is composed of large quantities of slag, brick/ceramic and metal materials. The eastern edge of this forested area includes large quantities of 20th-century industrial debris (concrete, cinder blocks, brick, ceramic piping material, metal) and also the concrete foundation of a small building.

The subject lands were owned in the 1870s by several different farmers who occupied 100 - 200 acre lots. There were no homesteads or buildings on the subject property at that time. The Site appears vacant in the 1875 Historical Atlas Map of Flamborough East Township. The Great Western Railroad is present south of the Site and a building is depicted south of the Site on the lands on the northwest corner of the intersection of the rail line and King Road.

In the 1950s, National Sewer Pipe Limited had a manufacturing plant on the subject property which made bricks and ceramic sewer pipes. In the 1959 and 1963 aerial photographs, a number of different buildings can be seen in the area between Falcon Creek and Indian Creek, along with several roads, other large areas of disturbance and a rail spur. By 1978 all of the buildings had been demolished and parts of the property slowly became reforested. For the last 15 years or so, the open undisturbed sections of the property have been used for agricultural purposes.

Environmental Impact Assessment (Savanta, 2015)

The Environmental Impact Assessment (EIA) by Savanta Inc. (Savanta) concluded that the Site contains natural forest communities, warmwater fisheries (Falcon Creek, Indian Creek and Grindstone Creek), and the presence of Special Concern species as well as provincially and locally rare flora and fauna. Habitat of Endangered and Threatened Species, Fish Habitat,

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Significant Valleylands, and areas of Significant Woodland and Significant Wildlife Habitat occur on the Site.

The following listed threatened or endangered species were observed on the Site: Chimney Swift (Chaetura pelagica); Butternut (Juglans cinerea); and Barn Swallow (Hirundo rustica). Foraging habitat for the Chimney Swift and Barn Swallow is present on the Site.

Two Butternut trees (endangered) were originally observed on the Site although one has since died and has fallen.

Three areas located west of Falcon Creek, are deemed to meet standard and accepted criteria for Significant Wildlife Habitat: seasonal concentration areas for animals – turtle wintering area for Snapping turtle and Midland Painted turtle in the dug pond; colonial nesting breeding bird habitat for Green Heron adjacent to the dug pond and habitat for species of concern – Snapping turtle observed in the dug pond, Eastern Wood Pewee and Wood Thrush.

Framework Plan, Environmental Impact Assessment (NRSI, 2023)

A subsequent EIA by Natural Resources Solutions Inc. (NRSI) was completed in 2023. This EIA was completed on the entire Phase One Property and concluded that the existing natural/naturalized habitats are ecologically isolated from other similar habitats due to presence of Highway 403, the CNR corridor, and a GO train station to the northwest, southeast, and southwest of the Site, respectively. As such, the Site is isolated from similar habitats to the northwest and southeast of the Site; however, NRSI had also noted that no similar woodland or wetland habitats were reported to the southeast and northeast of the Site. NRSI reported that surrounding properties were primarily occupied by commercial and employment lands with limited greenspace.

NRSI identified a relatively small area of deciduous woodland associated with Falcon Creek, as well as a few smaller scattered pockets along the north property boundary along the Highway 403 right-of-way. Based on the results of the wildlife inventories completed as part of this study, NRSI concluded that a number of wildlife species use the on-site mature woodland. In addition, some amphibian and reptile species (namely turtles) were noted from the human-

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made central pond. This central pond also has a small stand of buttonbush along its north shore.

NRSI further assessed the on-site wetland conditions using the updated Ontario Wetland Evaluation System (OWES). “The extent of the wetland complex has been reviewed and re-assessed based on the latest OWES manual. Complexing across Hwy 403 is not seen as supportable under the new system. As well, there are 2 subcatchments on-site which contain small wetland areas (tributary to the Grindstone Creek and Falcon Creek). It is concluded that these wetlands should be considered two separate groupings. The areas of the wetland communities are very small (<2-ha) which would normally not be suitable for evaluation. The two wetland clusters were evaluated using the 4th edition of OWES. These evaluations confirm that the on-site wetlands are not provincially significant” (NRSI, 2023).

No significant open country wildlife species were recorded during the field surveys conducted by NRSI. “A prairie indicator plant species was found in the central portion of the property, but this small patch was not of sufficient character to qualify as prairie” (NRSI, 2023).

Potential bat habitat was present in the woodlands. NRSI had indicated that the woodlands are expected to be retained along with additional woodlands.

NRSI noted that “The overall result of the retention, enhancement, creation, and management of the on-site features in conjunction with implementation of effective mitigation measures are anticipated to result in no significant residual negative impacts to the vegetation, wildlife, and aquatic resources on the property” (NRSI, 2023).

Phase One ESA (Cambium, 2024)

A Phase One ESA was completed for the Site by Cambium consistent with O.Reg. 153/04 to support filing an RSC.

Review of historical documents indicated that the Site was developed for industrial use in approximately 1894 when the central portion of the Site was owned by Burlington Pressed Brick & Terra Cotta Co.

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The Phase One ESA identified 35 PCAs, 5 on-site and 30 off-site, within the Phase One Study Area. The on-site PCAs and seven off-site PCAs contributed to APECs at the Site. The related COPCs were BTEX, PHCs, VOCs, PAHs, PCBs, OCs, metals, hydride-forming metals, and ORPs including Hg, EC, SAR, sodium, and chloride. Potentially contaminated media were soil, groundwater, sediment, and surface water.

Based on the observations and information obtained for the Site during the Phase One ESA, a Phase Two ESA is required to support filing an RSC.

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4.0 Scope of the Investigation

4.1 Overview of the Site Investigation

The proposed scope of work for the Phase Two ESA was based on the requirements of O.Reg. 153/04 and the findings of the Phase One ESA. Soil, groundwater, sediment, and surface water samples were submitted to an accredited analytical laboratory. The Phase Two ESA was subject to a Quality Assurance/Quality Control (QA/QC) program, including analysis of blind duplicate soil, groundwater, sediment, and surface water samples and trip blanks.

Cambium coordinated all subcontractors required to complete the work, including utility locators, a licensed well drilling contractor, and the laboratory. Prior to conducting field work, Cambium prepared a Health and Safety Plan (HASP) tailored to the known and possible on-site contaminants, physical site hazards, and the type of work to be conducted. Included in the HASP was a detailed map showing the transportation route to the nearest hospital, emergency contact numbers, and other pertinent information required for work on potentially contaminated sites. All persons entering the Site, as contractors or otherwise, were required to review and sign the HASP prior to their admission.

Cambium arranged for underground services to be located and marked by public and private utility companies prior to starting intrusive investigations. The proposed borehole locations were clear of utilities.

A sampling and analysis plan (SAP) was prepared to address the identified APECs and is included in Appendix A.

4.2 Media Investigated

The Phase Two ESA investigated soil, groundwater, sediment, and surface water. Soil quality at the Site was investigated through drilling and soil sampling. Monitoring wells were installed in select drilled boreholes for groundwater sampling. Grab samples of sediment and surface water were taken using a shovel and pole-sampler.

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4.3 Phase One Conceptual Site Model

The Phase One Conceptual Site Model (CSM) is required to assist the Qualified Person (QP) in illustrating the results of the Phase One ESA and to provide a basis for further work, if required. The Phase One CSM Study Area is shown on Figure 2. The Phase One CSM Site Plan is shown on Figure 3. The following descriptions and discussion supplement the figures, and together comprise the CSM.

4.3.1 Site Description

The 49.17 ha Site is located southeast of Highway 403 and southwest of King Road, in Burlington, Ontario. The legal description of the Site is Parcel 2-2, Sec EF1; Part of Lots 2 and 3, Concession 1, Part 1 Registered Plan 20R11103; Burlington/East Flamborough Township (PIN 07115-0003(LT)) and Part of Lots 3, 4 and 5, Concession 1 East Flamborough, Part 1 Registered Plan 20R22626, City of Burlington (PIN 07115-0028(LT)). The PINs are 07115-0003(LT) and 07115-0028(LT). The UTM coordinates for the centroid for the Site are Zone 17 T, 593113 m east and 4797105 m north. The Site is bounded by Highway 403 to the northwest, King Road to the northeast, the CNR corridor to the southeast, the Aldershot GO Station to the southwest.

4.3.2 Existing Buildings and Structures

No buildings or structures are present on the Site.

Historical buildings and structures have been removed.

4.3.3 Water Bodies and Areas of Natural Significance

Three bodies of water are present at the Site: Indian Creek, about 250 m west of the Site's eastern border, which flows southeasterly; Falcon Creek, which flows southeasterly through the centre of the Site; and a pond and tributary of Grindstone Creek on the west side of the Site that flow southwesterly. Indian Creek is considered a permanent water body, while Falcon Creek and the tributary of Grindstone Creek are non-permanent. As such, the area being

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investigated is within 30 m of a water body as defined in O.Reg. 153/04. Therefore, Section 43.1 of O.Reg. 153/04 applies to the Site.

A Natural Heritage Areas map (MNRF, 2024), the Official Plan of the Region of Halton (Halton Region, 2022) and the Official Plan of the City of Burlington (City of Burlington, 2022) were reviewed. A Regional Natural Heritage System is present at the Site according to the Region of Halton Official Plan. Floodplain areas and watercourses, such as the Indian Creek Floodplain and Falcon Creek, are protected under both the Region of Halton Official Plan and the City of Burlington Official Plan. No other Ministry of Natural Resources heritage sites, or areas of natural and scientific interest were identified within 30 m of the Site. Additionally, the Site did not include an area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan, or property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan applies. An environmental impact assessment (Savanta, 2015), concluded that the Site contains natural forest communities, warmwater fisheries (Falcon Creek, Indian Creek and Grindstone Creek), and the presence of special concern species as well as provincially and locally rare flora and fauna. Additionally, habitat of endangered and threatened species, fish habitat, significant valleylands, and areas of significant woodland and significant wildlife habitat occur on the Site. As such, the Site is considered environmentally sensitive as per Section 41 of O.Reg. 153/04.

4.3.4 Drinking Water Wells

The Phase One Study Area is municipally serviced for drinking water. A search of the Ministry Water Well Information System by ERIS identified one record for on-site water well; however, a review of the record indicates that it is for a property along Lakeshore Road, outside of the Phase One Study Area. ERIS identified 18 water well records within the Phase One Study Area ranging from about 10 m to 240 m from the Site. The wells were identified as water supply wells, observation wells, and monitoring and test holes.

Stratigraphy in the off-site wells within 100 m of the Site was generally sand or gravelly clay above silty clay to clay till. Shale bedrock was encountered between 7.6 and 11 mbgs.

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4.3.5 Potentially Contaminating Activities

Based on the records review, site reconnaissance, and interviews, 35 PCAs (5 on-site and 30 off-site) were identified within the Phase One Study Area. Refer to Table 1 for further description of the identified PCAs and Figure 2 for locations of the identified PCAs.

The following PCAs contribute to APECs:

PCA 1 – On-site: fill material and brick debris on the central and northeast portion of the Site; #30 Importation of Fill Material of Unknown Quality

PCA 2 – On-site: Inferred brick manufacturing at the central portion of the Site associated with Burlington Pressed Brick & Terra Cotta; N/A

PCA 3 – On-site: Inferred sewer pipe manufacturing at the central portion of the Site associated with National Sewer Pipe Company; #12 – Concrete, Cement, and Lime Manufacturing

PCA 4 – On-site: former rail spur on the central/eastern portion of the Site; #46 Rail Yards, Tracks and Spurs

PCA 5 – On-site: historical orchard observed in the 1934 and 1961 aerial photographs at the southwest portion of the Site; #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 6 – Off-site: Commercial automotive repair and towing operations at 1231 King Road; #10 – Commercial Autobody Shops

PCA 7 – Off-site: Diesel fuel spill from a fire/explosion at 1231 King Road; N/A

PCA 8 – Off-site: Window manufacturing at 1217 King Road; N/A

PCA 9 – Off-site: Oil runoff from a fire/explosion at 1201 King Road; N/A

PCA 10 – Off-site: Coolant and transformer leak at 1187 King Road; N/A

PCA 11 – Off-site: Tar dumping at 1160 King Road; N/A

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PCA 12 – Off-site: Use of salt for deicing on off-site roads and sidewalks (Highway 403 and King Road); N/A

The following PCAs do not contribute to APECs:

PCA 13 – Off-site: Historical orchard on the adjacent lands in the 1934 and 1961 aerial photographs; #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 14 – Off-site: Commercial automotive repair operations at 441 North Service Road; #10 – Commercial Autobody Shops

PCA 15 – Off-site: Two historical landfill sites located approximately 120 m northwest of the Site with inferred landfilling operations located over 400 m northwest of the Site. RSC identified groundwater impacts at 441 North Service Road; #58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners

PCA 16 – Off-site: Commercial automotive repair operations at 1163 King Road; #10 – Commercial Autobody Shops

PCA 17 – Off-site: Metal products manufacturing at 1163 King Road; #34 – Metal Fabrication

PCA 18 – Off-site: Electronics manufacturing at 1163 King Road; #19 – Electronic and Computer Equipment Manufacturing

PCA 19 – Off-site: Cabinet, countertop manufacturing and furniture building at 1163 King Road; N/A

PCA 20 – Off-site: Ontario Hydro substation at 1225 King Road; #18 – Electricity Generation, Transformation and Power Stations

PCA 21 – Off-site: Greenhouse operations at 1102 King Road; #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

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PCA 22 – Off-site: Commercial automotive repair operations at 1102 King Road; #10 – Commercial Autobody Shops

PCA 23 – Off-site: Window manufacturing at 617 Enfield Road; N/A

PCA 24 – Off-site: Metal products manufacturing at 617 Enfield Road; #34 – Metal Fabrication

PCA 25 – Off-site: Metal products manufacturing at 483 Enfield Road; #34 – Metal Fabrication

PCA 26 – Off-site: Printing operations at 483 Enfield Road; #31 – Ink Manufacturing, Process maying and Bulk Storage

PCA 27 – Off-site: Printing operations at 463 Enfield Road; #31 – Ink Manufacturing, Process maying and Bulk Storage

PCA 28 – Off-site: Electronic equipment manufacturing at 435 Enfield Road; #19 – Electronic and Computer Equipment Manufacturing

PCA 29 – Off-site: Refrigerator manufacturing at 425 Enfield Road; #34 – Metal Fabrication

PCA 30 – Off-site: Commercial automotive repair operations at 425 Enfield Road; #10 – Commercial Autobody Shops

PCA 31 – Off-site: Printing operations at 419 Enfield Road; #31 – Ink Manufacturing, Process maying and Bulk Storage

PCA 32 – Off-site: Metal products manufacturing at 419 Enfield Road; #34 – Metal Fabrication

PCA 33 – Off-site: Furniture manufacturing at 419 Enfield Road; N/A

PCA 34 – Off-site: Greenhouse operations at 1135 Gallagher Road; #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 35 – Off-site: railway tracks located approximately 90 m southeast; #46 - Rail Yards, Tracks and Spurs

The qualified person has determined that a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice on immediately

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adjacent properties to the Site. As such, the exemption set out in paragraph 1 of section 49.1 of O.Reg. 153/04 will be relied upon. The exemptions set out in paragraphs 1.1, 2 and 3 of section 49.1 of O.Reg. 153/04 will not be relied upon.

4.3.6 Areas of Potential Environmental Concern

As required by O.Reg. 153/04, all on-site PCAs contributed to an APEC. Based on a review of potential to result in contamination at the Site, seven of the off-site PCAs contributed to twelve APECs. Refer to Table 2 for APEC details and Figure 3 for APEC locations.

APEC 1 – Central and northeast portion of the Site, east of Falcon Creek, associated with PCA 1, fill of unknown quality. COPCs include PHCs, BTEX, PAHs, Metals, As, Se, Sb, Hg.

APEC 2 – Central and northeast portion of the Site, northeast of Falcon Creek, associated with PCA 2, historical brick manufacturing. COPCs include PHCs, BTEX, PAHs, Metals, As, Se, Sb.

APEC 3 – Central and northeast portion of the Site, northeast of Falcon Creek, associated with PCA 3, historical sewer pipe manufacturing. COPCs include PHCs, BTEX, PAHs, Metals, As, Se, Sb.

APEC 4 – Central portion of the Site, east of Falcon Creek, associated with PCA 4, historical rail spur. COPCs include PHCs, BTEX, PAHs, Metals, As, Se, and Sb.

APEC 5 – Southwest portion of the Site, associated with PCA 5, historical on-site orchard. COPCs include Metals, As, Se, Sb, Hg, and OCs.

APEC 6 – Northeast property boundary, associated with PCA 6, neighbouring automobile repair facility. COPCs include PHCs, BTEX, VOCs, THMs, PAHs, Metals, As, Se, Sb, Hg.

APEC 7 – Northeast property boundary, associated with PCA 7, historical spills. COPCs include PHCs, BTEX, and PAHs.

APEC 8 – Northeast property boundary, associated with PCA 8, historical off-site manufacturing. COPCs include PHCs, BTEX, VOCs, Metals, As, Se, and Sb.

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APEC 9 – Northeast property boundary, associated with PCA 9, historical spills. COPCs include PHCs, BTEX, VOCs, and PAHs.

APEC 10 – Northeast property boundary, associated with PCA 10, historical spills. COPCs include PHCs, BTEX, and PCBs.

APEC 11 – Northeast/east property boundary, associated with PCA 11, historical spills. COPCs include PHCs, BTEX, VOCs, PAHs, Metals, As, Se, and Sb.

APEC 12 – Northwest, northeast and east property boundary, associated with PCA 12, salt use for de-icing. COPCs include EC, SAR, sodium, and chloride.

4.3.7 Contaminants of Potential Concern

COPCs were identified for each PCA contributing to an APEC. The COPCs specific to each APEC are summarized in Table 2. BTEX, PHCs, VOCs, PAHs, PCBs, OCs, metals, hydride-forming metals, and ORPs such as Hg, EC, SAR, sodium, and chloride were identified as COPCs related to the current and historical on and off-site PCAs.

4.3.8 Contaminant Distribution and Transport

Indian Creek is directed through a culvert on the south side of the Site. On-site creeks likely influence contaminant distribution and transport.

No underground utilities were identified on, in, or under the Site. Contaminant distribution and transport may be influenced by the presence of utility trenches that were historically present on the Site. Water level data reviewed for the Site indicates that the water table is within a silty or clayey till layer, which would likely have lower hydraulic conductivity when compared to trench backfill. Therefore, it is possible that preferential migration of contaminants would occur via historical utility trenches.

No specific climatic or meteorological conditions were observed that may influence the distribution or migration of contaminants.

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4.3.9 Geological and Hydrogeological Setting

In the geotechnical investigation (Soil-Mat Engineers, 2011), the topography of the east side of the Site was described as sloping downwards to the southeast with a total relief of approximately 8 to 10 m. Stratigraphy on the east side of the Site was generally comprised of topsoil above fill and/or native silty clay. Fill consisting of silty clay or silty sand was encountered in three boreholes advanced on the south portion of the Site. Shale bedrock was encountered at depths of roughly 7.5 to 8.8 mbgs in three boreholes. On completion of drilling, free groundwater was encountered at 1 to 5.5 mbgs in four boreholes.

Terra-Dynamics identified the following soil profile at the Site during the hydrogeological and hydrological Report (Terra-Dynamics, 2014):

- The Site contains 7 to 11 m of very low permeability silty clay and clay-based glacial till deposits, with isolated and discontinuous pockets of silt and silty sand. The overburden deposits overlie thick, laterally extensive shale bedrock, which forms the Queenston Shale Formation.
- Approximately 4 to 5 m of low permeability clay-based deposits are present beneath Indian Creek and Falcon Creek. Approximately 120 m of low permeability shale underlies the overburden.

A previous hydrogeological investigation indicated that groundwater levels were generally less than 1 mbgs in the on-site monitoring wells and groundwater flow in the clay-based overburden was southerly toward Hamilton Harbour (Terra-Dynamics, 2014). Terra-Dynamics calculated an estimated horizontal hydraulic gradient of 9.29×10^{-9} m/s for the on-site silty clay and silty clay till overburden. On the east sections of the proposed development, Terra-Dynamics estimated bedrock is recharged with an average linear groundwater velocity less than 2.0 cm/year. On the western sections of the proposed development, Terra-Dynamics determined similar bedrock recharge for approximately half of the year. In the drier seasons, a vertically upward hydraulic gradient was present, restricting the downward movement of groundwater from the overburden to the shale bedrock.

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- Topographic maps (MNRF, 2024; Canada, 2024) of the study area provided information regarding the regional topography and hydrology.
- The ground surface at the Site slopes down to the southeast. A low-lying area is present in the centre of the Site associated with Falcon Creek. A high-lying area is present along the northern property boundary, just east of the Site's forested area. Regional topography slopes southeasterly toward Lake Ontario, about 3,500 m to the southeast.
- Three bodies of water are present at the Site: Indian Creek, about 250 m west of the Site's eastern border which flows southeasterly; Falcon Creek, which flows southeasterly through the centre of the Site; and a pond and tributary of Grindstone Creek on the west side of the Site that flow southwesterly. All three creeks discharge into Lake Ontario.

The Site is within the Iroquois Plain physiographic region (Chapman & Putnam, 1984), characterized by sand plains. In the general area, the overburden is comprised of Paleozoic bedrock, clay to silt-textured till, and coarse-textured glaciolacustrine deposits of sand, gravel, minor silt and clay (OGS, 2010). The soils overlie the Queenston Formation, characterized by shale, limestone, dolostone, and siltstone (OGS, 2007). A review of Ministry water well records (MECP, 2024) for boreholes within 100 m of the Site. Stratigraphy in the off-site wells was generally sand or gravelly clay above silty clay to clay till. Shale bedrock was encountered between 7.6 and 11 mbgs.

4.3.10 Uncertainty or Absence of Information

All aspects of the Phase One ESA were conducted consistent with O.Reg. 153/04, and as such, the Site was investigated thoroughly. As access to the entire Site was possible, and adequate historical information was available through the interviewee's, records review, and FOI request, uncertainty or absence of information is not expected. While the placement of historical on and off-site structures and PCAs based on aerial imagery may be of low accuracy, investigations completed during the Phase Two ESA can account for this uncertainty.

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5.0 Investigation Method

5.1 General

The following sections provide a detailed description of the subsurface investigations. Soil, groundwater, sediment, and surface water samples were selectively analyzed for BTEX, PHCs, VOCs, PAHs, PCBs, OCs, metals, hydride-forming metals, and ORPs including Hg, EC, SAR, sodium, and chloride.

As indicated in Section 2.4, based on the site characteristics and the proposed future use of the Site, the applicable standards for the Site are Table 1 SCS. All types of property use (except agricultural) and coarse soil texture were selected to identify analyzed parameters present on the Site at concentrations exceeding the SCS.

As discussed in 2.4, it is noted that the Site may be divided into several RSC parcels in the future which may or may not be within 30 m of an area of natural and scientific interest. As such, comparison of soil and groundwater results to standards other than Table 1 SCS was considered for future RSC parcels that may not be considered environmentally sensitive as per Section 41 of O.Reg. 153/04. Given the site characteristics detailed above and the presence of groundwater at a depth as shallow as 0.01 mbgs, the Table 6 SCS for shallow soil were considered applicable to account for potential decreased biodegradation, groundwater dilution, and increased vapour to indoor air migration. The potential for enhanced vapour migration from shallow groundwater was assessed by screening the soil and groundwater results against the Table 6 SCS.

The surface water samples were compared to the PWQO and the Ministry APV for identification of exceedances of COPCs (MOE, 2011b).

5.2 Soil: Drilling

The drilling investigation was completed on December 13, 14 and 15, 2022. Drilltech Drilling Ltd. (Drilltech) advanced 13 boreholes into overburden to a maximum depth of 7.3 mbgs. Borehole locations are shown on Figure 4.

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5.3 Soil: Sampling

During the drilling program, soil samples were collected at regular 0.76 m intervals. Each sample was handled solely by the Cambium field technician using dedicated nitrile gloves to reduce the potential for cross-contamination.

Soil samples were logged for soil type, moisture content, presence of odour, and signs of impacts such as staining, consistent with standard geotechnical and environmental soil descriptions and nomenclature. The samples were divided on-site, a portion was placed in dedicated sample jars for submission to the laboratory, with the remainder placed in sealed plastic sample bags and used to screen for combustible and/or organic vapours present in the soil headspace. The field screening observations were used to determine which samples to submit for laboratory analysis. Samples to be submitted for analysis of volatile parameters were collected applying the appropriate techniques, as per O.Reg. 153/04 (i.e., pre-calibrated syringe sampler and methanol preserved vial).

5.4 Field Screening Measurements

Olfactory and visual observations of the soil samples were documented immediately upon extraction for soil characteristics and potential indicators of environmental contamination. Soil samples were screened using an RKI Eagle 2 portable gas detector for concentrations of combustible soil vapour (CSV) and organic vapour (OV), calibrated to hexane and isobutylene, respectively. After agitating the sample, the peak reading was recorded by inserting the meter probe into the sample bag. Refer to the borehole logs in Appendix B for the recorded vapour readings.

5.5 Groundwater: Monitoring Well Installation

Monitoring wells were installed in nine of the thirteen boreholes and were constructed using 50 mm inner diameter, flush threaded PVC well pipe with a section of screen at the base of the well. The annular space was filled with washed silica sand filter pack to 0.3 m above the top of the screen and the wells were completed with bentonite (seal) and native soil cuttings to at least 0.3 mbgs. The monitoring wells were completed with monument steel protective covers.

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Borehole logs illustrating the monitoring well installation details are included in Appendix B. Monitoring wells were installed such that the well screen intersected the surface of the shallowest water-bearing unit identified during drilling.

Following installation of each monitoring well, a minimum of three well volumes of groundwater, if present, was purged to remove sediment from the well, stabilize and grade the filter pack, improve connectivity between the well and the formation, and restore groundwater that may have been disturbed during the drilling process.

5.6 Groundwater: Sampling

Groundwater sampling was conducted on January 27, February 1 and 27, 2023, consistent with O.Reg. 153/04 under the supervision of a QP.

Prior to sampling, the static water level was recorded at each of the monitoring wells using an interface probe, which can accurately measure the depth to groundwater and the thickness of dense and light non-aqueous phase liquids (DNAPL & LNAPL). Each groundwater monitoring well was purged of approximately three well bore volumes or three times dry using dedicated polyethylene tubing and inertial lift foot valves, prior to sample collection. The volume of water to be purged from each well was calculated on-site during the monitoring events using the measured water levels and the well diameter.

Groundwater samples were collected using a peristaltic pump, with dedicated tubing installed in each of the monitoring wells. The peristaltic pump reduces the amount of sediment entrained in the collected groundwater samples, as agitation of the water column is kept to a minimum by lowering the pumping rate and limiting the movement of the tubing in the water column. Water quality parameters were measured using a flow-through cell and allowed to stabilize prior to sample collection, to ensure samples were representative of the surrounding groundwater aquifer. Groundwater samples submitted for analysis of metals were field-filtered.

Technicians wore nitrile gloves while collecting the groundwater samples and replaced the glove set between each sample location.

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5.7 Sediment: Sampling

Sediment sampling was conducted in general accordance with the Ministry's sediment sampling guidelines (MOE, 1996). Sediment samples were collected by hand auger or hand tools on December 20 and 21, 2022 and November 30, 2023, and were logged for soil type, colour, presence of odour, and signs of impacts such as staining or foreign material. Technicians wore nitrile gloves while collecting the sediment samples and replaced the glove set between each sample location.

Samples to be submitted for analysis of volatile parameters were collected applying the appropriate techniques, as per O.Reg. 153/04 (i.e., pre-calibrated syringe sampler and methanol preserved vial).

5.8 Surface Water: Sampling

Surface water samples were collected on December 20 and 21, 2022 and November 30, 2023 using an extension pole and 500 mL polyethylene bottle. The surface water sampling program began downstream and ended at upstream locations, and surface water samples were collected at each location prior to sediment sampling. Samples submitted for analysis of metals were lab-filtered.

5.9 Analytical Testing

All samples potentially requiring laboratory analysis were placed in a cooler and kept at less than 10°C for transport to the laboratory.

Samples were submitted for analysis of one or more of the COPCs. The analytical results are discussed in Section 6.0 and copies of the laboratory Certificates of Analysis as received from the analytical laboratory are included in Appendix C.

- Based on field observations and screening, the following soil samples were submitted for analysis, excluding quality control samples:
- Fourteen samples for BTEX/PHCs

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- Six samples for VOCs
- Twelve samples for PAHs
- Twelve samples for metals and hydride-forming metals
- Two samples for PCBs
- Two samples for OCs
- Seven samples for EC and SAR
- Two samples for Hg
- Five samples for pH

The following groundwater samples were submitted for analysis, excluding quality control samples:

- Nine samples for BTEX/PHCs
- Six samples for VOCs
- Nine samples for PAHs
- Two samples for PCBs
- Two samples for OCs
- Eight samples for metals and hydride-forming metals
- One sample for Hg
- Eight samples for sodium

The following sediment samples were submitted for analysis, excluding quality control samples:

- Six samples for BTEX/PHCs
- Six samples for PAHs
- Six samples for metals and hydride-forming metals

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- Six samples for Hg
- Six samples for hexavalent chromium (CrVI)
- Four samples for hot water-soluble boron (HWS-B)

The following surface water samples were submitted for analysis, excluding quality control samples:

- Six samples for BTEX/PHCs
- Six samples for PAHs
- Six samples for metals and hydride-forming metals
- Four samples for Hg
- Six samples for sodium
- Four samples for chloride
- Six samples for CrVI
- Four samples for cyanide (CN-)

5.10 Residue Management Procedures

Soil cuttings from the drilling program, and purge water from well development, were placed in drums and left on-site for later disposal.

5.11 Elevation Surveying

Ground surface and top of pipe elevations were surveyed at the boreholes and monitoring wells. Elevations were determined relative to the top of a fire hydrant along King Road by the Site entrance, as illustrated and described in the notes on Figure 4.

5.12 Quality Assurance and Quality Control Measures

As part of the QA/QC program, blind duplicate soil, groundwater, sediment, and surface water samples were submitted at a rate of one duplicate sample for every ten samples analyzed.

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Blind duplicate samples were collected at the same time as the parent sample and placed into a separate container; split sampling methodology was used to ensure that the sampling was completed using the same method for both parent and duplicate samples. Refer to Section 6.8.4 for the results of the QA/QC program.

A trip blank was prepared by the laboratory and submitted for analysis of VOCs together with the groundwater samples. A trip blank is a sample of laboratory grade water that has negligible or immeasurable amounts of the substance of interest, and is transported to and from the sampling location, and carried through the entire sampling and analytical process.

Equipment and tools used to obtain soil samples were cleaned with Alconox© and rinsed with distilled water before the collection of each sample. Technicians wore dedicated nitrile gloves, which were replaced for each sample.

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6.0 Review and Evaluation

6.1 Geology

The physiography and geology of the Site has been discussed previously in Section 3.1 and a detailed description of the subsurface soils can be found on the borehole logs in Appendix B. These logs present detailed descriptions of the soils and their associated characteristics to the maximum depth of investigation. Borehole and monitoring well locations are shown on Figure 4.

The stratigraphy consisted primarily of topsoil (0 to 0.23 mbgs), clayey silt (0.23 to 1.22 mbgs), silty sand (0 to 1.5 mbgs), silt and sand (0.61 to 1.52 mbgs), fill (1.5 to 2.29 mbgs), and silty clay with trace sand and gravel (0 to 7.3 mbgs). Bedrock was not encountered to the maximum depth of investigation (7.3 mbgs).

A review of Ontario Geological Survey (OGS) Bedrock Topography and overburden thickness map (OGS, 2007) indicated depth to bedrock at surrounding properties ranges between 9.14 to 11.43 mbgs towards the northeast and 10.64 to 15.48 mbgs towards the southeast. Bedrock outcrops are mapped northwest of Site on the north side of highway 401. Water well records within 500 m of the Site encountered red shale bedrock at the maximum depths of investigation (6.1 to 33 mbgs) approximately 100 m north of Site. Top of bedrock was not encountered on-site to the maximum depth of the investigation (7.3 mbgs), as such, it is anticipated to be deeper than 7.3 mbgs, however depth to bedrock may change along the northwestern portion of Site.

6.2 Groundwater: Elevations and Flow Direction

To determine the relative groundwater elevation, the horizontal gradient, and the groundwater flow direction, water level measurements were recorded on December 20, 2022, January 5, 2023, February 1, 2023, and February 27, 2023, as summarized in Table 1. Based on the groundwater elevation data collected on January 5, 2023, groundwater flow was to the southeast as shown on Figure 4.

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6.3 Groundwater: Hydraulic Gradients and Conductivity

The average horizontal hydraulic gradient was 0.02 m/m based on groundwater levels measured on January 5, 2023.

Based on the predominant soil type in the saturated zone (silty clay with trace sand) observed during the field investigation, subsurface hydraulic conductivity in the shallow water-bearing layer likely ranges from 1×10^{-9} to 1×10^{-3} m/s (Cherry & Freeze, 1979).

6.4 Coarse Soil Texture

Grain size analysis was not completed for soil samples collected at the Site, as such, SCS for coarse textured soil were considered appropriate.

6.5 Soil: Field Screening

Refer to the detailed borehole logs included with this report as Appendix B for the results of field soil screening. Detectable OV concentrations were observed at BH104 (0.0 to 1.83 mbgs), BH107 (0.0 to 0.6 mbgs), BH108 (1.52 to 6.70 mbgs), BH101 (1.52 to 2.13 mbgs), and BH111 (1.52 to 5.94 mbgs). The highest concentration of OV measured was 110 ppm at BH111 (1.52 to 2.13 mbgs). No measurable CSV concentrations were detected in the screening soil samples.

6.6 Soil Quality

A general discussion of the submission and analysis of soil samples obtained during the subsurface investigation was presented Section 5.9.

- Samples were submitted for analysis of one or more of the following: BTEX, PHCs, VOCs, PAHs, PCBs, OCs, metals, hydride-forming metals, Hg, EC, SAR, and pH. Soil analysis results are presented in Table 4. Laboratory Certificates of Analysis are included in Appendix C. The soil results are presented on Figure 5 to Figure 11.

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6.6.1 BTEX/PHCs

Fourteen soil samples were submitted for analysis of BTEX/PHCs. Concentrations of PHC (F2) exceeded the Table 1 SCS at BH104 (2.2 to 2.9 mbgs) and BH108 (2.3 to 2.9 mbgs). The concentration of toluene exceeded the Table 1 SCS at BH110 (1.5 to 2.1 mbgs); however, a duplicate soil sample was collected at this location and the average of the submitted soil sample and duplicate soil sample met the Table 1 SCS. All soil samples met the Table 6 SCS for the parameters analyzed. Soil results for BTEX and PHCs compared to Table 1 SCS are presented on Figure 5 and Figure 6, respectively.

6.6.2 VOCs

Six soil samples were submitted for analysis of VOCs. Concentrations of acetone exceeded the Table 1 SCS at BH107 (0.0 to 0.6 mbgs), BH110 (1.5 to 2.1 mbgs), and BH111 (2.3 to 2.9 mbgs). All soil samples met the Table 6 SCS for the parameters analyzed. Soil results for VOCs compared to Table 1 SCS are shown on Figure 7.

6.6.3 PAHs

Twelve soil samples were submitted for analysis of PAHs. Concentrations of PAHs were less than the Table 1 SCS and Table 6 SCS in the analyzed soil samples, as shown on Figure 8.

6.6.4 Metals, Hydride-Forming Metals, and ORPs

The following soil samples were submitted for analysis, excluding quality control samples:

- Twelve samples for metals and hydride-forming metals
- Seven samples for EC and SAR
- Two samples for Hg
- Five samples for pH

Concentrations of metals, hydride-forming metals, SAR, and Hg were less than the Table 1 SCS and Table 6 SCS in the analyzed soil samples. Concentrations of EC exceeded the Table

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1 SCS and Table 6 SCS in soil collected from BH112 (0.0 to 0.6 mbgs) and BH113 (0.0 to 0.6 mbgs), as shown on Figure 9.

On-site soil pH was within the acceptable ranges for surface (≤1.5 mbgs) and sub-surface (>1.5 mbgs) soil.

Soil results for metals, hydride-forming metals, Hg, EC, and SAR compared to Table 1 SCS are shown on Figure 9.Figure 7

6.6.5 PCBs

Two soil sample were submitted for analysis of PCBs. Concentrations of PCBs were less than the Table 1 SCS and Table 6 SCS, as shown on Figure 10.

6.6.6 OC Pesticides

Two soil sample was submitted for analysis of OCs. Concentrations of OCs were less than the Table 1 SCS and Table 6 SCS, as shown on Figure 11.

6.7 Sediment Quality

A general discussion of the submission and analysis of sediment samples obtained during the subsurface investigation was presented Section 5.9. Sediment samples were collected from Indian Creek in the east portion of the Site.

- Samples were submitted for analysis of one or more of the following: BTEX, PHCs, PAHs, metals, hydride-forming metals, HWS-B, CrVI, and Hg. Sediment analysis results are presented in Table 6. Laboratory Certificates of Analysis are included in Appendix C. The sediment sampling locations are shown on Figure 4, with results presented on Figure 12 and Figure 14.

6.7.1 BTEX/PHCs

Seven sediment samples were submitted for analysis of BTEX/PHCs. Concentrations of BTEX/PHCs were less than the Table 1 SCS in the analyzed sediment samples, as shown on Figure 12.

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6.7.2 PAHs

Seven sediment samples were submitted for analysis of PAHs. Concentrations of PAHs were less than the Table 1 SCS in the analyzed sediment samples, as shown on Figure 13.

6.7.3 Metals, Hydride-Forming Metals, and ORPs

Seven sediment samples were submitted for analysis of metals and hydride-forming metals. Concentrations of metals and hydride-forming metals exceeded the Table 1 SCS in the analyzed sediment samples from each sediment sampling location (SED101, SED102, SED103, and SED104), as shown on Figure 14.

6.8 Groundwater Quality

A general discussion of the submission and analysis of groundwater samples obtained during the investigation was presented in Section 5.9.

Groundwater samples were collected from nine monitoring wells (BH101, BH102, BH103, BH104, BH105, BH106, BH107, BH108, BH111). Samples were submitted for analysis of one or more of the following: BTEX, PHCs, VOCs, PAHs, PCBs, OCs, metals, hydride-forming metals, Hg, and sodium. Groundwater analysis results are presented in Table 5. Laboratory Certificates of Analysis are included in Appendix C. The groundwater results are presented on Figure 15 to Figure 20.

6.8.1 BTEX/PHCs

Nine groundwater samples were submitted for analysis of BTEX/PHCs. Concentrations of BTEX/PHCs were less than the Table 1 SCS and Table 6 SCS in the analyzed groundwater samples, as shown on Figure 15.

6.8.2 VOCs

Six groundwater samples were submitted for analysis of VOCs. Concentrations of VOCs were less than the Table 1 SCS and Table 6 SCS in the analyzed groundwater samples, as shown on Figure 16.

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6.8.3 PAHs

Nine groundwater samples were submitted for analysis of PAHs. Concentrations of PAHs were less than the Table 1 SCS and Table 6 SCS in the analyzed groundwater samples, as shown on Figure 17.

6.8.4 Metals, Hydride-Forming Metals, and ORPs

Eight groundwater samples were submitted for analysis of metals, hydride-forming metals, and sodium. One groundwater sample was submitted for analysis of Hg.

Concentrations of one or more metals and hydride-forming metals exceeded the Table 1 SCSand/or Tabel 6 SCS in the analyzed groundwater samples from BH101, BH102, BH103, BH104, BH106, and BH111. Concentrations of sodium exceeded the Table 1 SCS and Table 6 SCS in groundwater at BH111.

Groundwater results for metals, hydride-forming metals, and ORPs compared to the Table 1 SCS are shown on Figure 18.

6.8.5 PCBs

Two groundwater samples were submitted for analysis of PCBs. Concentrations of PCBs were less than the Table 1 SCS and Table 6 SCS, as shown on Figure 19.

6.8.6 OC Pesticides

Two groundwater samples were submitted for analysis of OCs. Concentrations of OCs were less than the Table 1 SCS and Table 6 SCS, as shown on Figure 20.

6.9 Surface Water Quality

A general discussion of the submission and analysis of surface water samples obtained during the subsurface investigation was presented Section 5.9. Surface water samples were collected from Indian Creek in the east portion of the Site.

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- Samples were submitted for analysis of one or more of the following: BTEX/PHCs, PAHs, metals, hydride-forming metals, Hg, CrVI, CN-, sodium, chloride, and hardness. Surface water analysis results are presented in Table 7. Laboratory Certificates of Analysis are included in Appendix C. The surface water sampling locations are shown on Figure 4, with results presented on Figure 21 to Figure 23.

6.9.1 BTEX/PHCs

Seven surface water samples were submitted for analysis of BTEX/PHCs. Concentrations of BTEX/PHCs were less than the PWQO and APV in the analyzed surface water samples as shown on Figure 21.

6.9.2 PAHs

Seven surface water samples were submitted for analysis of PAHs. Concentrations of PAHs were less than the PWQO and APV in the analyzed surface water, as shown on Figure 22.

6.9.3 Metals, Hydride-Forming Metals, and ORPs

Seven surface water samples were submitted for analysis of metals, hydride-forming metals, CrVI, CN-, and Hg. Concentrations of one or more metals and hydride-forming metals exceeded the PWQO and/or APV in surface water samples collected at each surface water sampling locations (SW101, SW102, SW103, and SW104).

Concentrations of the sodium and chloride exceeded the APV in surface water samples collected at each surface water sampling locations (SW101, SW102, SW103, and SW104).

Surface water results for metals, hydride-forming metals, and ORPs are shown on Figure 23.

6.10 Quality Assurance and Quality Control

Duplicate soil, groundwater, sediment, and surface water samples were collected for each parameter group. Where analytical parameters were detected in both the parent and the duplicate samples at more than five times the detection limits, relative percent difference (RPD) was calculated to assess the precision of the analytical data. The results were

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evaluated based on a data quality objectives (DQOs) of 50% for soil and 30% for water. RPD was calculated as follows:

$$RPD(\%) = \frac{|x_1 - x_2|}{x_m} \times 100\%$$

Where: x_1 = parent sample result

x_2 = duplicate sample result

x_m = arithmetic mean of initial and duplicate sample results

RPD is more sensitive to low concentrations; as such, RPDs were not calculated where the parameter concentration in the parent and/or duplicate sample was less than five times the laboratory reportable detection limit (RDL).

RPDs met the DQO for soil, groundwater, sediment, and surface water. Overall, the duplicate samples match very closely with the parent samples. Accordingly, the soil and groundwater analysis results were considered acceptable and indicated that the analytical data were suitable for use in evaluating soil and groundwater quality at the Site.

The trip blank sample was submitted for analysis of VOCs with the groundwater sampling event to determine whether VOCs may have been introduced into a sample during transport to and from the laboratory. The analysis results indicated that VOCs were not present at concentrations greater than the laboratory RDLs in the trip blank.

Certificates of Analysis received for each submitted sample are included in Appendix C. All laboratory Certificates of Analysis pursuant to clause 47 (2) (b) of O.Reg. 153/04 comply with subsection 47(3) of the regulation.

Based on the results of the QA/QC program, the analytical results discussed herein can be interpreted with confidence.

6.11 Phase Two Conceptual Site Model

As per Table 1 of Schedule E of O.Reg. 153/04, a CSM is required for a Phase Two ESA to assist the QP in illustrating the results of the Phase Two ESA, demonstrating the current

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condition of the Phase Two Property, or where remedial actions have been undertaken, the condition of the Phase Two Property before the remedial actions were undertaken.

The following sections describe in detail the Phase Two CSM and provide the requisite narrative that assists in describing the attached figures.

6.11.1 Site Description and Ownership

The 49.17 ha Site is on the south side of Highway 403 and extends from King Road to the Aldershot Go Station parking lot in Burlington, Ontario. The legal description of the Site is Parcel 2-2, Sec EF1; Part of Lots 2 and 3, Concession 1, Part 1 Registered Plan 20R11103; Burlington/East Flamborough Township (PIN 07115-0003(LT)) and Part of Lots 3, 4 and 5, Concession 1 East Flamborough, Part 1 Registered Plan 20R22626, City of Burlington (PIN 07115-0028(LT)). The PINs are 07115-0003(LT) and 07115-0028(LT). The UTM coordinates for the centroid for the Site are Zone 17 T, 593113 m east and 4797105 m north. The Site is bound by Highway 403 to the north followed by commercial, industrial, and institutional properties, King Road to the east followed by commercial and industrial properties, a CN rail line and a mixed commercial/industrial property to the southeast, and Aldershot GO Station to the west.

6.11.2 Potentially Contaminating Activities

Based on the records review, site reconnaissance, and interviews, 35 PCAs (5 on-site and 30 off-site) were identified within the Phase One Study Area. Refer to Table 1 for further description of the identified PCAs and Figure 2 for locations of the identified PCAs.

The following PCAs contribute to APECs:

PCA 1 – On-site: fill material and brick debris on the central and northeast portion of the Site; #30 Importation of Fill Material of Unknown Quality

PCA 2 – On-site: Inferred brick manufacturing at the central portion of the Site associated with Burlington Pressed Brick & Terra Cotta; N/A

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PCA 3 – On-site: Inferred sewer pipe manufacturing at the central portion of the Site associated with National Sewer Pipe Company; N/A

PCA 4 – On-site: former rail spur on the central/eastern portion of the Site; #46 Rail Yards, Tracks and Spurs

PCA 5 – On-site: historical orchard observed in the 1934 and 1961 aerial photographs at the southwest portion of the Site; #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 6 – Off-site: Commercial automotive repair and towing operations at 1231 King Road; #10 – Commercial Autobody Shops

PCA 7 – Off-site: Diesel fuel spill from a fire/explosion at 1231 King Road; N/A

PCA 8 – Off-site: Window manufacturing at 1217 King Road; N/A

PCA 9 – Off-site: Oil runoff from a fire/explosion at 1201 King Road; N/A

PCA 10 – Off-site: Coolant and transformer leak at 1187 King Road; N/A

PCA 11 – Off-site: Tar dumping at 1160 King Road; N/A

PCA 12 – Off-site: Use of salt for deicing on off-site roads and sidewalks (Highway 403 and King Road); N/A

The following PCAs do not contribute to APECs:

PCA 13 – Off-site: Historical orchard on the adjacent lands in the 1934 and 1961 aerial photographs; #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 14 – Off-site: Commercial automotive repair operations at 441 North Service Road; #10 – Commercial Autobody Shops

PCA 15 – Off-site: Two historical landfill sites located approximately 120 m northwest of the Site with inferred landfilling operations located over 400 m northwest of the Site. RSC identified groundwater impacts at 441 North Service Road; #58 – Waste Disposal and Waste

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Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners

PCA 16 – Off-site: Commercial automotive repair operations at 1163 King Road; #10 – Commercial Autobody Shops

PCA 17 – Off-site: Metal products manufacturing at 1163 King Road; #34 – Metal Fabrication

PCA 18 – Off-site: Electronics manufacturing at 1163 King Road; #19 – Electronic and Computer Equipment Manufacturing

PCA 19 – Off-site: Cabinet, countertop manufacturing and furniture building at 1163 King Road; N/A

PCA 20 – Off-site: Ontario Hydro substation at 1225 King Road; #18 – Electricity Generation, Transformation and Power Stations

PCA 21 – Off-site: Greenhouse operations at 1102 King Road; #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 22 – Off-site: Commercial automotive repair operations at 1102 King Road; #10 – Commercial Autobody Shops

PCA 23 – Off-site: Window manufacturing at 617 Enfield Road; N/A

PCA 24 – Off-site: Metal products manufacturing at 617 Enfield Road; #34 – Metal Fabrication

PCA 25 – Off-site: Metal products manufacturing at 483 Enfield Road; #34 – Metal Fabrication

PCA 26 – Off-site: Printing operations at 483 Enfield Road; #31 – Ink Manufacturing, Process maying and Bulk Storage

PCA 27 – Off-site: Printing operations at 463 Enfield Road; #31 – Ink Manufacturing, Process maying and Bulk Storage

PCA 28 – Off-site: Electronic equipment manufacturing at 435 Enfield Road; #19 – Electronic and Computer Equipment Manufacturing

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PCA 29 – Off-site: Refrigerator manufacturing at 425 Enfield Road; #34 – Metal Fabrication

PCA 30 – Off-site: Commercial automotive repair operations at 425 Enfield Road; #10 – Commercial Autobody Shops

PCA 31 – Off-site: Printing operations at 419 Enfield Road; #31 – Ink Manufacturing, Process maying and Bulk Storage

PCA 32 – Off-site: Metal products manufacturing at 419 Enfield Road; #34 – Metal Fabrication

PCA 33 – Off-site: Furniture manufacturing at 419 Enfield Road; N/A

PCA 34 – Off-site: Greenhouse operations at 1135 Gallagher Road; #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 35 – Off-site: railway tracks located approximately 90 m southeast; #46 - Rail Yards, Tracks and Spurs

The qualified person has determined that a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice on immediately adjacent properties to the Site. As such, the exemption set out in paragraph 1 of section 49.1 of O.Reg. 153/04 will be relied upon. The exemptions set out in paragraphs 1.1, 2 and 3 of section 49.1 of O.Reg. 153/04 will not be relied upon.

6.11.3 Areas of Potential Environmental Concern

As required by O.Reg. 153/04, all on-site PCAs contributed to an APEC. Based on a review of potential to result in contamination at the Site, seven of the off-site PCAs contributed to twelve APECs. Refer to Table 2 for APEC details and Figure 3 for APEC locations.

APEC 1 – Central and northeast portion of the Site, east of Falcon Creek, associated with PCA 1, fill of unknown quality. COPCs include PHCs, BTEX, PAHs, metals, hydride-forming metals, and Hg.

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APEC 2 – Central and northeast portion of the Site, northeast of Falcon Creek, associated with PCA 2, historical brick manufacturing. COPCs include PHCs, BTEX, PAHs, metals, and hydride-forming metals.

APEC 3 – Central and northeast portion of the Site, northeast of Falcon Creek, associated with PCA 3, historical sewer pipe manufacturing. COPCs include PHCs, BTEX, PAHs, metals, and hydride-forming metals.

APEC 4 – Central portion of the Site, east of Falcon Creek, associated with PCA 4, historical rail spur. COPCs include PHCs, BTEX, PAHs, metals, and hydride-forming metals.

APEC 5 – Southwest portion of the Site, associated with PCA 5, historical on-site orchard. COPCs include metals, hydride-forming metals, Hg, and OCs.

APEC 6 – Northeast property boundary, associated with PCA 6, neighbouring automobile repair facility. COPCs include PHCs, BTEX, VOCs, PAHs, metals, hydride-forming metals, and Hg.

APEC 7 – Northeast property boundary, associated with PCA 7, historical spills. COPCs include PHCs, BTEX, and PAHs.

APEC 8 – Northeast property boundary, associated with PCA 8, historical off-site manufacturing. COPCs include PHCs, BTEX, VOCs, metals, and hydride-forming metals.

APEC 9 – Northeast property boundary, associated with PCA 9, historical spills. COPCs include PHCs, BTEX, VOCs, and PAHs.

APEC 10 – Northeast property boundary, associated with PCA 10, historical spills. COPCs include PHCs, BTEX, and PCBs.

APEC 11 – Northeast/east property boundary, associated with PCA 11, historical spills. COPCs include PHCs, BTEX, VOCs, PAHs, metals, and hydride-forming metals.

APEC 12 – Northwest, northeast and east property boundary, associated with PCA 12, salt use for de-icing. COPCs include EC, SAR, sodium, and chloride.

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6.11.4 Subsurface Structures and Utilities

No buildings or structures are present on the Site.

No underground utilities were identified on, in, or under the Site. Contaminant distribution and transport may be influenced by the presence of utility trenches that were historically present on the Site. Water level data reviewed for the Site indicates that the water table is within a silty or clayey till layer, which would likely have lower hydraulic conductivity when compared to trench backfill. Therefore, it is possible that preferential migration of contaminants would occur via historical utility trenches.

6.11.5 Stratigraphy

The stratigraphy consisted primarily of topsoil (0 to 0.23 mbgs), clayey silt (0.23 to 1.22 mbgs), silty sand (0 to 1.5 mbgs), silt and sand (0.61 to 1.52 mbgs), fill (1.5 to 2.29 mbgs), and silty clay with trace sand and gravel (0 to 7.3 mbgs). Bedrock was not encountered to the maximum depth of investigation (7.3 mbgs).

6.11.6 Hydrogeological Characteristics and Groundwater Elevations

Three bodies of water are present at the Site: Indian Creek, about 250 m west of the Site's eastern border, which flows southeasterly; Falcon Creek, which flows southeasterly through the centre of the Site; and a pond and tributary of Grindstone Creek on the west side of the Site that flow southwesterly. Indian Creek is considered a permanent water body, while Falcon Creek and the tributary of Grindstone Creek are non-permanent. As such, the area being investigated is within 30 m of a water body as defined in O.Reg. 153/04. Therefore, Section 43.1 of O.Reg. 153/04 applies to the Site.

To determine the relative groundwater elevation, the horizontal gradient, and the groundwater flow direction, water level measurements were recorded on December 20, 2022, January 5, 2023, February 1, 2023, and February 27, 2023, as summarized in Table 1. Based on the groundwater elevation data collected on January 5, 2023, groundwater flow was to the southeast, as shown on Figure 4.

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The average horizontal hydraulic gradient was 0.02 m/m based on groundwater levels measured on January 5, 2023.

Based on the predominant soil type in the saturated zone (silty clay with trace sand) observed during the field investigation, subsurface hydraulic conductivity in the shallow water-bearing layer likely ranges from 1×10^{-9} to 1×10^{-3} m/s (Cherry & Freeze, 1979).

6.11.7 Applicable Site Condition Standards

The *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* (MOE, 2011a) were used to determine the applicable SCS for the Site. The following site characteristics were considered when choosing which standards should be applied:

- The proposed future use of the Site is mixed residential, community, commercial, industrial, parkland, and institutional.
- Three bodies of water are present at the Site: Indian Creek, about 250 m west of the Site's eastern border, which flows southeasterly; Falcon Creek, which flows southeasterly through the centre of the Site; and a pond and tributary of Grindstone Creek on the west side of the Site that flow southwesterly. Indian Creek is considered a permanent water body, while Falcon Creek and the tributary of Grindstone Creek are non-permanent. As such, the area being investigated is within 30 m of a water body as defined in O.Reg. 153/04. Therefore, Section 43.1 of O.Reg. 153/04 applies to the Site.
- For groundwater at a property to be considered non-potable, all properties within 250 m of the property must be supplied by a municipal drinking water system that does not obtain its water from a groundwater source. The Site is located in an area that is supplied by municipal water supply. The City of Burlington relies on Lake Ontario for its water supply. Consent to use non-potable groundwater SCS was not provided from the City of Burlington, as such, potable groundwater SCS were considered applicable for the Site.
- A Natural Heritage Areas map (MNRF, 2024), the Official Plan of the Region of Halton (Halton Region, 2022) and the Official Plan of the City of Burlington (City of Burlington,

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2022) were reviewed. A Regional Natural Heritage System is present at the Site according to the Region of Halton Official Plan. Floodplain areas and watercourses, such as the Indian Creek Floodplain and Falcon Creek, are protected under both the Region of Halton Official Plan and the City of Burlington Official Plan. No other Ministry of Natural Resources heritage sites, or areas of natural and scientific interest were identified within 30 m of the Site. Additionally, the Site did not include an area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan, or property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan applies. An environmental impact assessment (Savanta, 2015), concluded that the Site contains natural forest communities, warmwater fisheries (Falcon Creek, Indian Creek and Grindstone Creek), and the presence of special concern species as well as provincially and locally rare flora and fauna. Additionally, habitat of endangered and threatened species, fish habitat, significant valleylands, and areas of significant woodland and significant wildlife habitat occur on the Site. As such, the Site is considered environmentally sensitive as per Section 41 of O.Reg. 153/04.

- The minimum depth to groundwater at the Site was 0.01 mbgs on February 27, 2023.
- No properties in the Phase One Study Area have a well used or intended for use as a source of water for human consumption or agriculture.
- The stratigraphy consisted primarily of topsoil (0 to 0.23 mbgs), clayey silt (0.23 to 1.22 mbgs), silty sand (0 to 1.5 mbgs), silt and sand (0.61 to 1.52 mbgs), fill (1.5 to 2.29 mbgs), and silty clay with trace sand and gravel (0 to 7.3 mbgs). Bedrock was not encountered to the maximum depth of investigation (7.3 mbgs). Grain size analysis was not completed for soil samples collected at the Site, as such, SCS for coarse textured soil were considered appropriate.

Based on the above information, the applicable SCS for the Site were the Table 1 *Full Depth Background Site Condition Standards.* All property uses (residential, parkland, institutional, industrial, commercial, and community) were selected to determine concentration exceedances for the analyzed parameters in soil, groundwater, and sediment.

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It is noted that the Site may be divided into several RSC parcels in the future which may or may not be within 30 m of an area of natural and scientific interest. As such, comparison of soil and groundwater results to SCS other than Table 1 SCS was considered for future RSC parcels that may not be considered environmentally sensitive as per Section 41 of O.Reg. 153/04. Given the site characteristics detailed above and the presence of groundwater at a depth as shallow as 0.01 mbgs, the SCS for shallow soil were considered applicable to account for potential decreased biodegradation, groundwater dilution, and increased vapour to indoor air migration. The potential for enhanced vapour migration from shallow groundwater was assessed by screening the soil and groundwater results against the Table 6 *Generic SCS for Shallow Soils in a Potable Ground Water Condition* for residential, parkland, and institutional property use.

The surface water samples were compared to the PWQO and the Ministry APV for identification of exceedances of COPCs (MOE, 2011b).

6.11.8 Contaminant Identification and Distribution

Site features/sampling locations and the interpreted groundwater flow direction are shown on Figure 4. Soil, groundwater, sediment, and surface water samples were submitted to analysis for select COPCs, including: BTEX, PHCs, VOCs, PAHs, PCBs, OCs, metals, hydride-forming metals, Hg, EC, SAR, sodium, and chloride.

6.11.8.1 Soil

Concentrations of PHC (F2) exceeded the Table 1 SCS in soil collected at BH104 (2.2 to 2.9 mbgs) and BH108 (2.3 to 2.9 mbgs). Concentrations of toluene exceeded the Table 1 SCS in soil collected at BH110 (1.5 to 2.1 mbgs). All soil samples met the Table 6 SCS for the parameters analyzed. Soil results for BTEX and PHCs compared to Table 1 SCS are presented on Figure 5 and Figure 6, respectively.

Concentrations of acetone exceeded the Table 1 SCS in soil collected at BH107 (0.0 to 0.6 mbgs), BH110 (1.5 to 2.1 mbgs), and BH111 (2.3 to 2.9 mbgs). All soil samples met the Table

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6 SCS for the parameters analyzed. Soil results for VOCs compared to Table 1 SCS are shown on Figure 7.

Concentrations of EC exceeded the Table 1 SCS and Table 6 SCS in soil collected at BH112 (0.0 to 0.6 mbgs) and BH113 (0.0 to 0.6 mbgs), as shown on Figure 9.

6.11.8.2 Sediment

Sediment samples were collected from Indian Creek in the east portion of the Site. Concentrations of metals and hydride-forming metals exceeded the Table 1 SCS in the analyzed sediment samples from each sediment sampling location (SED101, SED102, SED103, and SED104), as shown on Figure 14.

6.11.8.3 Groundwater

Concentrations of metals and hydride-forming metals exceeded the Table 1 SCS in the analyzed groundwater samples from BH101, BH102, BH103, BH104, BH106, and BH111. Concentrations of metals and hydride-forming metals also exceeded the Table 6 SCS in the analyzed groundwater samples from BH103, BH106, and BH111. Concentrations of sodium exceeded the Table 1 SCS and Table 6 SCS in groundwater at BH111. Groundwater results for metals, hydride-forming metals, and ORPs compared to the Table 1 SCS are shown on Figure 18.

6.11.8.4 Surface Water

Surface water samples were collected from Indian Creek in the east portion of the Site. Concentrations of metals and hydride-forming metals exceeded the PWQO in surface water samples collected at each surface water sampling locations (SW101, SW102, SW103, and SW104). Metals and hydride-forming metals also exceeded the APV in surface water samples collected from SW101, SW102, and SW103.

Concentrations of sodium and chloride exceeded the APV in surface water samples collected at each surface water sampling locations (SW101, SW102, SW103, and SW104).

Surface water results for metals, hydride-forming metals, and ORPs are shown on Figure 23.

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6.11.9 Contaminant Migration and Transport

Indian Creek is directed through a culvert on the south side of the Site. On-site creeks, specifically Indian Creek, likely influence contaminant distribution and transport.

No underground utilities were identified on, in, or under the Site. Contaminant distribution and transport may be influenced by the presence of utility trenches that were historically present on the Site. Water level data reviewed for the Site indicates that the water table is within a silty or clayey till layer, which would likely have lower hydraulic conductivity when compared to trench backfill. Therefore, it is possible that preferential migration of contaminants would occur via historical utility trenches.

No specific climatic or meteorological conditions were observed that may influence the distribution or migration of contaminants.

6.11.10 Exposure Pathways and Receptors

Based on the site characterization, contaminants of concern (COCs) were identified in soil, groundwater, and sediment at concentrations exceeding the Table 1 and/or Table 6 SCS. In addition, exceedances of appropriate screening criteria (PWQO and Ministry APV) were identified for parameters in on-site surface water. Exposure pathways for human and ecological receptors have been identified based on a review of site characteristics such as soil profile, depth to groundwater, contaminant type and distribution, and the proposed property use (residential, community, commercial, industrial, parkland, and institutional). These exposure pathways and receptors are discussed in the following sections.

6.11.11 Human Health Conceptual Site Model

Potential human health exposure pathways for contaminants located within the soil, groundwater, sediment, and surface water at the Site include:

- Incidental Ingestion
- Dermal Contact

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- Inhalation of Airborne Particles
- Inhalation of Volatile Substances: Soil-to-Indoor-Air, Groundwater-to-Indoor-Air, Soil-to-Outdoor-Air and Groundwater-to-Outdoor-Air

Potential on-site receptors include:

- Residential habitants
- Indoor workers
- Outdoor maintenance workers
- Subsurface workers
- Visitors and trespassers

In addition, potential off-site receptors may be exposed via inhalation of airborne particles and potentially via migration of groundwater.

The human health CSM is presented on Figure 24.

6.11.12 Ecological Health Conceptual Site Model

The ecological CSM describes the potential exposure pathways that may be present for various ecological receptors at the Site.

Ecological receptors at the Site are assumed to have direct and indirect contact with surficial soil and shallow groundwater, as well as with on-site surface water and sediment. The following exposure pathways are considered applicable for the potential on-site ecological receptors:

- Direct contact with soil, groundwater, surface water, and sediment
- Ingestion of soil, groundwater, surface water, and sediment
- Ingestion of impacted food

Based on the future mixed land use for the Site, possible ecological receptors are:

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- Terrestrial soil invertebrates and plants
- Birds and mammals
- Aquatic biota

The ecological CSM is presented on Figure 25.

6.11.13 Location of Buildings and Structures

No buildings or structures exist on the Site.

The Client intends to redevelop the Site for mixed property uses (residential, community, commercial, industrial, parkland, and institutional), which includes the construction of roadways, parking lots, landscaping, utility servicing, and several buildings.

6.11.14 Areas of Contamination on the Property

Concentrations of PHC (F2) exceeded the Table 1 SCS at BH104 (2.2 to 2.9 mbgs) along the east property boundary within APEC 1 and 11. Concentrations of PHC (F2) also exceeded the Table 1 SCS at BH108 (2.3 to 2.9 mbgs) in the central portion of the Site within APEC 1 and 3. Concentrations of toluene exceeded the Table 1 SCS at BH110 (1.5 to 2.1 mbgs) in the central portion of the Site along the south property boundary within APEC 1 and 4.

Concentrations of acetone exceeded the Table 1 SCS in soil collected at BH107 (0.0 to 0.6 mbgs) within APEC 11, BH110 (1.5 to 2.1 mbgs) within APEC 1 and 4, and BH111 (2.3 to 2.9 mbgs) within APEC 1, 2, and 3.

Concentrations of EC exceeded the Table 1 SCS and Table 6 SCS in soil collected from BH112 (0.0 to 0.6 mbgs) and BH113 (0.0 to 0.6 mbgs) within APEC 1.

Concentrations of metals and hydride-forming metals exceeded the Table 1 SCS in the analyzed sediment samples from each sediment sampling location (SED101, SED102, SED103, and SED104) within Indian Creek, the on-site surface water body in the east portion of the Site. Concentrations of metals and hydride-forming metals exceeded the PWQO in surface water samples collected at each surface water sampling locations (SW101, SW102,

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SW103, and SW104) within Indian Creek. Metals and hydride-forming metals also exceeded the APV in surface water samples collected from SW101, SW102, and SW103. Concentrations of the sodium and chloride also exceeded the APV in surface water samples collected at each surface water sampling locations (SW101, SW102, SW103, and SW104). SED101/SW101 are located at the downstream location of Indian Creek within APEC 1 and APEC 11. SED102/SW102 and SED103/SW103 are located in the central portion of the Site within APEC 1. SED104/SW104 is located at the upstream location of Indian Creek within APEC 1 and APEC 3.

Concentrations of metals and hydride-forming metals exceeded the Table 1 SCS in the analyzed groundwater samples from BH101, BH102, BH103, BH104, BH106, and BH111. Concentrations of metals and hydride-forming metals also exceeded the Table 6 SCS in the analyzed groundwater samples from BH103, BH106, and BH111. Concentrations of sodium exceeded the Table 1 SCS and Table 6 SCS in groundwater at BH111. Monitoring well locations with reported groundwater impacts are located in the central portion of the Site within APEC 1, 2, 3, and 4.

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7.0 Conclusions

Conclusions regarding the current environmental conditions at the Site are based solely on the results of the Phase One ESA and this Phase Two ESA.

7.1 Environmental Conditions

A Phase Two ESA work program was developed to investigate select COPCs (BTEX/PHCs, VOCs, PAHs, PCBs, metals, hydride-forming metals, Hg, EC, SAR, sodium, and chloride) in soil, groundwater, sediment, and surface water. The Phase Two ESA included 13 boreholes, 9 of which were completed as groundwater monitoring wells. In addition, sediment and surface water samples were collected from the on-site surface water body at four locations.

Concentrations of select COPCs were greater than the Table 1 SCS in all soil, groundwater, and sediment samples. Concentrations of COPCs were greater than the applicable surface water criteria in samples collected from the on-site surface water body. As such, it is Cambium's opinion that an RSC cannot be filed on the basis of the Phase Two ESA alone. It is acknowledged that additional assessment will be required prior to filing an RSC, which may include one or more of the following: delineation, remediation, and/or Risk Assessment in accordance with O.Reg. 153/04.

In the event that the Site is subdivided, the southwest portion of the Site, historically used for agricultural purposes, may not require an RSC.

When no longer required, Cambium recommends all monitoring wells should be abandoned as per the requirements of R.R.O. 1990, Regulation 903 – Wells.

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7.2 Signatures

This Phase Two ESA was completed by Derik Tam, P.Eng.,QP_{ESA}, as per O.Reg. 153/04, as amended. Information presented in this report is true and accurate to the best of the assessors' knowledge.

Respectfully submitted,

Cambium Inc.

DocuSigned by:
0E6DC1F525AE479...
Patrick Garrett, M.Sc., C.Chem.
Project Manager/Risk Assessor

DocuSigned by:
9D273995C602401...
Derik Tam, P.Eng., QP_{ESA}
Project Manager

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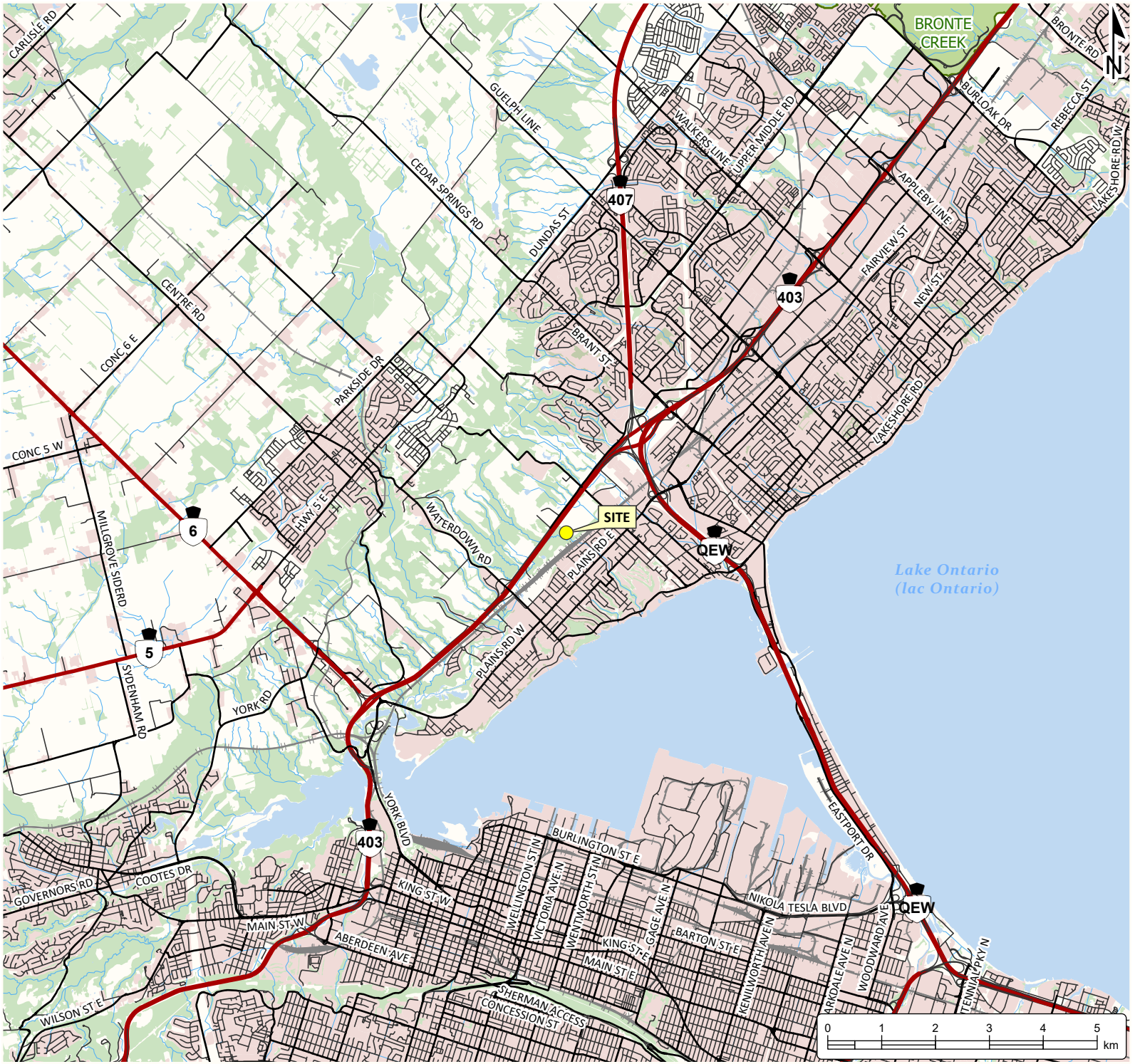
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Appended Figures

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PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Highway
- Major Road
- Minor Road
- Railway
- Watercourse
- Water Area
- Provincial Park
- Wooded Area
- Built Up Area

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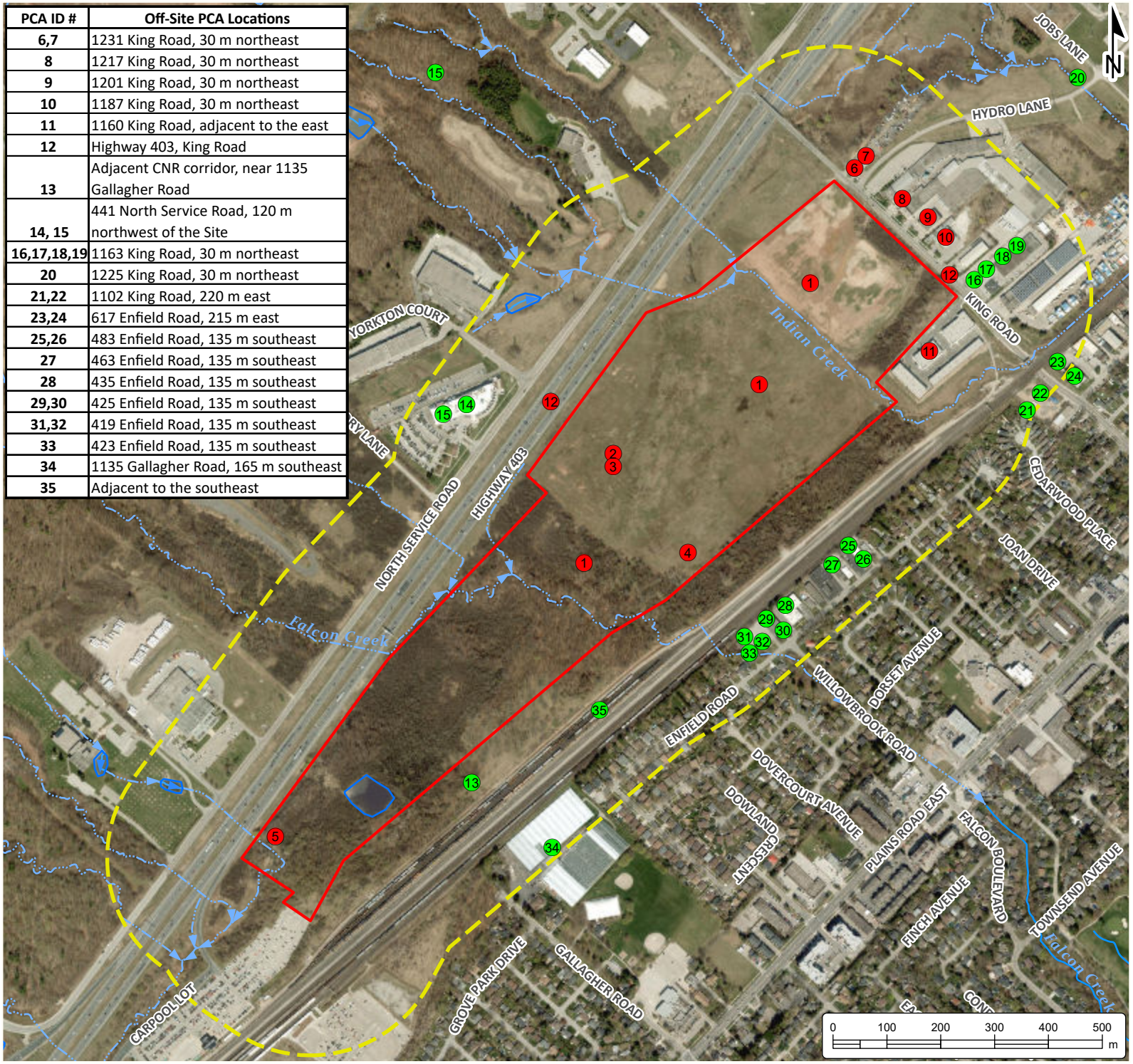
SITE LOCATION PLAN

Project No.: 14455-002		Date: March 2024 Rev.:	
Scale: 1:100,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: SN	Figure:	1

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PCA ID #	Off-Site PCA Locations
6,7	1231 King Road, 30 m northeast
8	1217 King Road, 30 m northeast
9	1201 King Road, 30 m northeast
10	1187 King Road, 30 m northeast
11	1160 King Road, adjacent to the east
12	Highway 403, King Road
13	Adjacent CNR corridor, near 1135 Gallagher Road
14, 15	441 North Service Road, 120 m northwest of the Site
16,17,18,19	1163 King Road, 30 m northeast
20	1225 King Road, 30 m northeast
21,22	1102 King Road, 220 m east
23,24	617 Enfield Road, 215 m east
25,26	483 Enfield Road, 135 m southeast
27	463 Enfield Road, 135 m southeast
28	435 Enfield Road, 135 m southeast
29,30	425 Enfield Road, 135 m southeast
31,32	419 Enfield Road, 135 m southeast
33	423 Enfield Road, 135 m southeast
34	1135 Gallagher Road, 165 m southeast
35	Adjacent to the southeast



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Watercourse, Permanent
- Watercourse, Intermittent
- Water Area
- 250m Study Area
- Site (approximate)

Potentially Contributing Activities:

- Does Not Contribute to APEC
- Contributes to APEC

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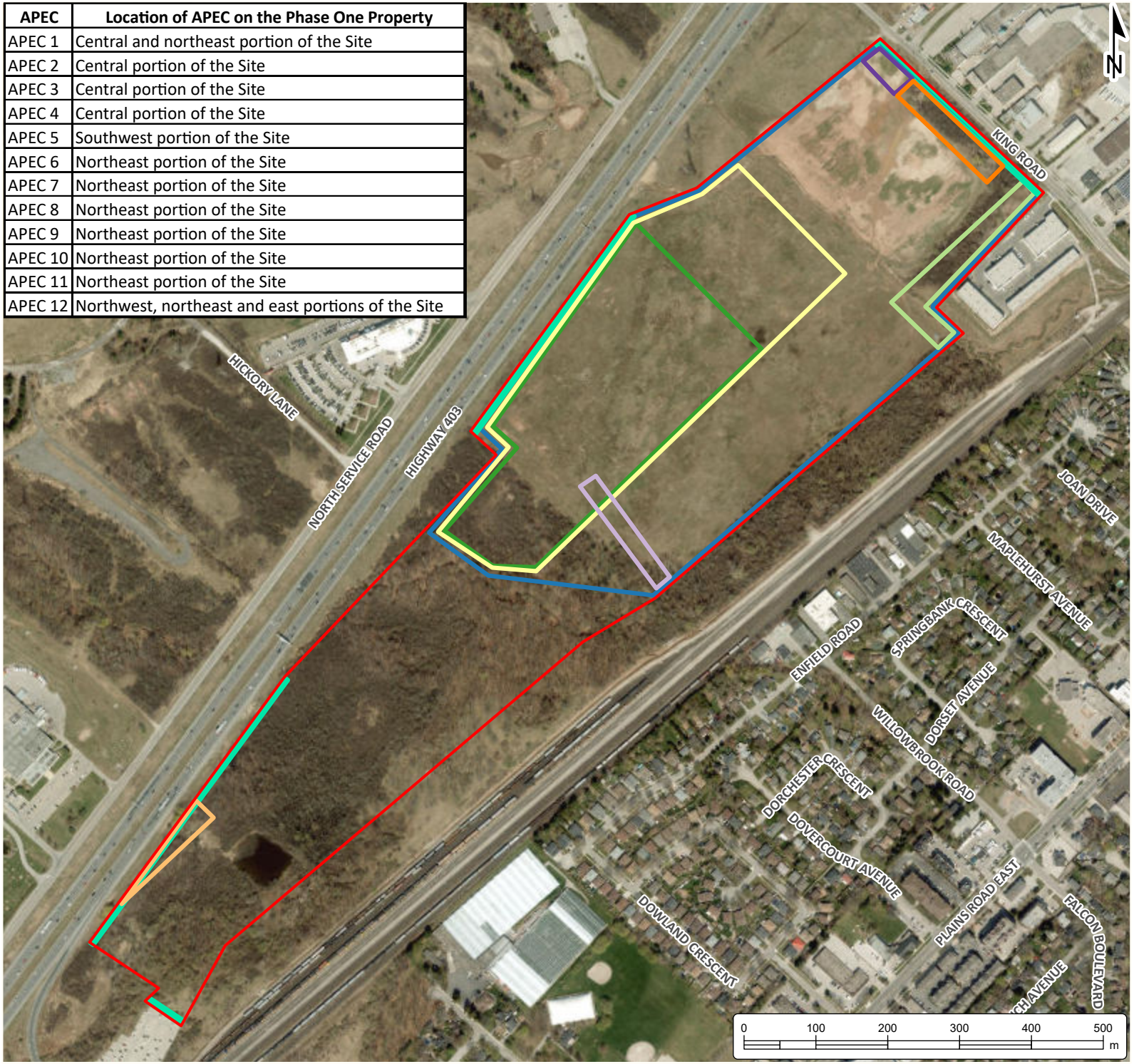
CONCEPTUAL SITE MODEL STUDY AREA

Project No.:	14455-002	Date:	March 2024
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APEC	Location of APEC on the Phase One Property
APEC 1	Central and northeast portion of the Site
APEC 2	Central portion of the Site
APEC 3	Central portion of the Site
APEC 4	Central portion of the Site
APEC 5	Southwest portion of the Site
APEC 6	Northeast portion of the Site
APEC 7	Northeast portion of the Site
APEC 8	Northeast portion of the Site
APEC 9	Northeast portion of the Site
APEC 10	Northeast portion of the Site
APEC 11	Northeast portion of the Site
APEC 12	Northwest, northeast and east portions of the Site



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Site (approximate)

Areas of Potential Environmental Concern:

- APEC 1
- APEC 2
- APEC 3
- APEC 4
- APEC 5
- APEC 6 & 7
- APEC 8,9,&10
- APEC 11
- APEC 12

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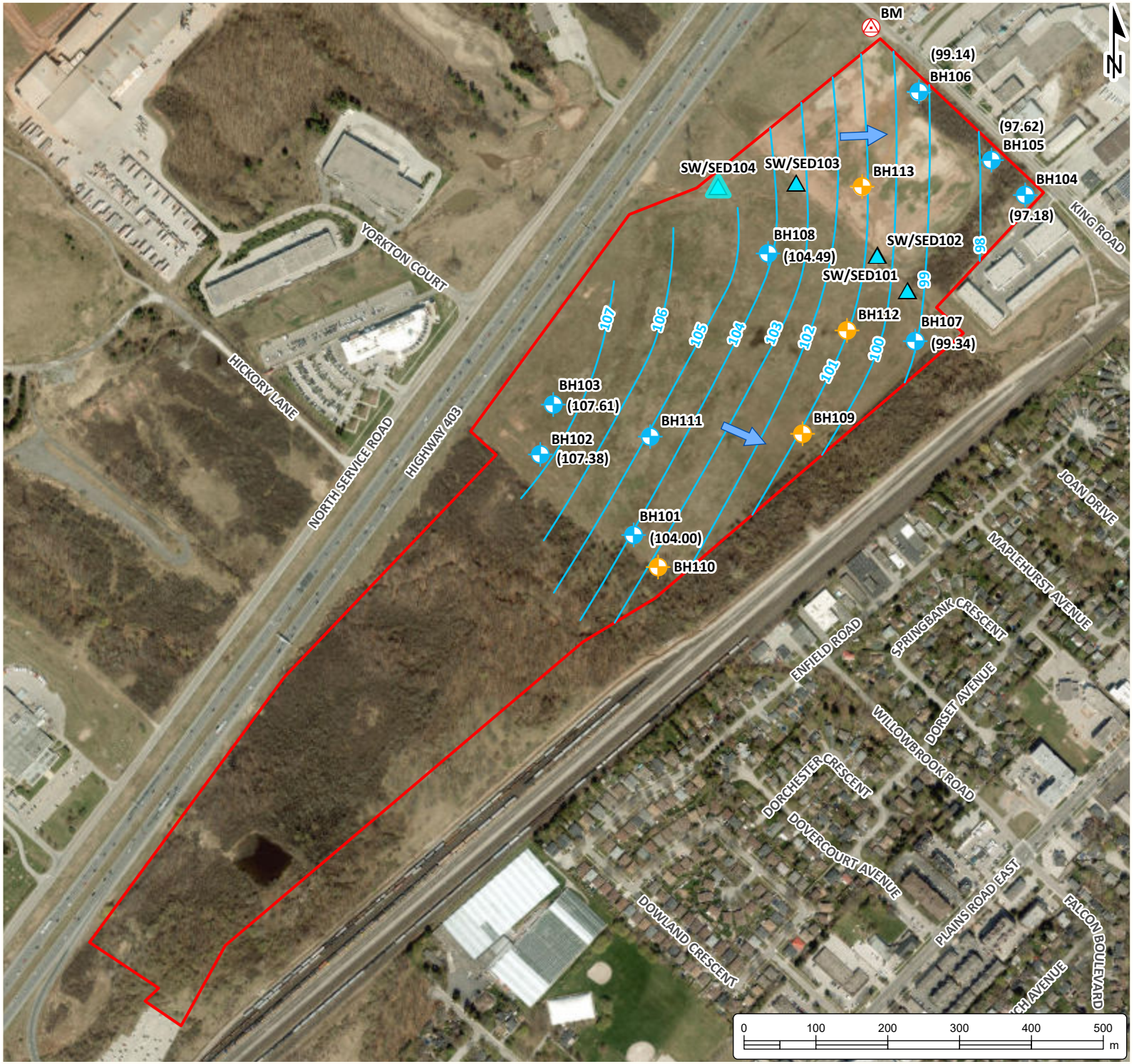
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CONCEPTUAL SITE MODEL SITE PLAN

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PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- (114.57) Groundwater Elevation (m rel.) (Jan. 5, 2023)
- Groundwater Contour (1m intervals)
- Groundwater Flow Direction (Jan. 5, 2023)
- Site (approximate)

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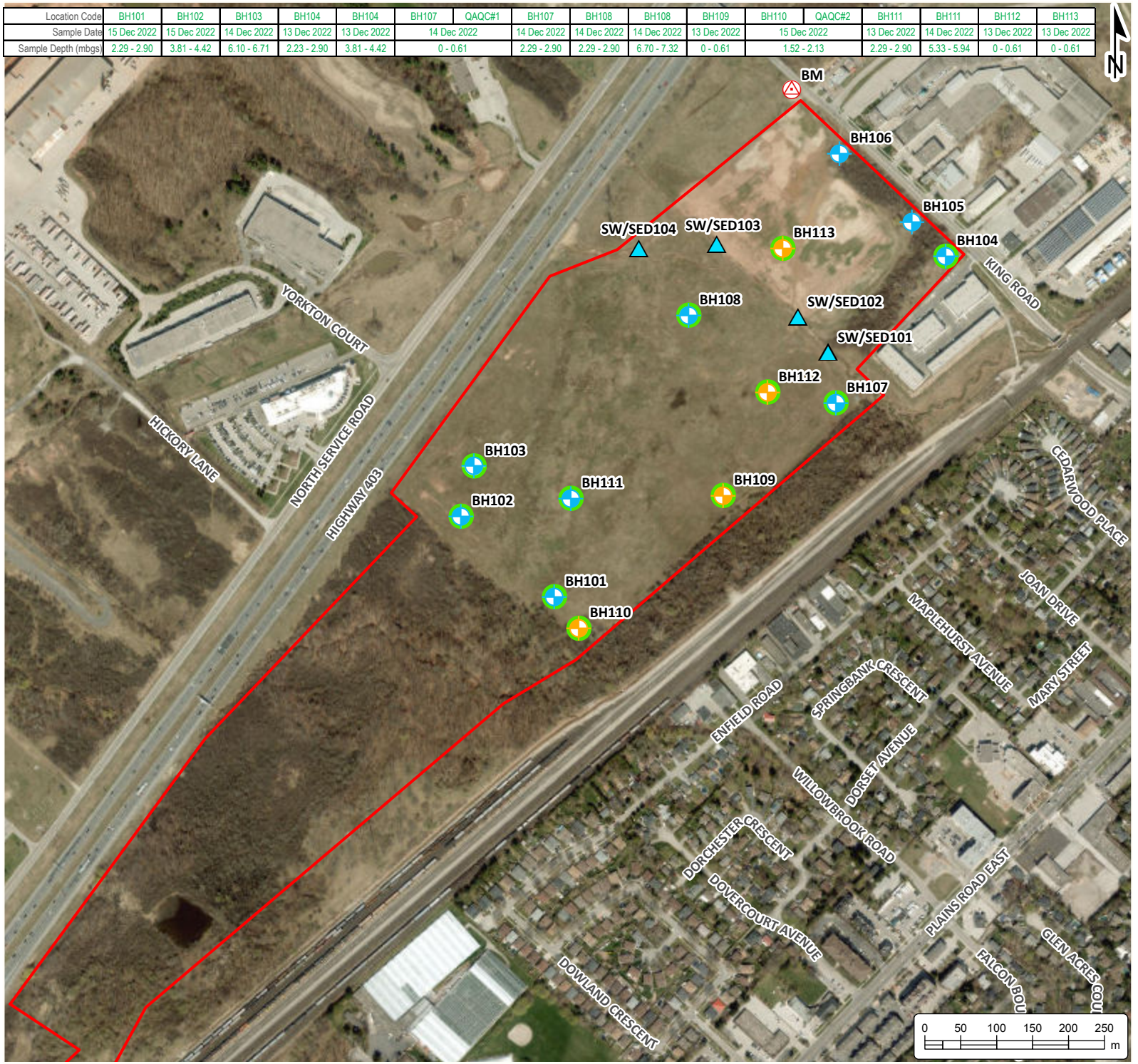
BOREHOLE AND MONITORING WELL LOCATIONS

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Location Code	BH101	BH102	BH103	BH104	BH104	BH107	QAQC#1	BH107	BH108	BH108	BH109	BH110	QAQC#2	BH111	BH111	BH112	BH113
Sample Date	15 Dec 2022	15 Dec 2022	14 Dec 2022	13 Dec 2022	13 Dec 2022	14 Dec 2022		14 Dec 2022	14 Dec 2022	14 Dec 2022	13 Dec 2022	15 Dec 2022		13 Dec 2022	14 Dec 2022	13 Dec 2022	13 Dec 2022
Sample Depth (mbgs)	2.29 - 2.90	3.81 - 4.42	6.10 - 6.71	2.23 - 2.90	3.81 - 4.42	0 - 0.61		2.29 - 2.90	2.29 - 2.90	6.70 - 7.32	0 - 0.61	1.52 - 2.13		2.29 - 2.90	5.33 - 5.94	0 - 0.61	0 - 0.61



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets Table 1 RPIICC
- Exceeds Table 1 RPIICC
- Site (approximate)

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SOIL QUALITY
BTEX

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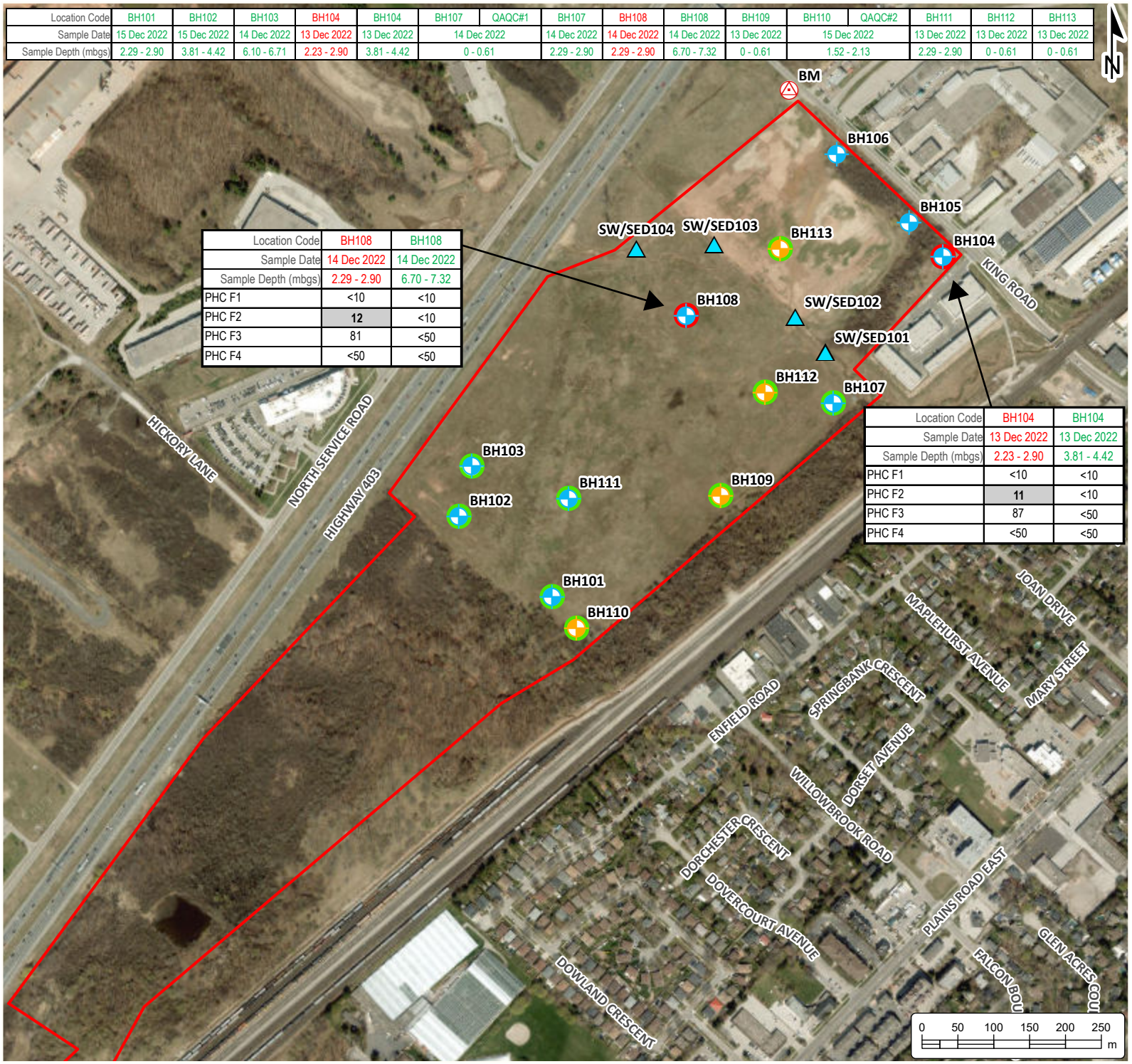
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Location Code	BH101	BH102	BH103	BH104	BH104	BH107	QAQC#1	BH107	BH108	BH108	BH109	BH110	QAQC#2	BH111	BH112	BH113
Sample Date	15 Dec 2022	15 Dec 2022	14 Dec 2022	13 Dec 2022	13 Dec 2022	14 Dec 2022		14 Dec 2022	14 Dec 2022	14 Dec 2022	13 Dec 2022	15 Dec 2022		13 Dec 2022	13 Dec 2022	13 Dec 2022
Sample Depth (mbgs)	2.29 - 2.90	3.81 - 4.42	6.10 - 6.71	2.23 - 2.90	3.81 - 4.42	0 - 0.61		2.29 - 2.90	2.29 - 2.90	6.70 - 7.32	0 - 0.61	1.52 - 2.13		2.29 - 2.90	0 - 0.61	0 - 0.61

Location Code	BH108	BH108
Sample Date	14 Dec 2022	14 Dec 2022
Sample Depth (mbgs)	2.29 - 2.90	6.70 - 7.32
PHC F1	<10	<10
PHC F2	12	<10
PHC F3	81	<50
PHC F4	<50	<50

Location Code	BH104	BH104
Sample Date	13 Dec 2022	13 Dec 2022
Sample Depth (mbgs)	2.23 - 2.90	3.81 - 4.42
PHC F1	<10	<10
PHC F2	11	<10
PHC F3	87	<50
PHC F4	<50	<50



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets Table 1 RPIICC
- Exceeds Table 1 RPIICC
- Site (approximate)

PHCs	Units	Table 1 RPIICC
PHC F1	µg/g	25
PHC F2	µg/g	10
PHC F3	µg/g	240
PHC F4	µg/g	120

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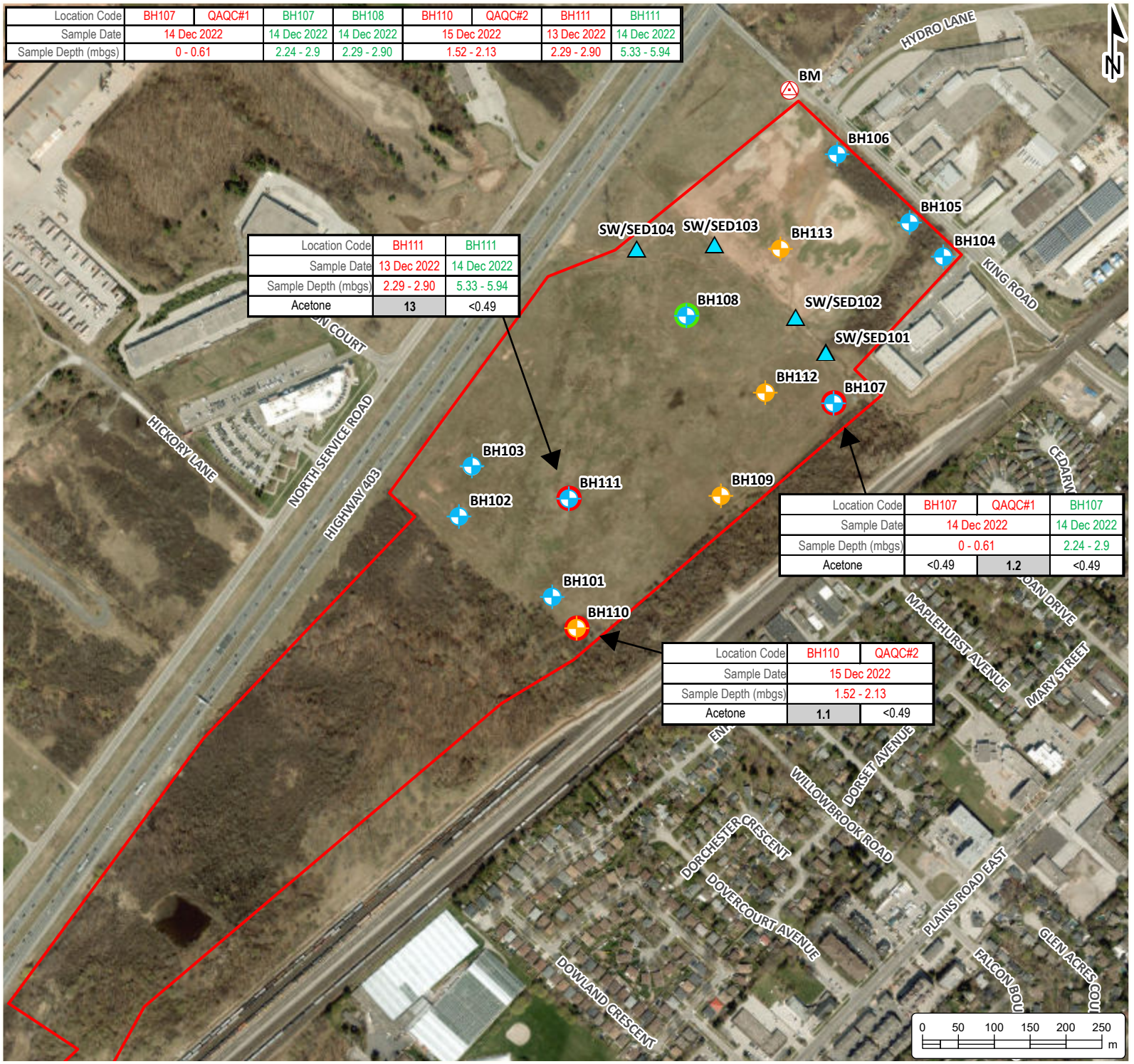
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SOIL QUALITY PHCs

Project No.: 14455-002		Date: March 2024	Rev.:
Scale: 1:7,500		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: SN	Figure: 6	

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Location Code	BH107	QAQC#1	BH107	BH108	BH110	QAQC#2	BH111	BH111
Sample Date	14 Dec 2022		14 Dec 2022	14 Dec 2022	15 Dec 2022		13 Dec 2022	14 Dec 2022
Sample Depth (mbgs)	0 - 0.61		2.24 - 2.9	2.29 - 2.90	1.52 - 2.13		2.29 - 2.90	5.33 - 5.94

Location Code	BH111	BH111
Sample Date	13 Dec 2022	14 Dec 2022
Sample Depth (mbgs)	2.29 - 2.90	5.33 - 5.94
Acetone	13	<0.49

Location Code	BH107	QAQC#1	BH107
Sample Date	14 Dec 2022		14 Dec 2022
Sample Depth (mbgs)	0 - 0.61		2.24 - 2.9
Acetone	<0.49	1.2	<0.49

Location Code	BH110	QAQC#2
Sample Date	15 Dec 2022	
Sample Depth (mbgs)	1.52 - 2.13	
Acetone	1.1	<0.49

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets Table 1 RPIICC
- Exceeds Table 1 RPIICC
- Site (approximate)

VOCs	Units	Table 1 RPIICC
Acetone	µg/g	0.5

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SOIL QUALITY VOCs

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Location Code	BH101	BH102	BH103	BH104	BH107	QAQC#1	BH107	BH108	BH109	BH110	QAQC#2	BH111	BH112	BH113
Sample Date	15 Dec 2022	15 Dec 2022	14 Dec 2022	13 Dec 2022	14 Dec 2022		14 Dec 2022	14 Dec 2022	13 Dec 2022	15 Dec 2022		13 Dec 2022	13 Dec 2022	13 Dec 2022
Sample Depth (mbgs)	2.29 - 2.90	3.81 - 4.42	6.10 - 6.71	2.23 - 2.90	0 - 0.61		2.29 - 2.90	2.29 - 2.90	0 - 0.61	1.52 - 2.13		2.29 - 2.90	0 - 0.61	0 - 0.61



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
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- Meets Table 1 RPIICC
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- Site (approximate)

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SOIL QUALITY PAHs

Project No.: 14455-002		Date: March 2024	
		Rev.:	
Scale: 1:7,500		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: SN	Figure: 8	

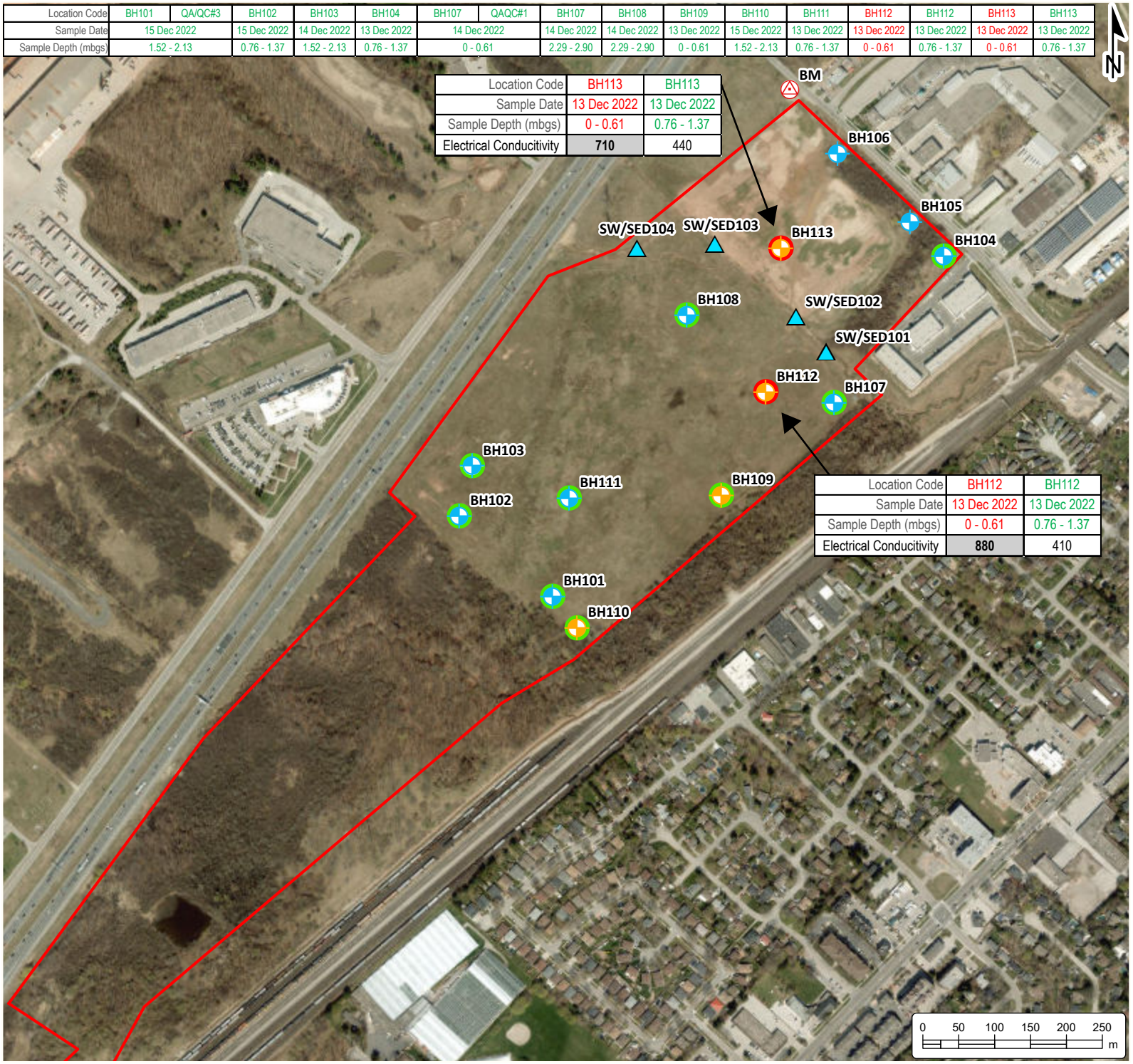
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DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Location Code	BH101	QA/QC#3	BH102	BH103	BH104	BH107	QAQC#1	BH107	BH108	BH109	BH110	BH111	BH112	BH112	BH113	BH113
Sample Date	15 Dec 2022		15 Dec 2022	14 Dec 2022	13 Dec 2022	14 Dec 2022		14 Dec 2022	14 Dec 2022	13 Dec 2022	15 Dec 2022	13 Dec 2022	13 Dec 2022	13 Dec 2022	13 Dec 2022	13 Dec 2022
Sample Depth (mbgs)	1.52 - 2.13		0.76 - 1.37	1.52 - 2.13	0.76 - 1.37	0 - 0.61		2.29 - 2.90	2.29 - 2.90	0 - 0.61	1.52 - 2.13	0.76 - 1.37	0 - 0.61	0.76 - 1.37	0 - 0.61	0.76 - 1.37

Location Code	BH113	BH113
Sample Date	13 Dec 2022	13 Dec 2022
Sample Depth (mbgs)	0 - 0.61	0.76 - 1.37
Electrical Conductivity	**710**	440

Location Code	BH112	BH112
Sample Date	13 Dec 2022	13 Dec 2022
Sample Depth (mbgs)	0 - 0.61	0.76 - 1.37
Electrical Conductivity	**880**	410



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets Table 1 RPIICC
- Exceeds Table 1 RPIICC
- Site (approximate)
- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery
- High Resolution 30cm Imagery
- Citations
- 2.4m Resolution Metadata

Metals	Units	Table 1 RPIICC
Conductivity	µS/cm	570

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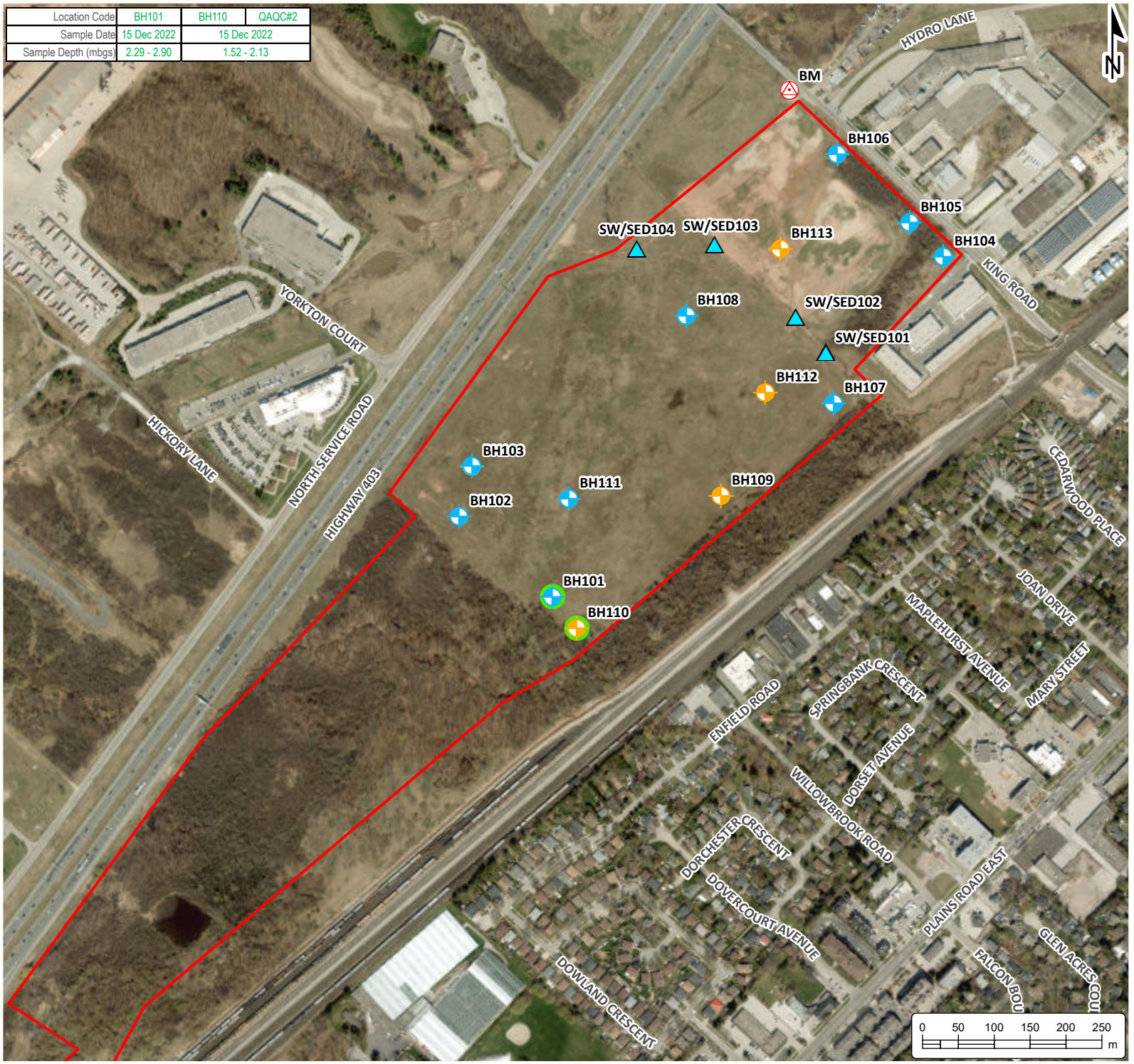
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SOIL QUALITY METALS/ORPs

Project No.: 14455-002		Date: March 2024	Rev.:
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PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets Table 1 RPIICC
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- Site (approximate)

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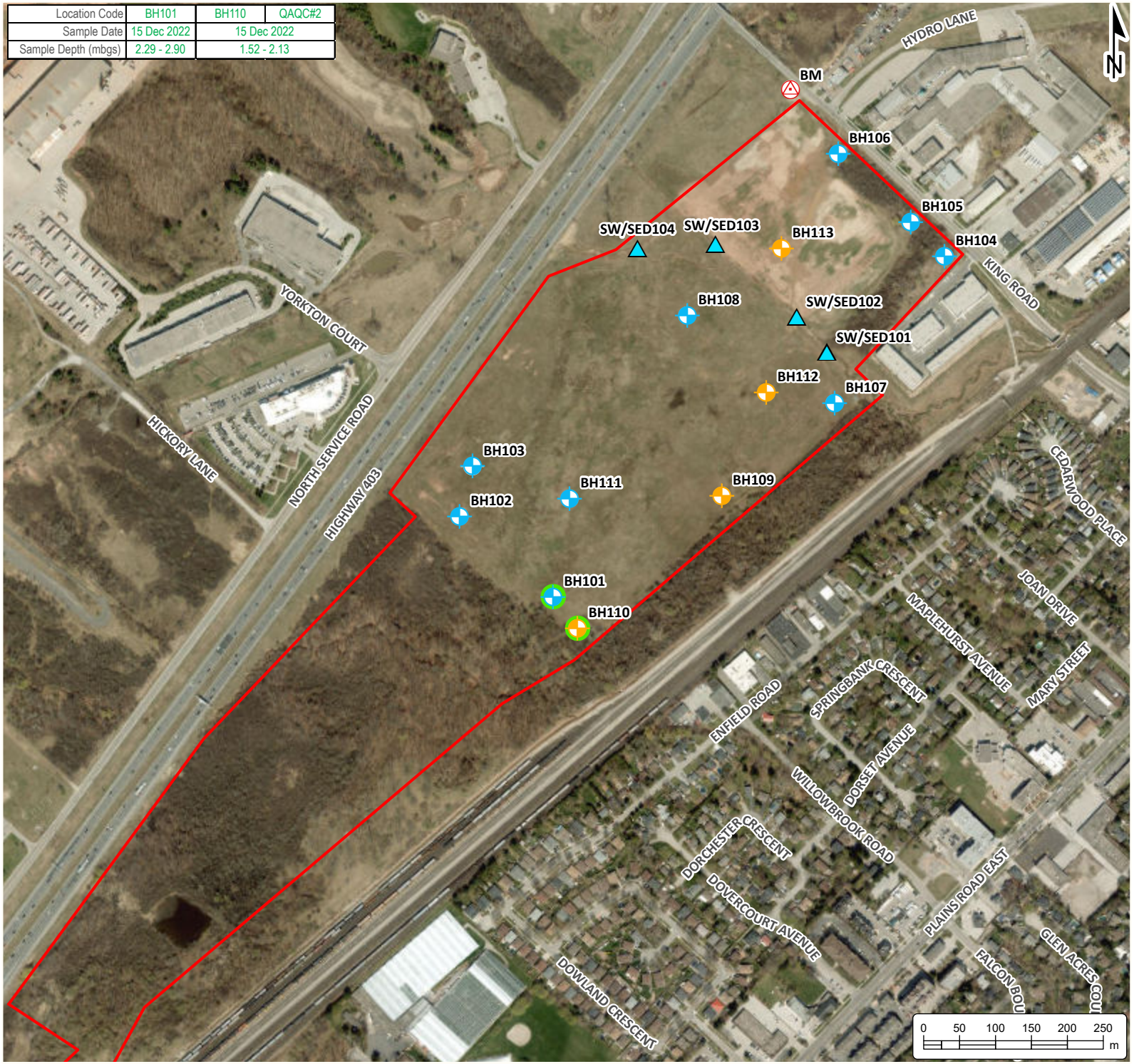
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SOIL QUALITY PCBs

Project No.: 14455-002		Date: March 2024	Rev.:
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Created by: NLB	Checked by: SN	Figure: 10	

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PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
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- Meets Table 1 RPIICC
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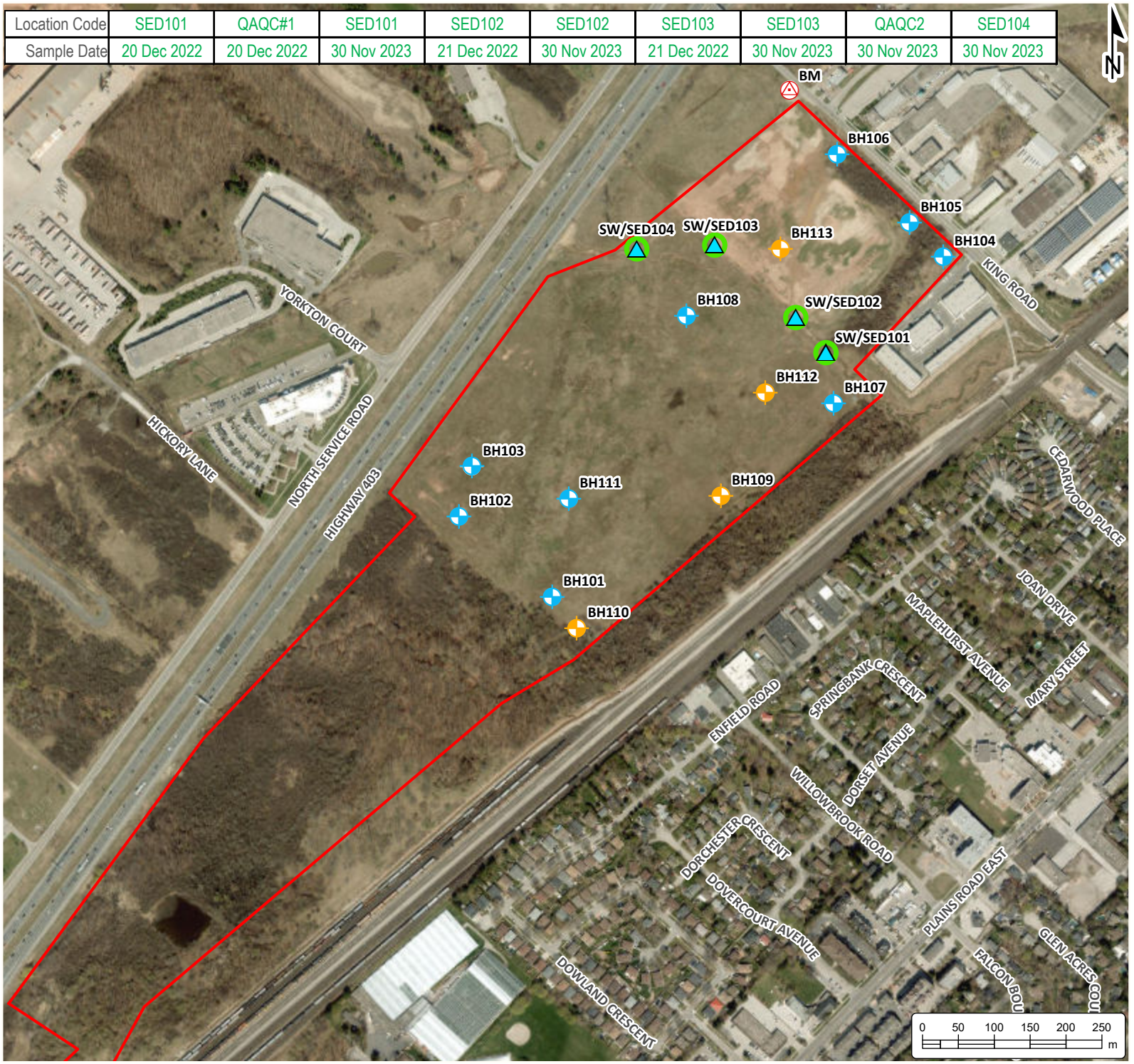
SOIL QUALITY
OCs

Project No.: 14455-002		Date: March 2024	Rev.:
Scale: 1:7,500		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: SN	Figure: 11	

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Location Code	SED101	QAQC#1	SED101	SED102	SED102	SED103	SED103	QAQC2	SED104
Sample Date	20 Dec 2022	20 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	30 Nov 2023	30 Nov 2023



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets Table 1 All Types of Property Use
- Exceeds Table 1 All Types of Property Use
- Site (approximate)

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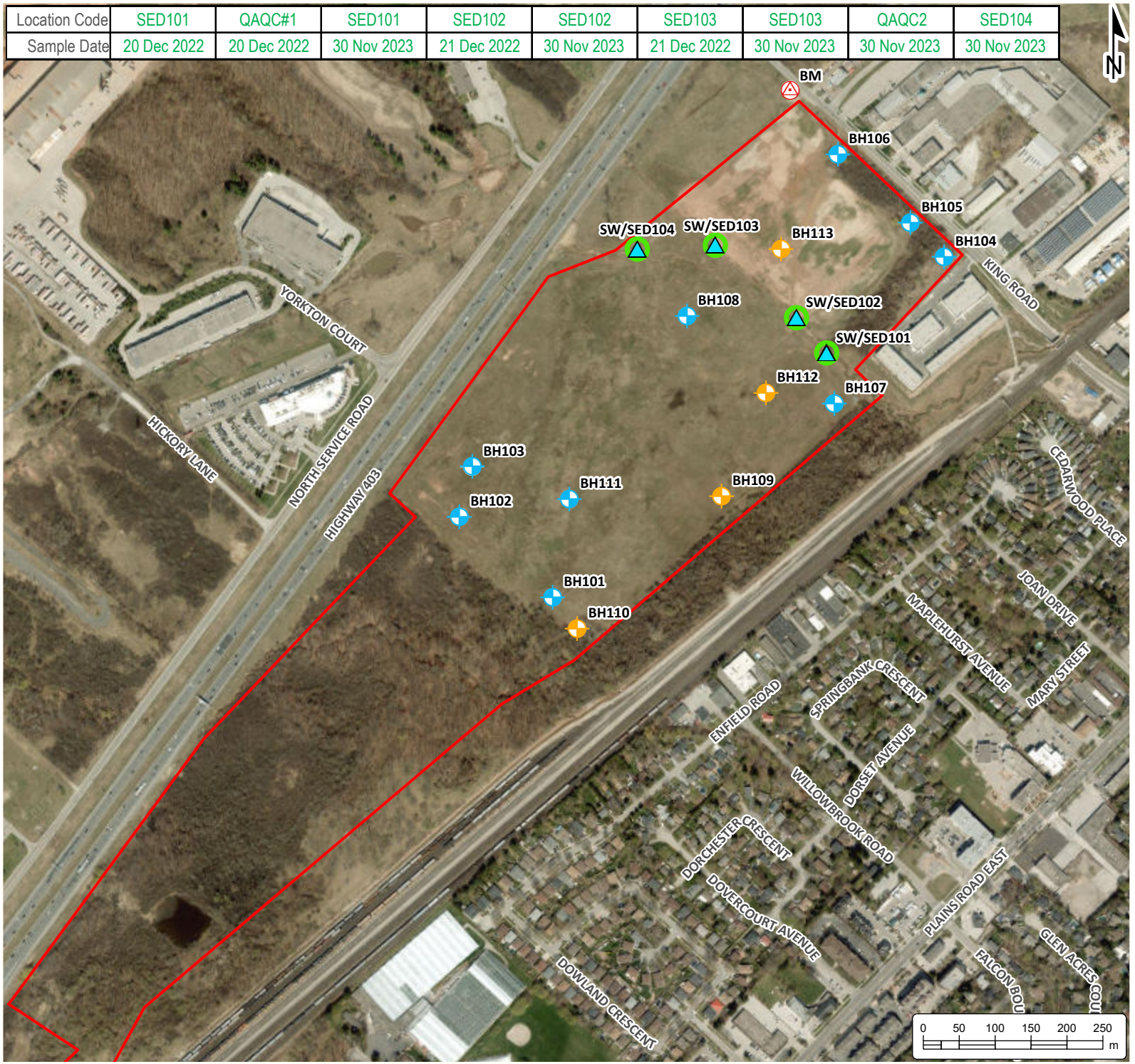
SEDIMENT QUALITY BTEX/PHCs

Project No.:	14455-002	Date:	March 2024
		Rev.:	
Scale:	1:7,500	Projection:	NAD 1983 UTM Zone 17N
Created by:	NLB	Checked by:	SN
Figure:	12		

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Location Code	SED101	QAQC#1	SED101	SED102	SED102	SED103	SED103	QAQC2	SED104
Sample Date	20 Dec 2022	20 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	30 Nov 2023	30 Nov 2023



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets Table 1 All Types of Property Use
- Exceeds Table 1 All Types of Property Use
- Site (approximate)

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SEDIMENT QUALITY PAHs

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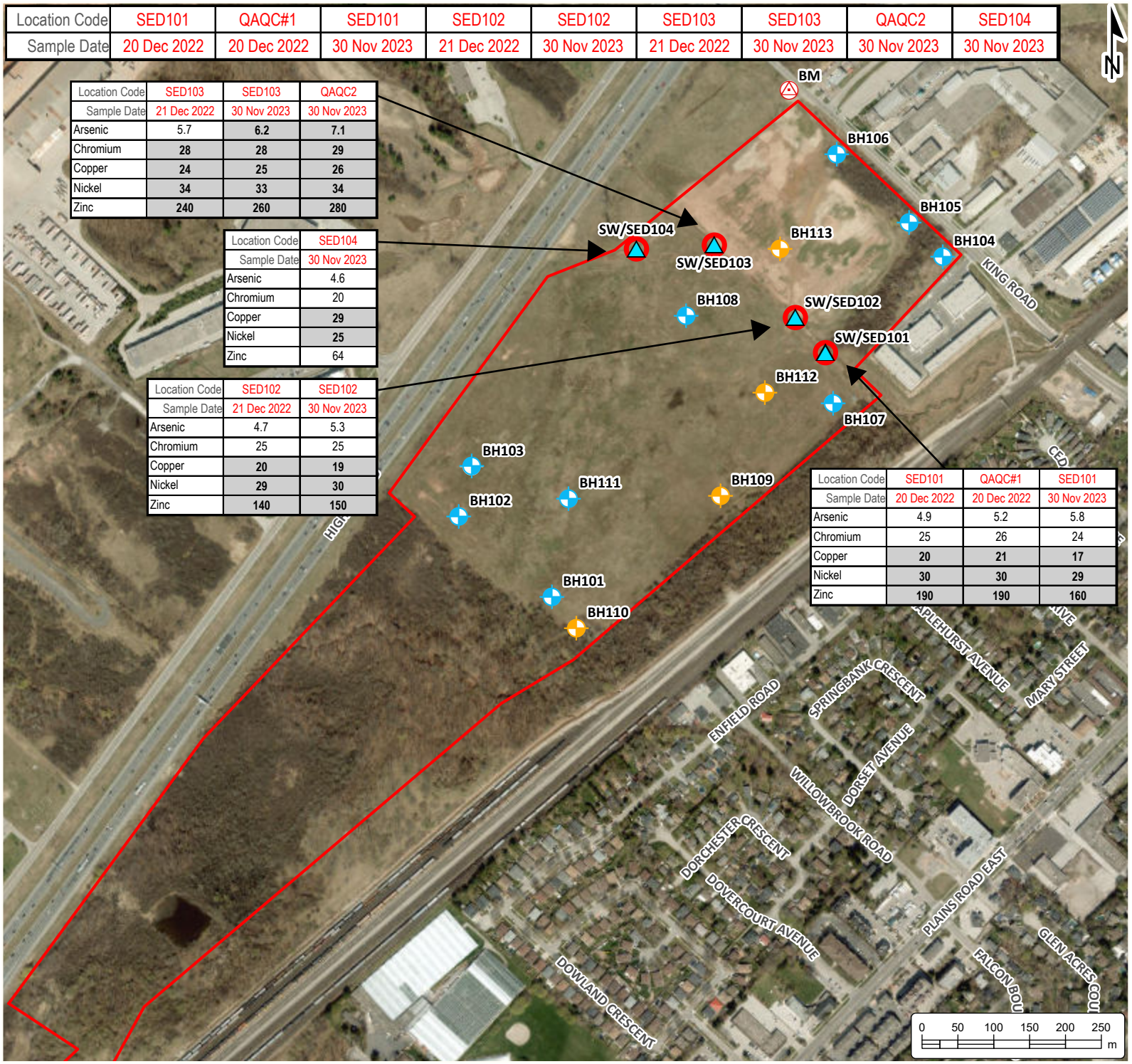
Location Code	SED101	QAQC#1	SED101	SED102	SED102	SED103	SED103	QAQC2	SED104
Sample Date	20 Dec 2022	20 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	30 Nov 2023	30 Nov 2023

Location Code	SED103	SED103	QAQC2
Sample Date	21 Dec 2022	30 Nov 2023	30 Nov 2023
Arsenic	5.7	6.2	7.1
Chromium	28	28	29
Copper	24	25	26
Nickel	34	33	34
Zinc	240	260	280

Location Code	SED104
Sample Date	30 Nov 2023
Arsenic	4.6
Chromium	20
Copper	29
Nickel	25
Zinc	64

Location Code	SED102	SED102
Sample Date	21 Dec 2022	30 Nov 2023
Arsenic	4.7	5.3
Chromium	25	25
Copper	20	19
Nickel	29	30
Zinc	140	150

Location Code	SED101	QAQC#1	SED101
Sample Date	20 Dec 2022	20 Dec 2022	30 Nov 2023
Arsenic	4.9	5.2	5.8
Chromium	25	26	24
Copper	20	21	17
Nickel	30	30	29
Zinc	190	190	160



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets Table 1 All Types of Property Use
- Exceeds Table 1 All Types of Property Use
- Site (approximate)

Metals	Units	Table 1 SCS
Arsenic	µg/g	6
Chromium	µg/g	26
Copper	µg/g	16
Nickel	µg/g	16
Zinc	µg/g	120

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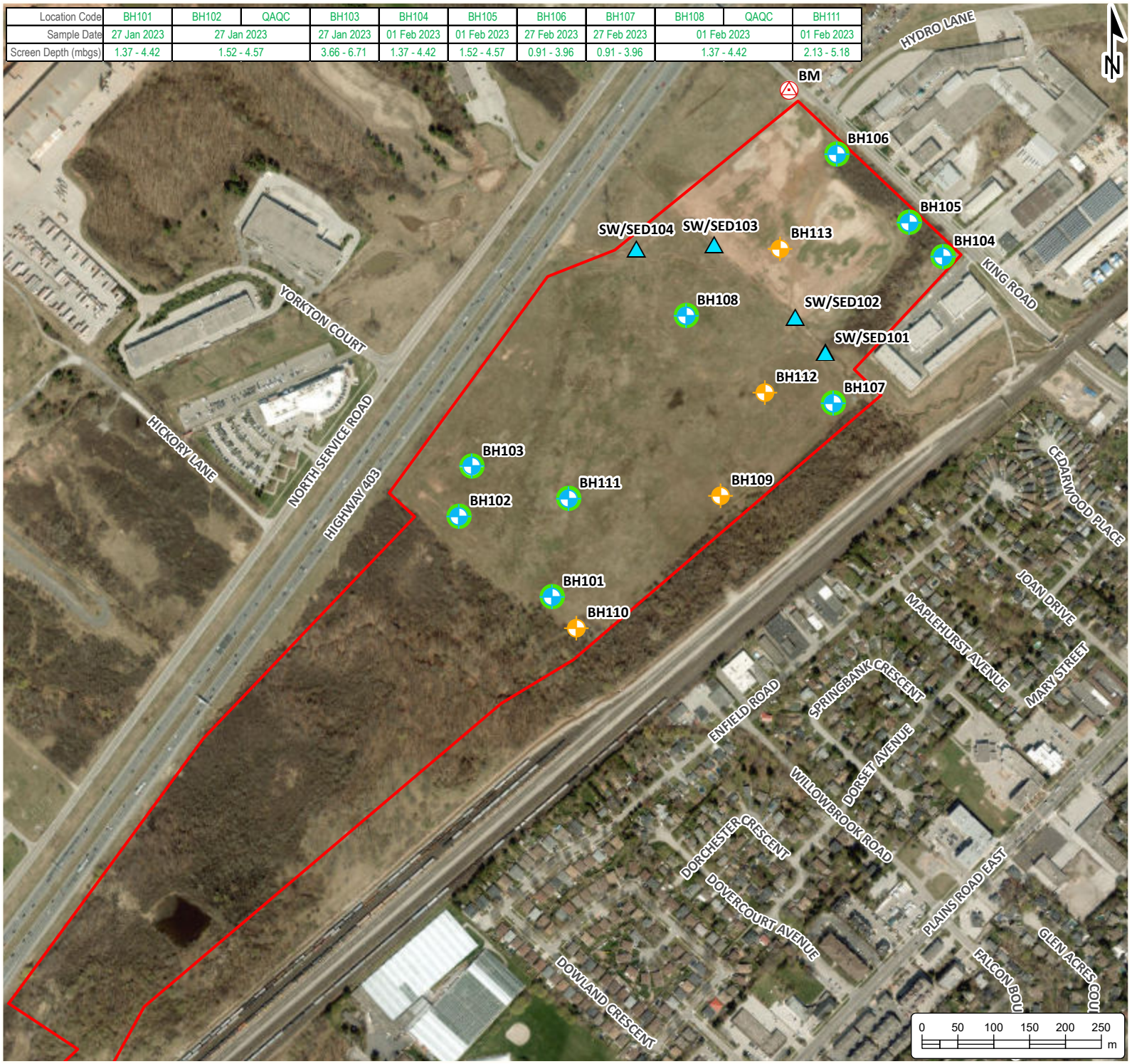
SEDIMENT QUALITY METALS/ORPs

Project No.: 14455-002		Date: March 2024	Rev.:
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Created by: NLB	Checked by: SN	Figure: 14	

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Location Code	BH101	BH102	QAQC	BH103	BH104	BH105	BH106	BH107	BH108	QAQC	BH111
Sample Date	27 Jan 2023	27 Jan 2023		27 Jan 2023	01 Feb 2023	01 Feb 2023	27 Feb 2023	27 Feb 2023	01 Feb 2023		01 Feb 2023
Screen Depth (mbgs)	1.37 - 4.42	1.52 - 4.57		3.66 - 6.71	1.37 - 4.42	1.52 - 4.57	0.91 - 3.96	0.91 - 3.96	1.37 - 4.42		2.13 - 5.18



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

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- Meets Table 1 RPIICC
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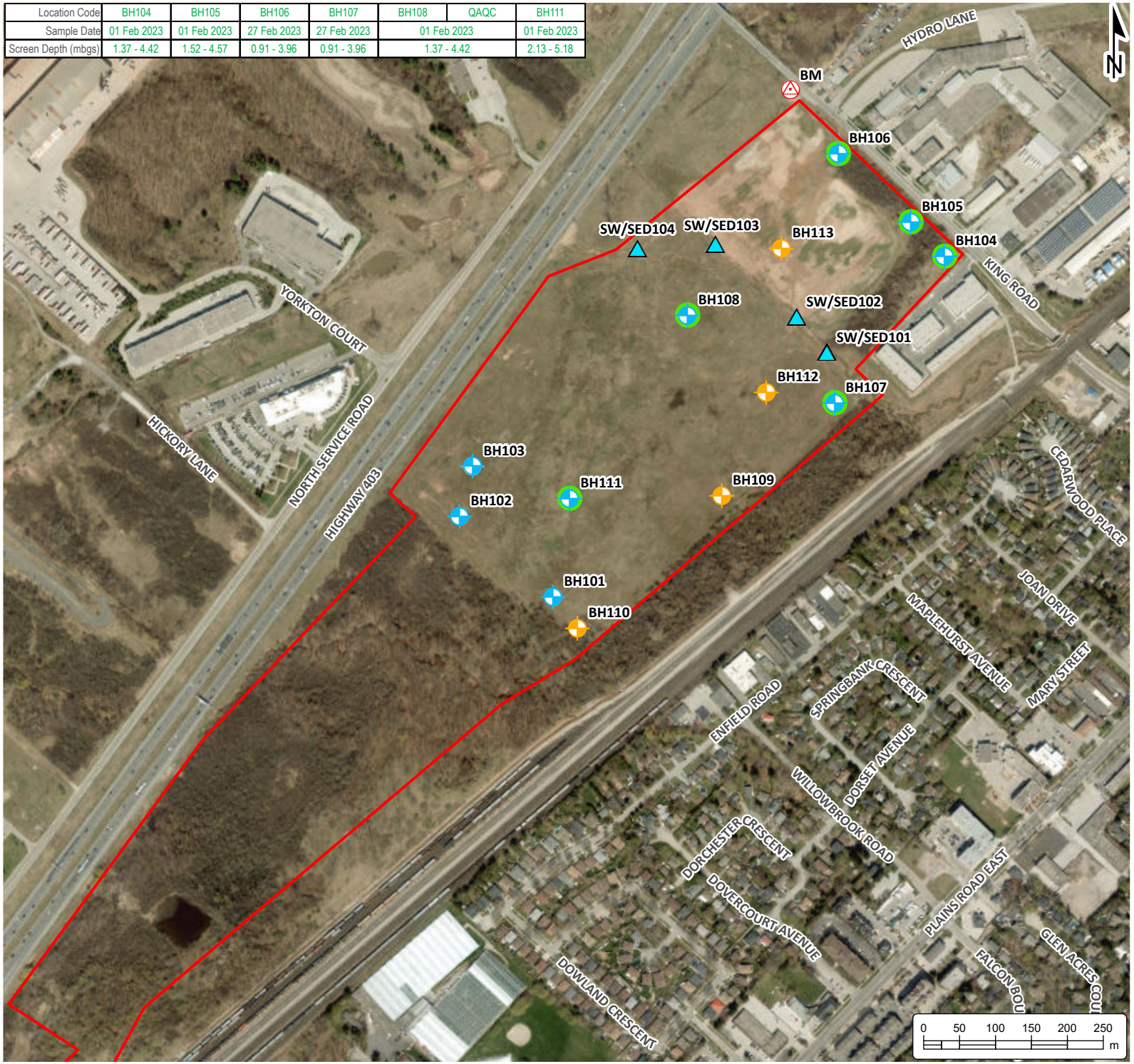
GROUNDWATER QUALITY BTEX/PHCs

Project No.: 14455-002		Date: March 2024	Rev.:
Scale: 1:7,500		Projection: NAD 1983 UTM Zone 17N	
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Location Code	BH104	BH105	BH106	BH107	BH108	QAQC	BH111
Sample Date	01 Feb 2023	01 Feb 2023	27 Feb 2023	27 Feb 2023	01 Feb 2023		01 Feb 2023
Screen Depth (mbgs)	1.37 - 4.42	1.52 - 4.57	0.91 - 3.96	0.91 - 3.96	1.37 - 4.42		2.13 - 5.18



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
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- Meets Table 1 RPIICC
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- Site (approximate)

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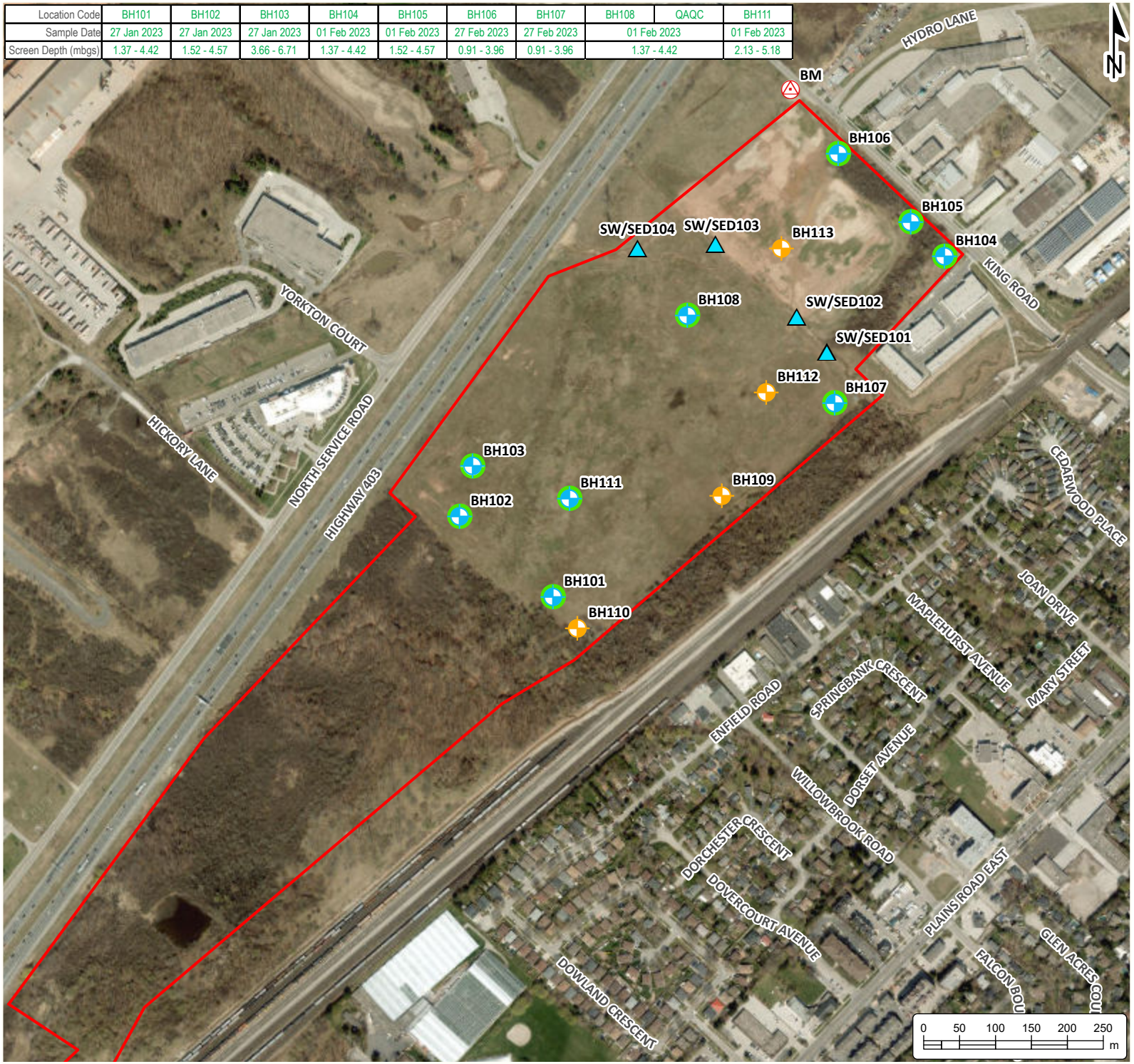
GROUNDWATER QUALITY VOCs

Project No.: 14455-002		Date: March 2024	Rev.:
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Created by: NLB	Checked by: SN	Figure: 16	

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Location Code	BH101	BH102	BH103	BH104	BH105	BH106	BH107	BH108	QAQC	BH111
Sample Date	27 Jan 2023	27 Jan 2023	27 Jan 2023	01 Feb 2023	01 Feb 2023	27 Feb 2023	27 Feb 2023	01 Feb 2023		01 Feb 2023
Screen Depth (mbgs)	1.37 - 4.42	1.52 - 4.57	3.66 - 6.71	1.37 - 4.42	1.52 - 4.57	0.91 - 3.96	0.91 - 3.96	1.37 - 4.42		2.13 - 5.18



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets Table 1 RPIICC
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- Site (approximate)

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GROUNDWATER QUALITY PAHs

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Location Code	BH101	BH102	BH103	BH104	BH106	BH107	BH108	QAQC	BH111
Sample Date	27 Jan 2023	27 Jan 2023	27 Jan 2023	01 Feb 2023	27 Feb 2023	27 Feb 2023	01 Feb 2023		01 Feb 2023
Screen Depth (mbgs)	1.37 - 4.42	1.52 - 4.57	3.66 - 6.71	1.37 - 4.42	0.91 - 3.96	0.91 - 3.96	1.37 - 4.42		2.13 - 5.18

Location Code	BH106
Sample Date	27 Feb 2023
Screen Depth (mbgs)	0.91 - 3.96
Antimony	<2.5
Beryllium	<2.0
Chromium	<25
Copper	<4.5
Lead	<2.5
Molybdenum	7.8
Nickel	9.8
Selenium	<10
Silver	<0.45
Uranium	33

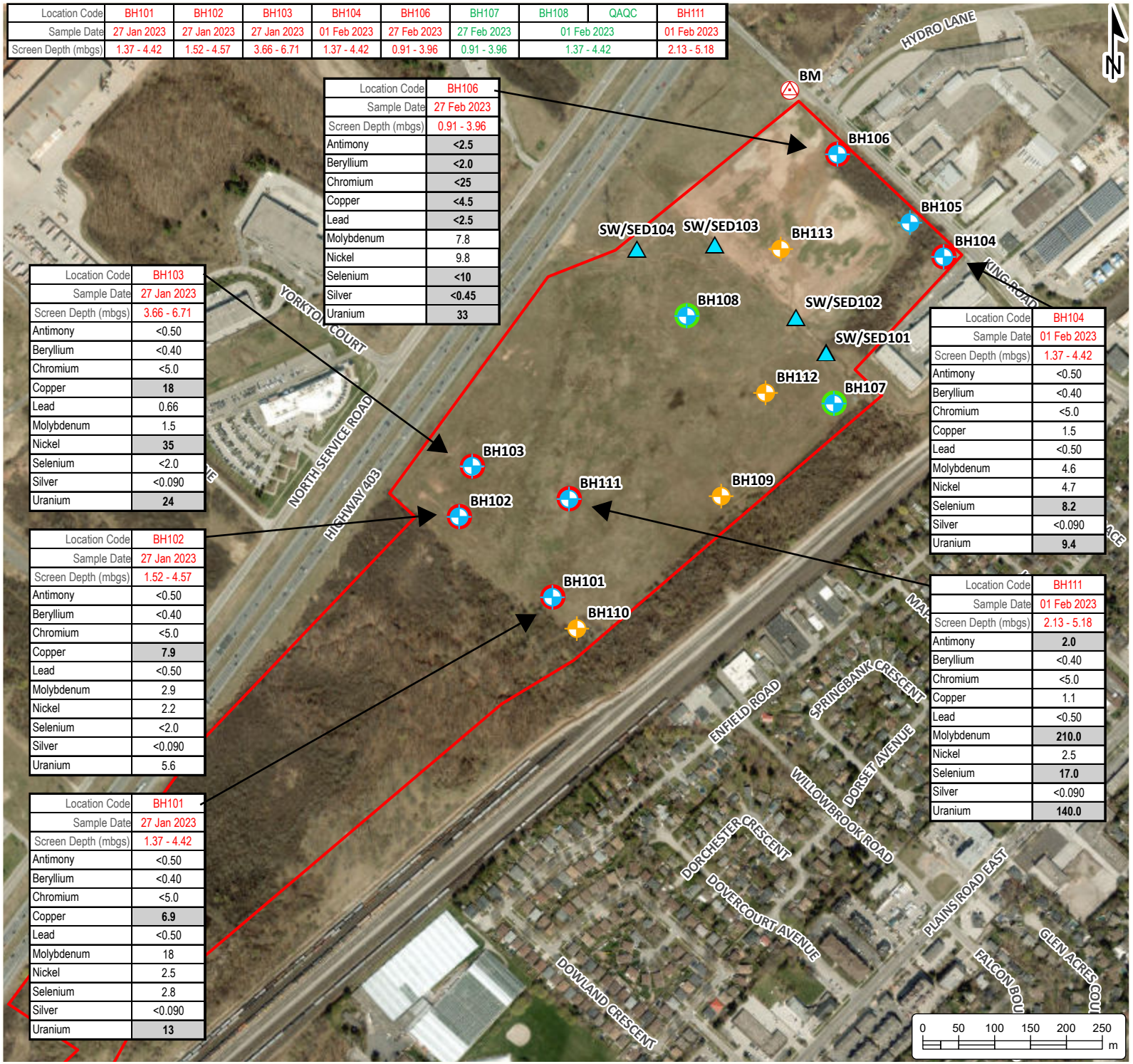
Location Code	BH103
Sample Date	27 Jan 2023
Screen Depth (mbgs)	3.66 - 6.71
Antimony	<0.50
Beryllium	<0.40
Chromium	<5.0
Copper	18
Lead	0.66
Molybdenum	1.5
Nickel	35
Selenium	<2.0
Silver	<0.090
Uranium	24

Location Code	BH104
Sample Date	01 Feb 2023
Screen Depth (mbgs)	1.37 - 4.42
Antimony	<0.50
Beryllium	<0.40
Chromium	<5.0
Copper	1.5
Lead	<0.50
Molybdenum	4.6
Nickel	4.7
Selenium	8.2
Silver	<0.090
Uranium	9.4

Location Code	BH102
Sample Date	27 Jan 2023
Screen Depth (mbgs)	1.52 - 4.57
Antimony	<0.50
Beryllium	<0.40
Chromium	<5.0
Copper	7.9
Lead	<0.50
Molybdenum	2.9
Nickel	2.2
Selenium	<2.0
Silver	<0.090
Uranium	5.6

Location Code	BH111
Sample Date	01 Feb 2023
Screen Depth (mbgs)	2.13 - 5.18
Antimony	2.0
Beryllium	<0.40
Chromium	<5.0
Copper	1.1
Lead	<0.50
Molybdenum	210.0
Nickel	2.5
Selenium	17.0
Silver	<0.090
Uranium	140.0

Location Code	BH101
Sample Date	27 Jan 2023
Screen Depth (mbgs)	1.37 - 4.42
Antimony	<0.50
Beryllium	<0.40
Chromium	<5.0
Copper	6.9
Lead	<0.50
Molybdenum	18
Nickel	2.5
Selenium	2.8
Silver	<0.090
Uranium	13



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets Table 1 RPIICC
- Exceeds Table 1 RPIICC
- Site (approximate)

Metals	Units	Table 1 RPIICC
Antimony	µg/L	1.5
Beryllium	µg/L	0.5
Chromium	µg/L	11
Copper	µg/L	5
Lead	µg/L	1.9
Molybdenum	µg/L	23
Nickel	µg/L	14
Selenium	µg/L	5
Silver	µg/L	0.3
Uranium	µg/L	8.9

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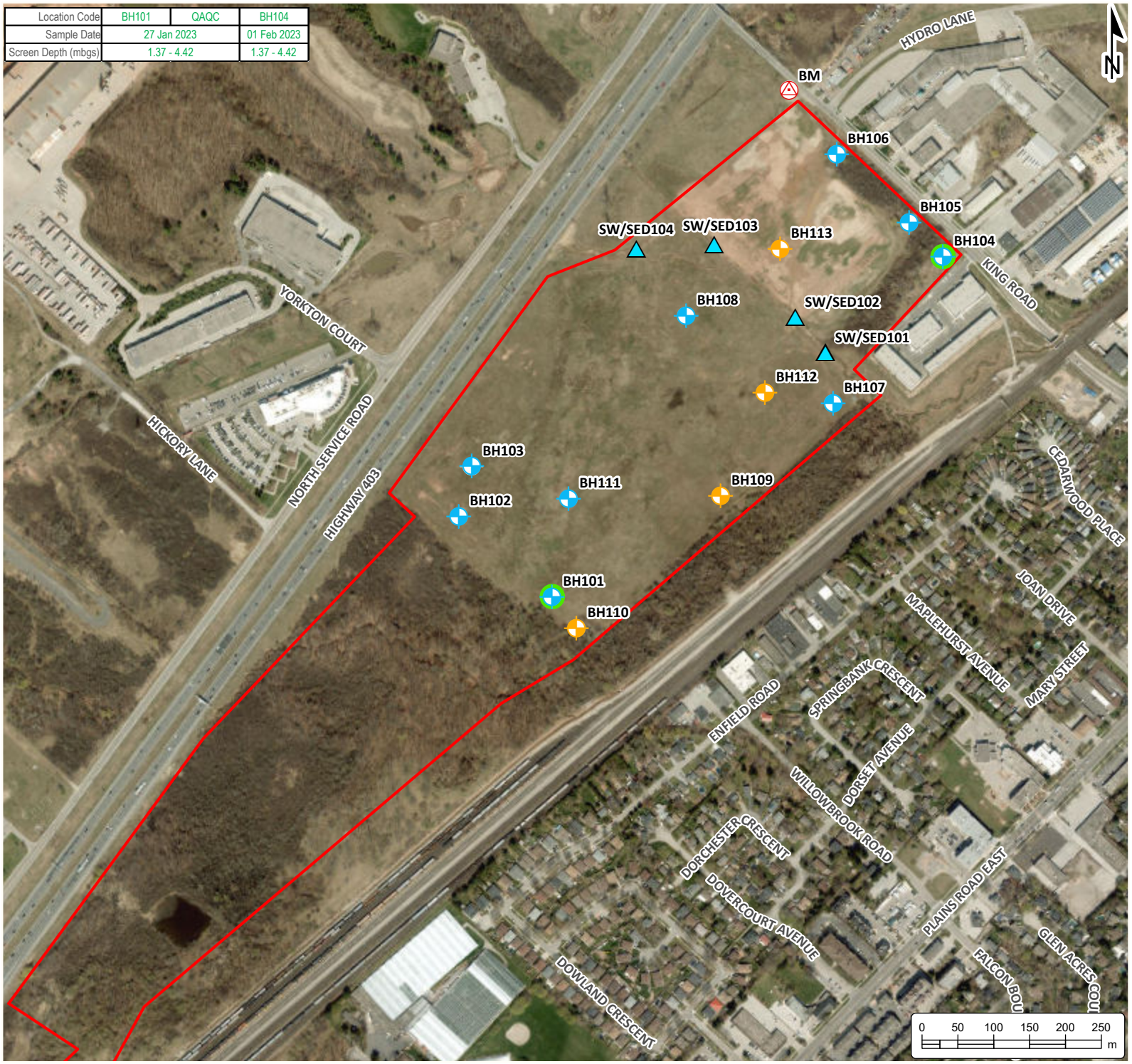
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GROUNDWATER QUALITY METALS/ORPS

Project No.: 14455-002		Date: March 2024	Rev.:
Scale: 1:7,500		Projection: NAD 1983 UTM Zone 17N	
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PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
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Burlington, Ontario

LEGEND

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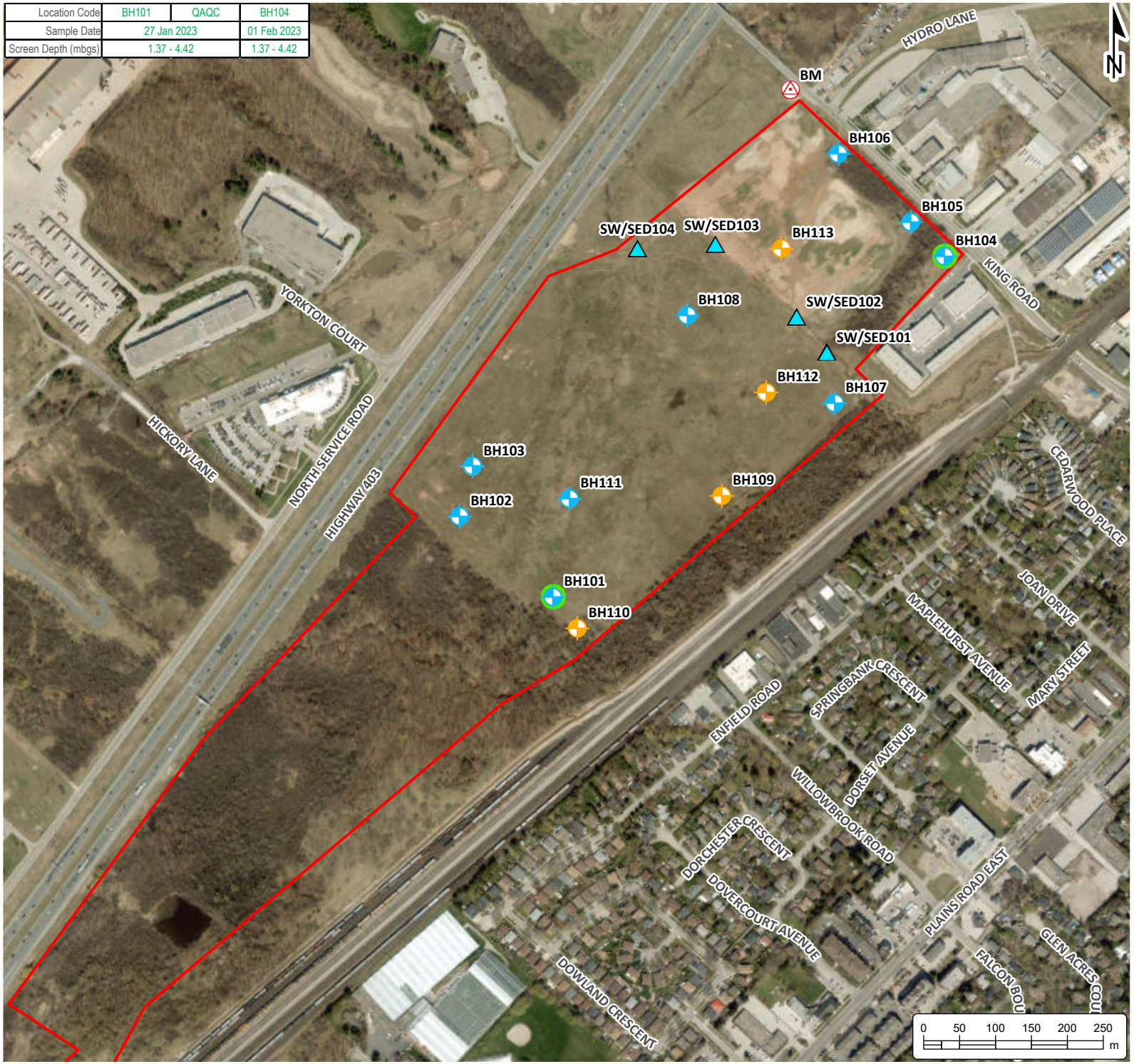
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GROUNDWATER QUALITY PCBs

Project No.: 14455-002		Date: March 2024	Rev.:
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PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
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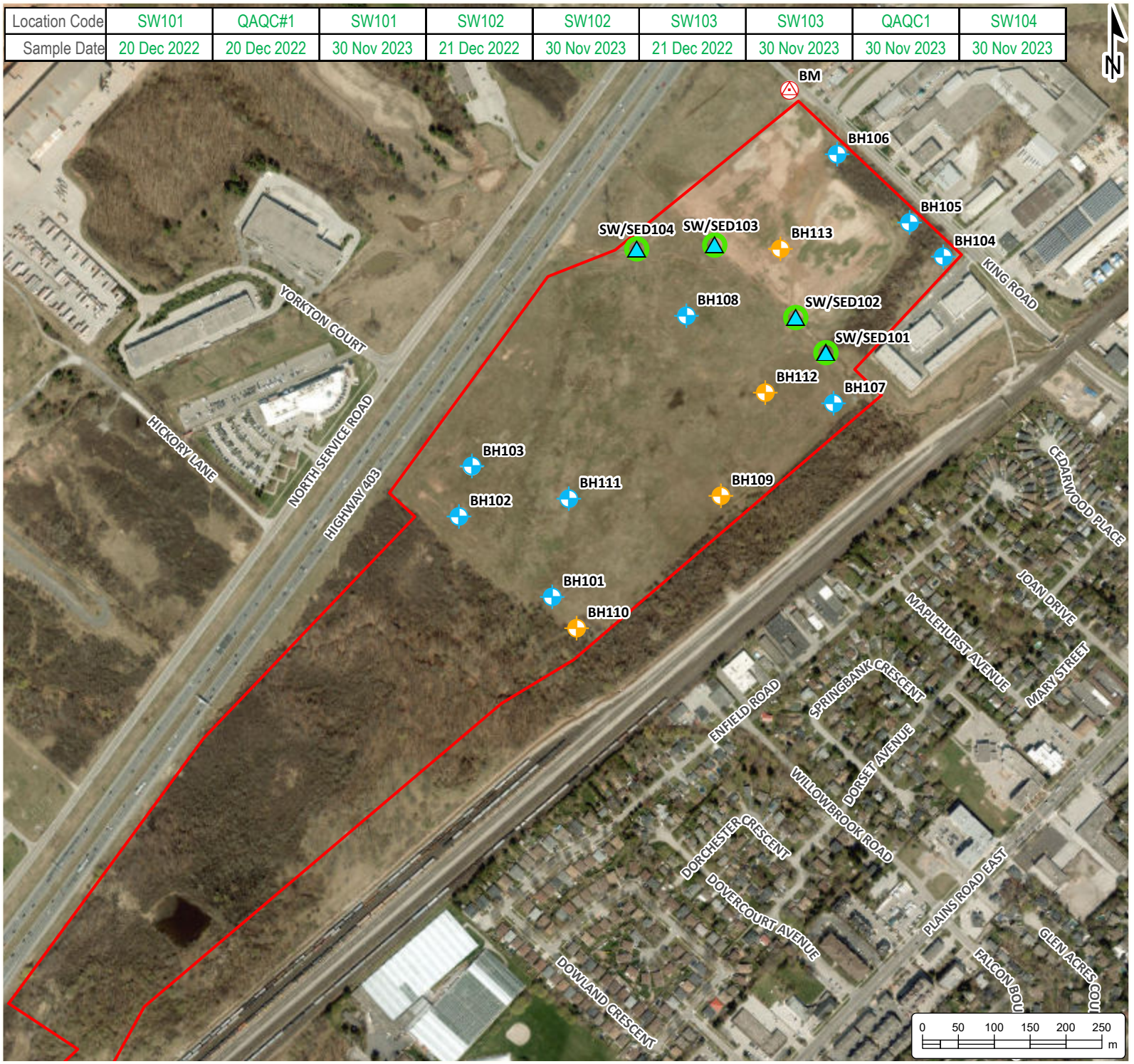
GROUNDWATER QUALITY OCs

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Location Code	SW101	QAQC#1	SW101	SW102	SW102	SW103	SW103	QAQC1	SW104
Sample Date	20 Dec 2022	20 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	30 Nov 2023	30 Nov 2023



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
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- Meets PWQO and APV
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- Site (approximate)

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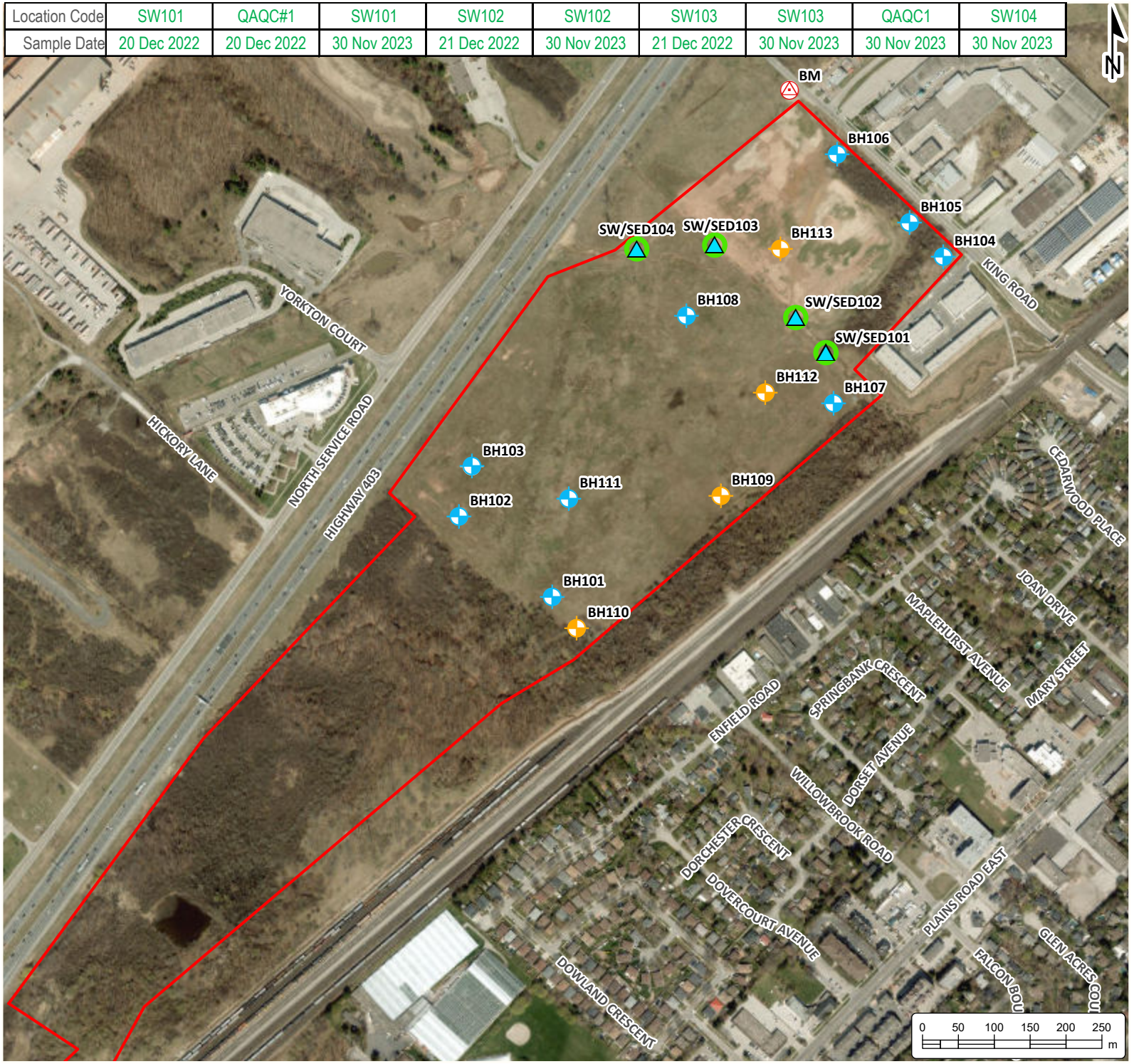
SURFACE WATER QUALITY BTEX/PHCs

Project No.: 14455-002		Date: March 2024	Rev.:
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Location Code	SW101	QAQC#1	SW101	SW102	SW102	SW103	SW103	QAQC1	SW104
Sample Date	20 Dec 2022	20 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	30 Nov 2023	30 Nov 2023



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets PWQO and APV
- Exceeds PWQO and/or APV
- Site (approximate)

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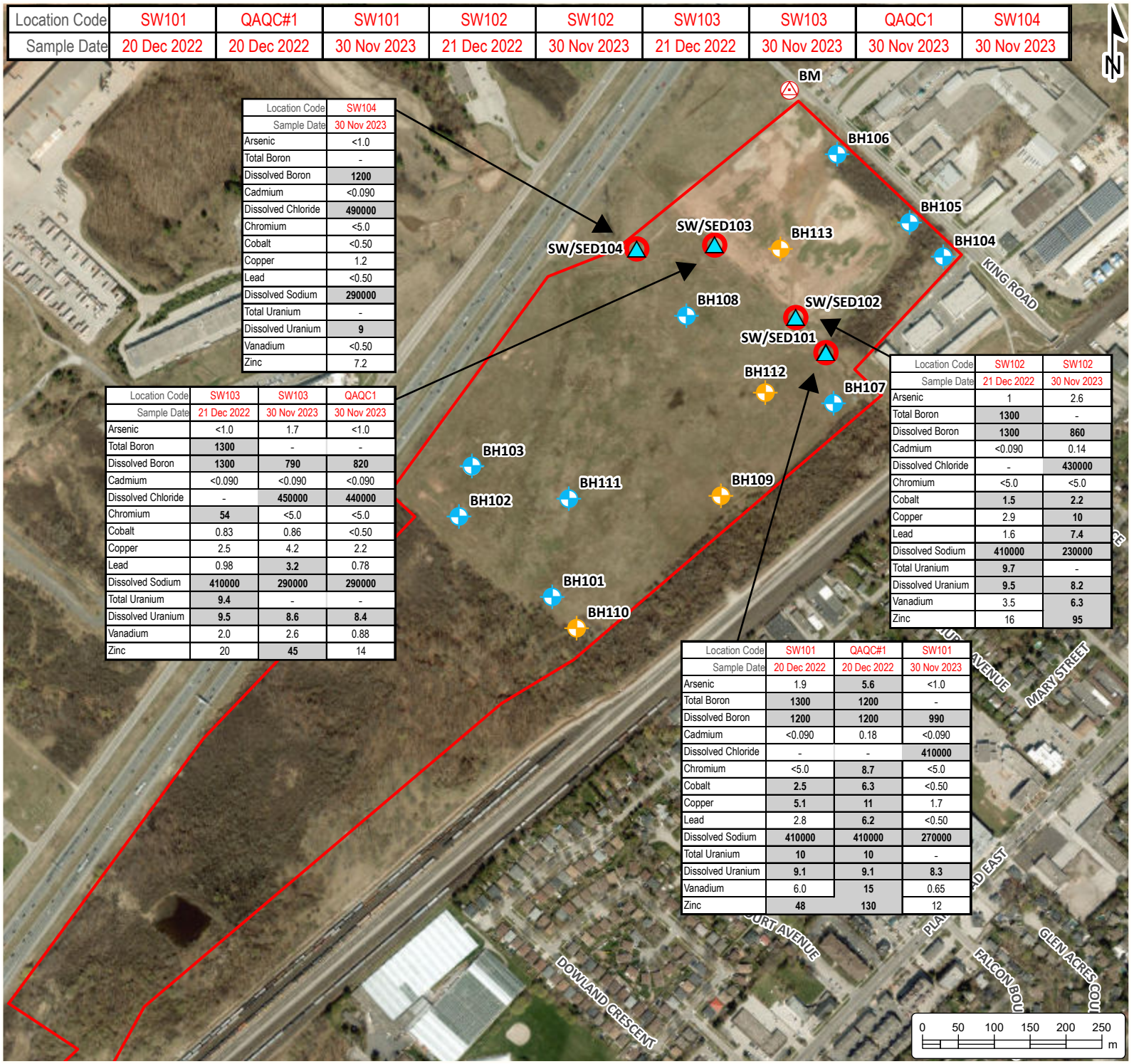
SURFACE WATER QUALITY PAHs

Project No.: 14455-002		Date: March 2024	
		Rev.:	
Scale: 1:7,500		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: SN	Figure:	22

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Location Code	SW101	QAQC#1	SW101	SW102	SW102	SW103	SW103	QAQC1	SW104
Sample Date	20 Dec 2022	20 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	30 Nov 2023	30 Nov 2023



Location Code	SW104
Sample Date	30 Nov 2023
Arsenic	<1.0
Total Boron	-
Dissolved Boron	1200
Cadmium	<0.090
Dissolved Chloride	490000
Chromium	<5.0
Cobalt	<0.50
Copper	1.2
Lead	<0.50
Dissolved Sodium	290000
Total Uranium	-
Dissolved Uranium	9
Vanadium	<0.50
Zinc	7.2

Location Code	SW103	SW103	QAQC1
Sample Date	21 Dec 2022	30 Nov 2023	30 Nov 2023
Arsenic	<1.0	1.7	<1.0
Total Boron	1300	-	-
Dissolved Boron	1300	790	820
Cadmium	<0.090	<0.090	<0.090
Dissolved Chloride	-	450000	440000
Chromium	54	<5.0	<5.0
Cobalt	0.83	0.86	<0.50
Copper	2.5	4.2	2.2
Lead	0.98	3.2	0.78
Dissolved Sodium	410000	290000	290000
Total Uranium	9.4	-	-
Dissolved Uranium	9.5	8.6	8.4
Vanadium	2.0	2.6	0.88
Zinc	20	45	14

Location Code	SW102	SW102
Sample Date	21 Dec 2022	30 Nov 2023
Arsenic	1	2.6
Total Boron	1300	-
Dissolved Boron	1300	860
Cadmium	<0.090	0.14
Dissolved Chloride	-	430000
Chromium	<5.0	<5.0
Cobalt	1.5	2.2
Copper	2.9	10
Lead	1.6	7.4
Dissolved Sodium	410000	230000
Total Uranium	9.7	-
Dissolved Uranium	9.5	8.2
Vanadium	3.5	6.3
Zinc	16	95

Location Code	SW101	QAQC#1	SW101
Sample Date	20 Dec 2022	20 Dec 2022	30 Nov 2023
Arsenic	1.9	5.6	<1.0
Total Boron	1300	1200	-
Dissolved Boron	1200	1200	990
Cadmium	<0.090	0.18	<0.090
Dissolved Chloride	-	-	410000
Chromium	<5.0	8.7	<5.0
Cobalt	2.5	6.3	<0.50
Copper	5.1	11	1.7
Lead	2.8	6.2	<0.50
Dissolved Sodium	410000	410000	270000
Total Uranium	10	10	-
Dissolved Uranium	9.1	9.1	8.3
Vanadium	6.0	15	0.65
Zinc	48	130	12

PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
1200 King Road
Burlington, Ontario

LEGEND

- Benchmark
- Borehole
- Monitoring Well
- Surface Water / Sediment Sample
- Meets PWQO and APV
- Exceeds PWQO and/or APV
- Site (approximate)

Metals	Units	PWQO	APV
Arsenic	µg/L	5	150
Total Boron	µg/L	200	3550
Dissolved Boron	µg/L	200	3550
Cadmium	µg/L	0.2	0.21
Dissolved Chloride	µg/L	6000	180000
Chromium	µg/L	1	64
Cobalt	µg/L	0.9	5.2
Copper	µg/L	5	6.9
Lead	µg/L	5	2
Dissolved Sodium	µg/L	-	180000
Total Uranium	µg/L	5	33
Dissolved Uranium	µg/L	5	33
Vanadium	µg/L	6	20
Zinc	µg/L	20	89

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SURFACE WATER QUALITY METALS/ORPs

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FIGURE 24
HUMAN HEALTH CONCEPTUAL SITE MODEL WITHOUT RISK MANAGEMENT MEASURES

MEDIUM	EXPOSURE MEDIUM	POTENTIAL EXPOSURE PATHWAYS	POTENTIAL HUMAN RECEPTORS				
			Resident (all ages)	Site Visitors/ Trespassers (all ages)	Adult Outdoor Worker	Adult Indoor Worker	Adult Subsurface Worker
SOIL	FULL DEPTH SOIL	INCIDENTAL INGESTION	✓	✓	✓	x	✓
		DERMAL CONTACT	✓	✓	✓	x	✓
		PARTICULATE INHALATION	✓	✓	✓	x	✓
		INHALATION OF INDOOR AIR	✓	✓	x	✓	x
		INHALATION OF OUTDOOR AIR	✓	✓	✓	x	✓
leaching							
GROUNDWATER	SOIL VAPOUR	INHALATION OF INDOOR AIR	✓	✓	x	✓	x
		INHALATION OF OUTDOOR AIR	✓	✓	x	✓	x
		INCIDENTAL INGESTION					
GROUNDWATER	GROUNDWATER		x	x	x	x	✓
		DERMAL CONTACT	x	x	x	x	✓
GROUNDWATER	DRINKING WATER	INGESTION	✓	✓	x	✓	x
		DERMAL CONTACT	✓	✓	x	✓	x
migration							
SEDIMENT	SEDIMENT	INCIDENTAL INGESTION	✓	✓	x	x	x
		DERMAL CONTACT	✓	✓	x	x	x
SURFACE WATER	SURFACE WATER	INCIDENTAL INGESTION	✓	✓	x	x	x
		DERMAL CONTACT	✓	✓	x	x	x

Notes:

✓ - Indicates a potential exposure of contaminant of concern to receptor.

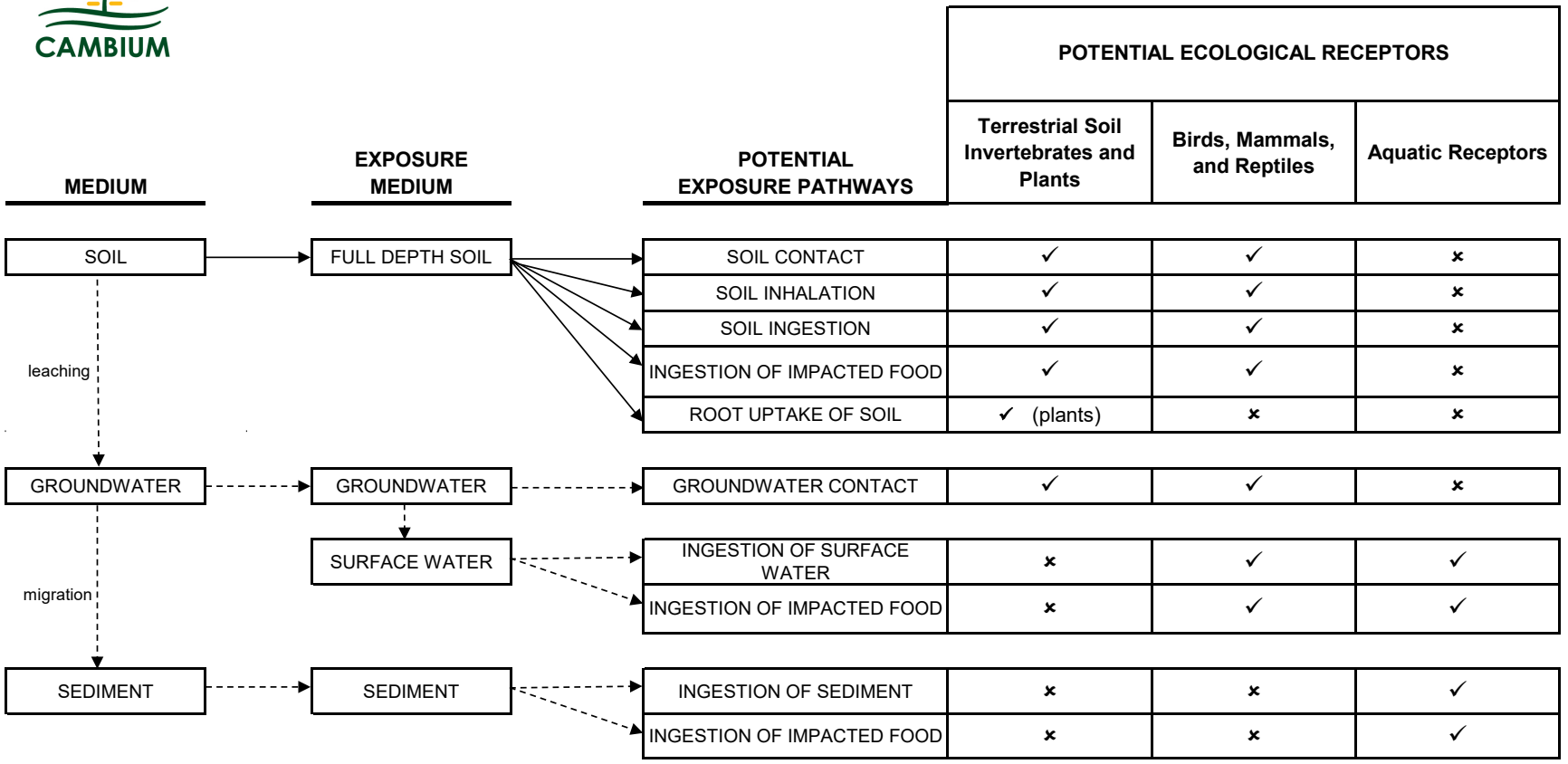
x - Indicates no exposure of contaminant of concern to receptor.

→ Indicates pathway potentially complete

⇢ Indicates pathway incomplete

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FIGURE 25
ECOLOGICAL CONCEPTUAL SITE MODEL



Notes:

✓ - Indicates a potential exposure of contaminant of concern to receptor.

x - Indicates no exposure of contaminant of concern to receptor.

——→ Indicates pathway potentially complete

- - - -→ Indicates pathway incomplete

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Appended Tables

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Table 1 - Table of Potentially Contaminating Activities

PCA ID #	Potentially Contaminating Activity[1]	Location of PCA	PCA Description	APEC[2] (Yes/No)
1	#30 – Importation of Fill Material of Unknown Quality	**On-site:** Central and northeast portion of the Site, northeast of Falcon Creek	Fill of unknown quality across the east side of the Site and brick debris	Yes
2	Not applicable – brick manufacturing	**On-site:** Central and northeast portion of the Site, northeast of Falcon Creek	Historical brick and terracotta manufacturing from 1894 to 1904	Yes
3	#12 – Concrete, Cement, and Lime Manufacturing – Sewer pipe manufacturing	**On-site:** Central and northeast portion of the Site, northeast of Falcon Creek	Historical sewer pipe manufacturing from 1904 to approximately 1972	Yes
4	#46 – Rail Yards, Tracks and Spurs	**On-site:** Central portion of the Site, east of Falcon Creek	Historical rail spur	Yes
5	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**On-site:** Southwest portion of the Site	Historical orchard observed in 1934 and 1961 aerial photographs	Yes
6	#10 – Commercial Autobody Shops	**Off-site:** 1231 King Road, 30 m northeast	Commercial automotive repair operations and towing storage yard	Yes
7	Not Applicable – Spills	**Off-site:** 1231 King Road, 30 m northeast	Reported spill of diesel fuel due to fire	Yes
8	Not Applicable – Window manufacturing	**Off-site:** 1217 King Road, 30 m northeast	Manufacturing operations	Yes
9	Not Applicable – Spills	**Off-site:** 1201 King Road, 30 m northeast	Oil runoff from a fire/explosion	Yes
10	Not Applicable – Spills	**Off-site:** 1187 King Road, 30 m northeast	Coolant and transformer leak	Yes

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Table 1 - Table of Potentially Contaminating Activities

PCA ID #	Potentially Contaminating Activity[1]	Location of PCA	PCA Description	APEC[2] (Yes/No)
11	Not Applicable – Spills	**Off-site:** 1160 King Road, adjacent to the east	Reported dumping of tar	Yes
12	Not Applicable – Salt use for deicing	**Off-site:** Highway 403, King Road	Salt use for deicing	Yes
13	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**Off-site:** Adjacent CNR corridor, near 1135 Gallagher Road	Historical orchard observed in 1934 and 1961 aerial photographs	No
14	#10 – Commercial Autobody Shops	**Off-Site:** 441 North Service Road, 120 m northwest of the Site	Commercial automotive repair operations	No
15	#58 – Waste Disposal and Waste Management, including thermal treatment, landfilling and transfer of waste, other than use of biosoils as soil conditioners	**Off-site:** 441 North Service Road, 120 m northwest of the Site	Two historical landfill sites located approximately 120 m northwest of the Site with inferred landfilling operations located over 400 m northwest of the Site. RSC identified groundwater impacts at 441 North Service Road.	No
16	#10 – Commercial Autobody Shops	**Off-site:** 1163 King Road, 30 m northeast	Commercial automotive repair operations	No
17	#34 – Metal Fabrication	**Off-site:** 1163 King Road, 30 m northeast	Metal working	No
18	#19 – Electronic and Computer Equipment Manufacturing	**Off-site:** 1163 King Road, 30 m northeast	Electronics manufacturing	No
19	Not Applicable – furniture manufacturing	**Off-site:** 1163 King Road, 30 m northeast	Cabinet, countertop manufacturing and furniture	No
20	#18 – Electricity Generation, Transformation and Power Stations	**Off-site:** 1225 King Road, 30 m northeast	Ontario Hydro substation northeast of King Road. Substation is located over 300 m northeast of the Site	No

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Table 1 - Table of Potentially Contaminating Activities

PCA ID #	Potentially Contaminating Activity[1]	Location of PCA	PCA Description	APEC[2] (Yes/No)
21	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**Off-site:** 1102 King Road, 220 m east	Suspect pesticide use at a greenhouse facility	No
22	#10 – Commercial Autobody Shops	**Off-site:** 1102 King Road, 220 m east	Commercial automotive repair operations	No
23	Not Applicable – Window manufacturing	**Off-site:** 617 Enfield Road, 215 m east	Window manufacturing	No
24	#34 – Metal Fabrication	**Off-site:** 617 Enfield Road, 215 m east	Metals products manufacturing	No
25	#34 – Metal Fabrication	**Off-site:** 483 Enfield Road, 135 m southeast	Metals products manufacturing	No
26	#31 – Ink Manufacturing, Process maying and Bulk Storage	**Off-site:** 483 Enfield Road, 135 m southeast	Printing operations	No
27	#31 – Ink Manufacturing, Process maying and Bulk Storage	**Off-site:** 463 Enfield Road, 135 m southeast	Printing operations	No
28	#19 – Electronic and Computer Equipment Manufacturing	**Off-site:** 435 Enfield Road, 135 m southeast	Electronic equipment manufacturing	No
29	#34 – Metal Fabrication	**Off-site:** 425 Enfield Road, 135 m southeast	Refrigerator manufacturing	No
30	#10 – Commercial Autobody Shops	**Off-site:** 425 Enfield Road, 135 m southeast	Commercial automotive repair operations	No
31	#31 – Ink Manufacturing, Process maying and Bulk Storage	**Off-site:** 419 Enfield Road, 135 m southeast	Printing operations	No

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Table 1 - Table of Potentially Contaminating Activities

PCA ID #	Potentially Contaminating Activity[1]	Location of PCA	PCA Description	APEC[2] (Yes/No)
32	#34 – Metal Fabrication	**Off-site:** 419 Enfield Road, 135 m southeast	Metals products manufacturing	No
33	Not Applicable – furniture manufacturing	**Off-site:** 423 Enfield Road, 135 m southeast	Furniture manufacturing	No
34	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**Off-site:** 1135 Gallagher Road, 165 m southeast	Suspect pesticide use at a greenhouse facility	No
35	#46 – Rail Yards, Tracks and Spurs	**Off-site:** adjacent to the southeast	Railway tracks and spurs. Tracks are located approximately 90 m southeast of the Site.	No

Notes:

1 - Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area

2 - Area of Potential Environmental Concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,

(a) identification of past or present uses on, in or under the phase one property, and
(b) identification of potentially contaminating activity.

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Table 2 – Areas of Potential Environmental Concern

APEC[1]	Location of APEC on the Phase One Property	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	Central and northeast portion of the Site	1	#30 - Importation of Fill Material of Unknown Quality	**On-site:** Central and northeast portion of the Site, northeast of Falcon Creek	PHCs, BTEX, PAHs, Metals, As, Se, Sb, Hg	Soil, sediment and groundwater
APEC 2	Central portion of the Site	2	Not applicable – brick manufacturing	**On-site:** Central and northeast portion of the Site, northeast of Falcon Creek	PHCs, BTEX, PAHs, Metals, As, Se, Sb	soil and groundwater
APEC 3	Central portion of the Site	3	Not Applicable – Sewer pipe manufacturing	**On-site:** Central and northeast portion of the Site, northeast of Falcon Creek	PHCs, BTEX, PAHs, Metals, As, Se, Sb	soil and groundwater
APEC 4	Central portion of the Site	4	#46 - Rail Yards, Tracks and Spurs	**On-site:** Central portion of the Site, east of Falcon Creek	PHCs, BTEX, PAHs, Metals, As, Se, Sb	soil and groundwater
APEC 5	Southwest portion of the Site	5	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**On-site:** Southwest portion of the Site	Metals, As, Se, Sb, Hg, OCs	Soil
APEC 6	Northeast portion of the Site	6	#10 – Commercial Autobody Shops	**Off-site:** 1231 King Road, 30 m northeast	PHCs, BTEX, VOCs, THMs, PAHs, Metals, As, Se, Sb, Hg	Groundwater
APEC 7	Northeast portion of the Site	7	Not Applicable – Spills	**Off-site:** 1231 King Road, 30 m northeast	PHCs, BTEX, PAHs	Groundwater
APEC 8	Northeast portion of the Site	8	Not Applicable – Window manufacturing	**Off-site:** 1217 King Road, 30 m northeast	PHCs, BTEX, VOCs, Metals, As, Se, Sb	Groundwater

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Table 2 – Areas of Potential Environmental Concern

APEC[1]	Location of APEC on the Phase One Property	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 9	Northeast portion of the Site	9	Not Applicable – Spills	**Off-site:** 1201 King Road, 30 m northeast	PHCs, BTEX, VOCs, PAHs	Groundwater
APEC 10	Northeast portion of the Site	10	Not Applicable – Spills	**Off-site:** 1187 King Road, 30 m northeast	PHCs, BTEX, PCBs	Groundwater
APEC 11	Northeast portion of the Site	11	Not Applicable – Spills	**Off-site:** 1160 King Road, adjacent to the east	PHCs, BTEX, VOCs, PAHs, Metals, As, Se, Sb	Groundwater
APEC 12	Northwest, northeast and east portions of the Site	12	Not Applicable - Salt use for deicing	**Off-site:** Highway 403, King Road	EC, SAR, Cl-, Na	soil and groundwater

Notes

1 - Area of Potential Environmental Concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,

(a) identification of past or present uses on, in or under the phase one property, and
(b) identification of potentially contaminating activity.

2 - Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area

3 - when completing this column, identify all contaminants of potential concern 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, as specified below:

ABNs	*PCBs*	*Metals*	*Electrical Conductivity*	*SAR*
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-*	*high pH*	
PHCs	*Ca, Mg*	*CN-*	*low pH*	

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Table 3 - Groundwater Elevations

Location	UTM Coordinates		Top of Casing Elevation (m rel)	Ground Surface Elevation (m)	Stick-up (m)	Depth of Well (mbgs)	Groundwater Depth (mbtop)	Groundwater Depth (mbgs)	Groundwater Elevation (masl)	Groundwater Depth (mbtop)	Groundwater Depth (mbgs)	Groundwater Elevation (masl)	Groundwater Depth (mbtop)	Groundwater Depth (mbgs)	Groundwater Elevation (masl)	Groundwater Depth (mbtop)	Groundwater Depth (mbgs)	Groundwater Elevation (masl)
							2022-12-20			2023-01-05			2023-02-01			2023-02-27		
BH101	17T	593585.71 m E, 4797178.17 m N	106.58	105.38	1.20	4.42	4.46	3.26	102.12	2.58	1.38	104.00	2.72	1.52	103.86	1.71	0.51	104.87
BH102	17T	593491.74 m E, 4797267.16 m N	110.87	109.88	1.00	4.57	4.05	3.05	106.82	3.49	2.49	107.38	3.61	2.61	107.26	2.83	1.83	108.04
BH103	17T	593512.77 m E, 4797332.66 m N	111.85	110.97	0.88	6.71	4.44	3.56	107.41	4.24	3.36	107.61	3.91	3.03	107.94	2.71	1.83	109.14
BH104	17T	594113.39 m E, 4797638.23 m N	102.53	101.36	1.17	4.42	DRY	DRY	NA	5.35	4.18	97.18	5.16	3.99	97.37	3.82	2.65	98.71
BH105	17T	594071.69 m E, 4797694.36 m N	102.85	101.74	1.11	4.57	DRY	DRY	NA	5.23	4.12	97.62	5.15	4.04	97.70	4.62	3.51	98.23
BH106	17T	593999.82 m E, 4797794.06 m N	102.86	101.94	0.92	3.96	DRY	DRY	NA	3.72	2.80	99.14	DRY	DRY	NA	4.48	3.56	98.38
BH107	17T	594008.30 m E, 4797439.94 m N	102.02	100.84	1.18	3.96	2.95	1.77	99.07	2.68	1.50	99.34	DRY	DRY	NA	1.54	0.36	100.48
BH108	17T	593745.06 m E, 4797628.36 m N	105.63	104.64	0.99	4.42	6.19	5.20	99.44	1.14	0.15	104.49	1.09	0.10	104.54	1.00	0.01	104.63
BH111	17T	593774.11 m E, 4797476.30 m N	103.95	102.84	1.11	5.18	DRY	DRY	NA	DRY	DRY	NA	4.15	3.04	99.80	2.45	1.34	101.50

UTM - Universal Transverse Mercator
mbtop - metres below top of pipe
mbgs - metres below ground surface
mrtBM - metres relative to Bench Mark (top of nut of fire hydrant in front of 14160 Old Scugog Road) with assumed elevation of 100.00 m
NA - Not applicable
DRY - Monitoring well dry as of date monitored

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Table 4 - Soil Quality

					Location Code	BH101	BH101	BH101	BH102	BH102
					Field ID	BH101_1.52-2.13	BH101_2.29-2.90	QA/QC#3	BH102_0.76-1.37	BH102_3.81-4.42
					Depth	1.52 - 2.13	2.29 - 2.9	1.52 - 2.13	0.76 - 1.37	3.81 - 4.42
					Date	15 Dec 2022	15 Dec 2022	15 Dec 2022	15 Dec 2022	15 Dec 2022
	Unit	*EQL*	**Table 1 - RPIICC**	Table 6 - RPI, coarse soil						
BTEX										
Benzene	µg/g	*0.006*	**0.02**	0.21	-	<0.020	-	-	<0.020
Toluene	µg/g	*0.02*	**0.2**	2.3	-	<0.020	-	-	<0.020
Ethylbenzene	µg/g	*0.01*	**0.05**	1.1	-	<0.020	-	-	<0.020
Xylene Total	µg/g	*0.02*	**0.05**[#1]	3.1[#1]	-	<0.040	-	-	<0.040
PHCs										
F1	µg/g	*10*	**25**[#2]	55[#2]	-	<10	-	-	<10
F1 minus BTEX	µg/g	*10*	**25**[#2]	55[#2]	-	<10	-	-	<10
F2	µg/g	*10*	**10**[#3]	98[#3]	-	<10	-	-	<10
F3	µg/g	*50*	**240**[#4]	300[#4]	-	50	-	-	<50
F4	µg/g	*50*	**120**	2,800	-	<50	-	-	<50
PAH										
Acenaphthene	µg/g	*0.005*	**0.072**	7.9	-	<0.0050	-	-	<0.0050
Acenaphthylene	µg/g	*0.005*	**0.093**	0.15	-	<0.0050	-	-	<0.0050
Anthracene	µg/g	*0.005*	**0.16**	0.67	-	<0.0050	-	-	<0.0050
Benz(a)anthracene	µg/g	*0.005*	**0.36**	0.5	-	<0.0050	-	-	<0.0050
Benzo(a)pyrene	µg/g	*0.005*	**0.3**	0.3	-	<0.0050	-	-	<0.0050
Benzo(b+j)fluoranthene	ug/g	*0.005*	**0.47**[#5]	0.78[#9]	-	<0.0050	-	-	<0.0050
Benzo(g,h,i)perylene	µg/g	*0.005*	**0.68**	6.6	-	<0.0050	-	-	<0.0050
Benzo(k)fluoranthene	µg/g	*0.005*	**0.48**	0.78	-	<0.0050	-	-	<0.0050
Chrysene	µg/g	*0.005*	**2.8**	7	-	<0.0050	-	-	<0.0050
Dibenz(a,h)anthracene	µg/g	*0.005*	**0.1**	0.1	-	<0.0050	-	-	<0.0050
Fluoranthene	µg/g	*0.005*	**0.56**	0.69	-	<0.0050	-	-	<0.0050
Fluorene	µg/g	*0.005*	**0.12**	62	-	<0.0050	-	-	<0.0050
Indeno(1,2,3-c,d)pyrene	µg/g	*0.005*	**0.23**	0.38	-	<0.0050	-	-	<0.0050
Methylnaphthalene -1	µg/g	*0.005*	**0.59**[#6]	0.99[#6]	-	<0.0050	-	-	<0.0050
Methylnaphthalene -2	µg/g	*0.005*	**0.59**[#6]	0.99[#6]	-	<0.0050	-	-	<0.0050
Methylnaphthalene 1 & 2	µg/g	*0.0071*	**0.59**[#6]	0.99[#6]	-	<0.0071	-	-	<0.0071
Naphthalene	µg/g	*0.005*	**0.09**	0.6	-	<0.0050	-	-	<0.0050
Phenanthrene	µg/g	*0.005*	**0.69**	6.2	-	<0.0050	-	-	<0.0050
Pyrene	µg/g	*0.005*	**1**	78	-	*0.0074*	-	-	<0.0050
PCBs										
PCBs total	µg/g	*0.015*	**0.3**[#7]	0.35[#7]	-	<0.015	-	-	-
Arochlor 1242	µg/g	*0.015*			-	<0.015	-	-	-
Arochlor 1248	µg/g	*0.015*			-	<0.015	-	-	-
Arochlor 1254	µg/g	*0.015*			-	<0.015	-	-	-
Arochlor 1260	µg/g	*0.015*			-	<0.015	-	-	-
Organochlorine Pesticides										
DDD (total)	µg/g	*0.002*	**0.05**	3.3	-	<0.0020	-	-	-
DDE (total)	µg/g	*0.002*	**0.05**	0.26	-	<0.0020	-	-	-
DDT_	µg/g	*0.002*	**1.4**	1.4	-	<0.0020	-	-	-
Aldrin	µg/g	*0.002*	**0.05**	0.05	-	<0.0020	-	-	-
Chlordane (Total)	µg/g	*0.002*	**0.05**	0.05	-	<0.0020	-	-	-
Chlordane (Alpha)	µg/g	*0.002*			-	<0.0020	-	-	-
Chlordane (Gamma)_	µg/g	*0.002*			-	<0.0020	-	-	-
Dieldrin	µg/g	*0.002*	**0.05**	0.05	-	<0.0020	-	-	-
Endosulfan	µg/g	*0.002*	**0.04**	0.04	-	<0.0020	-	-	-
Endosulfan I	µg/g	*0.002*			-	<0.0020	-	-	-
Endosulfan II	µg/g	*0.002*			-	<0.0020	-	-	-
Endrin	µg/g	*0.002*	**0.04**	0.04	-	<0.0020	-	-	-
Heptachlor	µg/g	*0.002*	**0.05**	0.15	-	<0.0020	-	-	-
Heptachlor epoxide	µg/g	*0.002*	**0.05**	0.05	-	<0.0020	-	-	-
Hexachlorobenzene	µg/g	*0.002*	**0.01**	0.52	-	<0.0020	-	-	-
Hexachlorobutadiene	µg/g	*0.002*	**0.01**	0.012	-	<0.0020	-	-	-
Hexachlorocyclohexane (g-BHC, Lindane)	µg/g	*0.002*	**0.01**	0.056	-	<0.0020	-	-	-
Hexachloroethane	µg/g	*0.002*	**0.01**	0.089	-	<0.0020	-	-	-
Methoxychlor	µg/g	*0.005*	**0.05**	0.13	-	<0.0050	-	-	-
VOCs										
Acetone	µg/g	*0.49*	**0.5**	16	-	-	-	-	-
Bromomethane	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-
Bromoform	µg/g	*0.04*	**0.05**	0.27	-	-	-	-	-
Bromodichloromethane	µg/g	*0.04*	**0.05**	1.5	-	-	-	-	-
Carbon tetrachloride	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-
Chlorobenzene	µg/g	*0.04*	**0.05**	2.4	-	-	-	-	-
Chloroform	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-
Dibromoethane,1,2-	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-
Dibromochloromethane	µg/g	*0.04*	**0.05**	2.3	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/g	*0.04*	**0.05**	1.2	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/g	*0.04*	**0.05**	4.8	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/g	*0.04*	**0.05**	0.083	-	-	-	-	-
Dichlorodifluoromethane	µg/g	*0.04*	**0.05**	16	-	-	-	-	-
Dichloroethane, 1,1-	µg/g	*0.04*	**0.05**	0.47	-	-	-	-	-
Dichloroethane, 1,2-	µg/g	*0.049*	**0.05**	0.05	-	-	-	-	-
Dichloroethylene, 1,1-	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-
Dichloroethylene, 1,2-trans-	µg/g	*0.04*	**0.05**	0.084	-	-	-	-	-
Dichloroethylene, 1,2-cis-	µg/g	*0.04*	**0.05**	1.9	-	-	-	-	-
Dichloromethane	µg/g	*0.049*	**0.05**	0.1	-	-	-	-	-
Dichloropropane, 1,2-	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-
Dichloropropene, 1,3- cis	µg/g	*0.03*			-	-	-	-	-
Dichloropropene, 1,3- trans	µg/g	*0.04*			-	-	-	-	-
Dichloropropene, 1,3- cis & trans	µg/g	*0.05*	**0.05**[#8]	0.05[#8]	-	-	-	-	-
Hexane	µg/g	*0.04*	**0.05**	2.8	-	-	-	-	-
Methyl Ethyl Ketone	µg/g	*0.4*	**0.5**	16	-	-	-	-	-
Methyl Iso-Butyl Ketone	µg/g	*0.4*	**0.5**	1.7	-	-	-	-	-
MTBE	µg/g	*0.04*	**0.05**	0.75	-	-	-	-	-
Styrene	µg/g	*0.04*	**0.05**	0.7	-	-	-	-	-
Tetrachloroethylene	µg/g	*0.04*	**0.05**	0.28	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/g	*0.04*	**0.05**	0.058	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/g	*0.04*	**0.05**	0.38	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-
Trichloroethylene	µg/g	*0.01*	**0.05**	0.061	-	-	-	-	-
Trichlorofluoromethane	µg/g	*0.04*	**0.25**	4	-	-	-	-	-
Vinyl chloride	µg/g	*0.019*	**0.02**	0.02	-	-	-	-	-
Metals										
Antimony	µg/g	*0.2*	**1.3**	7.5	*0.32*	-	*0.37*	*0.38*	-
Arsenic	µg/g	*1*	**18**	18	*3.8*	-	*4.8*	*5*	-
Barium	µg/g	*0.5*	**220**	390	*110*	-	*97*	*83*	-
Beryllium	µg/g	*0.2*	**2.5**	4	*0.68*	-	*0.79*	*0.96*	-
Boron	µg/g	*5*	**36**	120[#10]	*22*	-	*27*	*25*	-
Cadmium	µg/g	*0.1*	**1.2**	1.2	<0.10	-	<0.10	<0.10	-
Chromium (III+VI)	µg/g	*1*	**70**	160	*21*	-	*23*	*26*	-
Cobalt	µg/g	*0.1*	**21**	22	*13*	-	*14*	*16*	-
Copper	µg/g	*0.5*	**92**	140	*16*	-	*11*	*9.2*	-
Lead	µg/g	*1*	**120**	120	*7.7*	-	*7.5*	*9.5*	-
Molybdenum	µg/g	*0.5*	**2**	6.9	*0.79*	-	*0.74*	*0.95*	-
Nickel	µg/g	*0.5*	**82**	100	*27*	-	*31*	*36*	-
Selenium	µg/g	*0.5*	**1.5**	2.4	<0.50	-	<0.50	<0.50	-
Silver	µg/g	*0.2*	**0.5**	20	<0.20	-	<0.20	<0.20	-
Thallium	µg/g	*0.05*	**1**	1	*0.11*	-	*0.11*	*0.11*	-
Uranium	µg/g	*0.05*	**2.5**	23	*0.7*	-	*0.69*	*0.91*	-
Vanadium	µg/g	*5*	**86**	86	*26*	-	*28*	*32*	-
Zinc	µg/g	*5*	**290**	340	*57*	-	*61*	*68*	-
ORPs										
Electrical Conductivity (Lab)	µS/cm	*2*	**570**	700	*280*	-	*280*	-	-
Mercury	µg/g	*0.05*	**0.27**	0.27	<0.050	-	<0.050	-	-
pH (Lab)	-		**5-9**	5-9	7.78	-	7.77	-	-
Sodium Adsorption Ratio	-		**2.4**	5	0.76	-	0.76	-	-
Other										
Moisture	%	*1*			-	*14*	-	-	*17*

Comments
#1 Standard is applicable to total xylenes; m & p-xylenes and o-xylenes should be summed for comparison.
#2 Standard is applicable to PHC in the F1 range minus BTEX.
#3 Standard is applicable to PHC F2 minus naphthalene. If naphthalene is not analyzed, the standard is applied to F2.
#4 Standard is applicable to PHC F3 minus PAHs (other than naphthalene). If PAHs have not been measured, the standard is applied to F3.
#5 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(k)fluoranthene.
#6 Standard is applicable to Methylnaphthalene, 1- and Methylnaphthalene, 2-. If both are detected, the sum of the two must not exceed the standard.
#7 Standard is applicable to total PCBs, Individual aroclors should be added for comparison.
#8 Standard is applicable to 1,3-Dichloropropene. Individual isomers (cis + trans) should be added for comparison.
#9 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(j)fluoranthene.
#10 Total Boron standard is for sub-surface soil (>1.5 m).

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Table 4 - Soil Quality

					Location Code	BH103	BH103	BH104	BH104	BH104
					Field ID	BH103_1.52-2.13	BH103_6.10-6.71	BH104_0.76-1.37	BH104_2.23-2.90	BH104_3.81-4.42
					Depth	1.52 - 2.13	6.1 - 6.71	0.76 - 1.37	2.23 - 2.9	3.81 - 4.42
					Date	14 Dec 2022	14 Dec 2022	13 Dec 2022	13 Dec 2022	13 Dec 2022
	Unit	*EQL*	**Table 1 - RPIICC**	Table 6 - RPI, coarse soil						
BTEX										
Benzene	µg/g	*0.006*	**0.02**	0.21	-	<0.020	-	<0.020	<0.020	
Toluene	µg/g	*0.02*	**0.2**	2.3	-	<0.020	-	<0.020	<0.020	
Ethylbenzene	µg/g	*0.01*	**0.05**	1.1	-	<0.020	-	<0.020	<0.020	
Xylene Total	µg/g	*0.02*	**0.05**[#1]	3.1[#1]	-	<0.040	-	<0.040	<0.040	
PHCs										
F1	µg/g	*10*	**25**[#2]	55[#2]	-	<10	-	<10	<10	
F1 minus BTEX	µg/g	*10*	**25**[#2]	55[#2]	-	<10	-	<10	<10	
F2	µg/g	*10*	**10**[#3]	98[#3]	-	<10	-	**11**	<10	
F3	µg/g	*50*	**240**[#4]	300[#4]	-	<50	-	*87*	<50	
F4	µg/g	*50*	**120**	2,800	-	<50	-	<50	<50	
PAH										
Acenaphthene	µg/g	*0.005*	**0.072**	7.9	-	<0.0050	-	<0.0050	-	
Acenaphthylene	µg/g	*0.005*	**0.093**	0.15	-	<0.0050	-	<0.0050	-	
Anthracene	µg/g	*0.005*	**0.16**	0.67	-	<0.0050	-	<0.0050	-	
Benz(a)anthracene	µg/g	*0.005*	**0.36**	0.5	-	<0.0050	-	<0.0050	-	
Benzo(a)pyrene	µg/g	*0.005*	**0.3**	0.3	-	<0.0050	-	<0.0050	-	
Benzo(b+j)fluoranthene	ug/g	*0.005*	**0.47**[#5]	0.78[#9]	-	<0.0050	-	<0.0050	-	
Benzo(g,h,i)perylene	µg/g	*0.005*	**0.68**	6.6	-	<0.0050	-	<0.0050	-	
Benzo(k)fluoranthene	µg/g	*0.005*	**0.48**	0.78	-	<0.0050	-	<0.0050	-	
Chrysene	µg/g	*0.005*	**2.8**	7	-	<0.0050	-	<0.0050	-	
Dibenz(a,h)anthracene	µg/g	*0.005*	**0.1**	0.1	-	<0.0050	-	<0.0050	-	
Fluoranthene	µg/g	*0.005*	**0.56**	0.69	-	<0.0050	-	<0.0050	-	
Fluorene	µg/g	*0.005*	**0.12**	62	-	<0.0050	-	<0.0050	-	
Indeno(1,2,3-c,d)pyrene	µg/g	*0.005*	**0.23**	0.38	-	<0.0050	-	<0.0050	-	
Methylnaphthalene -1	µg/g	*0.005*	**0.59**[#6]	0.99[#6]	-	<0.0050	-	<0.0050	-	
Methylnaphthalene -2	µg/g	*0.005*	**0.59**[#6]	0.99[#6]	-	<0.0050	-	<0.0050	-	
Methylnaphthalene 1 & 2	µg/g	*0.0071*	**0.59**[#6]	0.99[#6]	-	<0.0071	-	<0.0071	-	
Naphthalene	µg/g	*0.005*	**0.09**	0.6	-	<0.0050	-	<0.0050	-	
Phenanthrene	µg/g	*0.005*	**0.69**	6.2	-	<0.0050	-	<0.0050	-	
Pyrene	µg/g	*0.005*	**1**	78	-	<0.0050	-	<0.0050	-	
PCBs										
PCBs total	µg/g	*0.015*	**0.3**[#7]	0.35[#7]	-	-	-	-	-	
Arochlor 1242	µg/g	*0.015*			-	-	-	-	-	
Arochlor 1248	µg/g	*0.015*			-	-	-	-	-	
Arochlor 1254	µg/g	*0.015*			-	-	-	-	-	
Arochlor 1260	µg/g	*0.015*			-	-	-	-	-	
Organochlorine Pesticides										
DDD (total)	µg/g	*0.002*	**0.05**	3.3	-	-	-	-	-	
DDE (total)	µg/g	*0.002*	**0.05**	0.26	-	-	-	-	-	
DDT_	µg/g	*0.002*	**1.4**	1.4	-	-	-	-	-	
Aldrin	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-	
Chlordane (Total)	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-	
Chlordane (Alpha)	µg/g	*0.002*			-	-	-	-	-	
Chlordane (Gamma)_	µg/g	*0.002*			-	-	-	-	-	
Dieldrin	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-	
Endosulfan	µg/g	*0.002*	**0.04**	0.04	-	-	-	-	-	
Endosulfan I	µg/g	*0.002*			-	-	-	-	-	
Endosulfan II	µg/g	*0.002*			-	-	-	-	-	
Endrin	µg/g	*0.002*	**0.04**	0.04	-	-	-	-	-	
Heptachlor	µg/g	*0.002*	**0.05**	0.15	-	-	-	-	-	
Heptachlor epoxide	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-	
Hexachlorobenzene	µg/g	*0.002*	**0.01**	0.52	-	-	-	-	-	
Hexachlorobutadiene	µg/g	*0.002*	**0.01**	0.012	-	-	-	-	-	
Hexachlorocyclohexane (g-BHC, Lindane)	µg/g	*0.002*	**0.01**	0.056	-	-	-	-	-	
Hexachloroethane	µg/g	*0.002*	**0.01**	0.089	-	-	-	-	-	
Methoxychlor	µg/g	*0.005*	**0.05**	0.13	-	-	-	-	-	
VOCs										
Acetone	µg/g	*0.49*	**0.5**	16	-	-	-	-	-	
Bromomethane	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-	
Bromoform	µg/g	*0.04*	**0.05**	0.27	-	-	-	-	-	
Bromodichloromethane	µg/g	*0.04*	**0.05**	1.5	-	-	-	-	-	
Carbon tetrachloride	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-	
Chlorobenzene	µg/g	*0.04*	**0.05**	2.4	-	-	-	-	-	
Chloroform	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-	
Dibromoethane,1,2-	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-	
Dibromochloromethane	µg/g	*0.04*	**0.05**	2.3	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/g	*0.04*	**0.05**	1.2	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/g	*0.04*	**0.05**	4.8	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/g	*0.04*	**0.05**	0.083	-	-	-	-	-	
Dichlorodifluoromethane	µg/g	*0.04*	**0.05**	16	-	-	-	-	-	
Dichloroethane, 1,1-	µg/g	*0.04*	**0.05**	0.47	-	-	-	-	-	
Dichloroethane, 1,2-	µg/g	*0.049*	**0.05**	0.05	-	-	-	-	-	
Dichloroethylene, 1,1-	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-	
Dichloroethylene, 1,2-trans-	µg/g	*0.04*	**0.05**	0.084	-	-	-	-	-	
Dichloroethylene, 1,2-cis-	µg/g	*0.04*	**0.05**	1.9	-	-	-	-	-	
Dichloromethane	µg/g	*0.049*	**0.05**	0.1	-	-	-	-	-	
Dichloropropane, 1,2-	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-	
Dichloropropene, 1,3- cis	µg/g	*0.03*			-	-	-	-	-	
Dichloropropene, 1,3- trans	µg/g	*0.04*			-	-	-	-	-	
Dichloropropene, 1,3- cis & trans	µg/g	*0.05*	**0.05**[#8]	0.05[#8]	-	-	-	-	-	
Hexane	µg/g	*0.04*	**0.05**	2.8	-	-	-	-	-	
Methyl Ethyl Ketone	µg/g	*0.4*	**0.5**	16	-	-	-	-	-	
Methyl Iso-Butyl Ketone	µg/g	*0.4*	**0.5**	1.7	-	-	-	-	-	
MTBE	µg/g	*0.04*	**0.05**	0.75	-	-	-	-	-	
Styrene	µg/g	*0.04*	**0.05**	0.7	-	-	-	-	-	
Tetrachloroethylene	µg/g	*0.04*	**0.05**	0.28	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/g	*0.04*	**0.05**	0.058	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-	
Trichloroethane, 1,1,1-	µg/g	*0.04*	**0.05**	0.38	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/g	*0.04*	**0.05**	0.05	-	-	-	-	-	
Trichloroethylene	µg/g	*0.01*	**0.05**	0.061	-	-	-	-	-	
Trichlorofluoromethane	µg/g	*0.04*	**0.25**	4	-	-	-	-	-	
Vinyl chloride	µg/g	*0.019*	**0.02**	0.02	-	-	-	-	-	
Metals										
Antimony	µg/g	*0.2*	**1.3**	7.5	*0.72*	-	<0.20	-	-	
Arsenic	µg/g	*1*	**18**	18	*4.8*	-	*3.3*	-	-	
Barium	µg/g	*0.5*	**220**	390	*130*	-	*45*	-	-	
Beryllium	µg/g	*0.2*	**2.5**	4	*0.87*	-	*0.39*	-	-	
Boron	µg/g	*5*	**36**	120[#10]	*28*	-	*8.5*	-	-	
Cadmium	µg/g	*0.1*	**1.2**	1.2	*0.11*	-	<0.10	-	-	
Chromium (III+VI)	µg/g	*1*	**70**	160	*24*	-	*13*	-	-	
Cobalt	µg/g	*0.1*	**21**	22	*14*	-	*6.8*	-	-	
Copper	µg/g	*0.5*	**92**	140	*10*	-	*6.2*	-	-	
Lead	µg/g	*1*	**120**	120	*13*	-	*5.2*	-	-	
Molybdenum	µg/g	*0.5*	**2**	6.9	*1*	-	*0.88*	-	-	
Nickel	µg/g	*0.5*	**82**	100	*30*	-	*12*	-	-	
Selenium	µg/g	*0.5*	**1.5**	2.4	<0.50	-	<0.50	-	-	
Silver	µg/g	*0.2*	**0.5**	20	<0.20	-	<0.20	-	-	
Thallium	µg/g	*0.05*	**1**	1	*0.12*	-	*0.06*	-	-	
Uranium	µg/g	*0.05*	**2.5**	23	*0.72*	-	*0.72*	-	-	
Vanadium	µg/g	*5*	**86**	86	*32*	-	*22*	-	-	
Zinc	µg/g	*5*	**290**	340	*73*	-	*24*	-	-	
ORPs										
Electrical Conductivity (Lab)	µS/cm	*2*	**570**	700	-	-	-	-	-	
Mercury	µg/g	*0.05*	**0.27**	0.27	-	-	-	-	-	
pH (Lab)	-		**5-9**	5-9	-	-	-	-	-	
Sodium Adsorption Ratio	-		**2.4**	5	-	-	-	-	-	
Other										
Moisture	%	*1*			-	*14*	-	*13*	*15*	

Comments
#1 Standard is applicable to total xylenes; m & p-xylenes and o-xylenes should be summed for comparison.
#2 Standard is applicable to PHC in the F1 range minus BTEX.
#3 Standard is applicable to PHC F2 minus naphthalene. If naphthalene is not analyzed, the standard is applied to F2.
#4 Standard is applicable to PHC F3 minus PAHs (other than naphthalene). If PAHs have not been measured, the standard is applied to F3.
#5 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(k)fluoranthene.
#6 Standard is applicable to Methylnaphthalene, 1- and Methylnaphthalene, 2-. If both are detected, the sum of the two must not exceed the standard.
#7 Standard is applicable to total PCBs, Individual aroclors should be added for comparison.
#8 Standard is applicable to 1,3-Dichloropropene. Individual isomers (cis + trans) should be added for comparison.
#9 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(j)fluoranthene.
#10 Total Boron standard is for sub-surface soil (>1.5 m).

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Table 4 - Soil Quality

					Location Code	BH107	BH107	BH107	BH108	BH108
					Field ID	BH107_0-0.61	BH107_2.24-2.90	QA/QC# 1	BH108_2.29-2.90	BH108_6.70-7.32
					Depth	0 - 0.61	2.24 - 2.9	0 - 0.61	2.29 - 2.9	6.7 - 7.32
					Date	14 Dec 2022	14 Dec 2022	14 Dec 2022	14 Dec 2022	14 Dec 2022
	Unit	*EQL*	**Table 1 - RPIICC**	Table 6 - RPI, coarse soil						
BTEX										
Benzene	µg/g	*0.006*	**0.02**	0.21	<0.0060	<0.0060	<0.0060	<0.0060	<0.020
Toluene	µg/g	*0.02*	**0.2**	2.3	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylbenzene	µg/g	*0.01*	**0.05**	1.1	<0.010	<0.010	<0.010	<0.010	<0.020
Xylene Total	µg/g	*0.02*	**0.05**[#1]	3.1[#1]	<0.020	<0.020	<0.020	<0.020	<0.040
PHCs									
F1	µg/g	*10*	**25**[#2]	55[#2]	<10	<10	<10	<10	<10
F1 minus BTEX	µg/g	*10*	**25**[#2]	55[#2]	<10	<10	<10	<10	<10
F2	µg/g	*10*	**10**[#3]	98[#3]	<10	<10	<10	**12**	<10
F3	µg/g	*50*	**240**[#4]	300[#4]	<50	<50	<50	*81*	<50
F4	µg/g	*50*	**120**	2,800	<50	<50	<50	<50	<50
PAH									
Acenaphthene	µg/g	*0.005*	**0.072**	7.9	<0.0050	<0.0050	<0.0050	<0.0050	-
Acenaphthylene	µg/g	*0.005*	**0.093**	0.15	<0.0050	<0.0050	<0.0050	<0.0050	-
Anthracene	µg/g	*0.005*	**0.16**	0.67	<0.0050	<0.0050	<0.0050	<0.0050	-
Benz(a)anthracene	µg/g	*0.005*	**0.36**	0.5	<0.0050	<0.0050	<0.0050	<0.0050	-
Benzo(a)pyrene	µg/g	*0.005*	**0.3**	0.3	<0.0050	<0.0050	<0.0050	<0.0050	-
Benzo(b+j)fluoranthene	ug/g	*0.005*	**0.47**[#5]	0.78[#9]	*0.0058*	<0.0050	*0.007*	<0.0050	-
Benzo(g,h,i)perylene	µg/g	*0.005*	**0.68**	6.6	<0.0050	<0.0050	<0.0050	<0.0050	-
Benzo(k)fluoranthene	µg/g	*0.005*	**0.48**	0.78	<0.0050	<0.0050	<0.0050	<0.0050	-
Chrysene	µg/g	*0.005*	**2.8**	7	<0.0050	<0.0050	<0.0050	<0.0050	-
Dibenz(a,h)anthracene	µg/g	*0.005*	**0.1**	0.1	<0.0050	<0.0050	<0.0050	<0.0050	-
Fluoranthene	µg/g	*0.005*	**0.56**	0.69	*0.0063*	<0.0050	*0.01*	<0.0050	-
Fluorene	µg/g	*0.005*	**0.12**	62	<0.0050	<0.0050	<0.0050	<0.0050	-
Indeno(1,2,3-c,d)pyrene	µg/g	*0.005*	**0.23**	0.38	<0.0050	<0.0050	<0.0050	<0.0050	-
Methylnaphthalene -1	µg/g	*0.005*	**0.59**[#6]	0.99[#6]	<0.0050	<0.0050	<0.0050	<0.0050	-
Methylnaphthalene -2	µg/g	*0.005*	**0.59**[#6]	0.99[#6]	<0.0050	<0.0050	<0.0050	<0.0050	-
Methylnaphthalene 1 & 2	µg/g	*0.0071*	**0.59**[#6]	0.99[#6]	<0.0071	<0.0071	<0.0071	<0.0071	-
Naphthalene	µg/g	*0.005*	**0.09**	0.6	<0.0050	<0.0050	<0.0050	<0.0050	-
Phenanthrene	µg/g	*0.005*	**0.69**	6.2	<0.0050	<0.0050	*0.0057*	<0.0050	-
Pyrene	µg/g	*0.005*	**1**	78	*0.0054*	<0.0050	*0.0077*	<0.0050	-
PCBs									
PCBs total	µg/g	*0.015*	**0.3**[#7]	0.35[#7]	-	-	-	-	-
Arochlor 1242	µg/g	*0.015*			-	-	-	-	-
Arochlor 1248	µg/g	*0.015*			-	-	-	-	-
Arochlor 1254	µg/g	*0.015*			-	-	-	-	-
Arochlor 1260	µg/g	*0.015*			-	-	-	-	-
Organochlorine Pesticides									
DDD (total)	µg/g	*0.002*	**0.05**	3.3	-	-	-	-	-
DDE (total)	µg/g	*0.002*	**0.05**	0.26	-	-	-	-	-
DDT_	µg/g	*0.002*	**1.4**	1.4	-	-	-	-	-
Aldrin	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-
Chlordane (Total)	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-
Chlordane (Alpha)	µg/g	*0.002*			-	-	-	-	-
Chlordane (Gamma)_	µg/g	*0.002*			-	-	-	-	-
Dieldrin	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-
Endosulfan	µg/g	*0.002*	**0.04**	0.04	-	-	-	-	-
Endosulfan I	µg/g	*0.002*			-	-	-	-	-
Endosulfan II	µg/g	*0.002*			-	-	-	-	-
Endrin	µg/g	*0.002*	**0.04**	0.04	-	-	-	-	-
Heptachlor	µg/g	*0.002*	**0.05**	0.15	-	-	-	-	-
Heptachlor epoxide	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-
Hexachlorobenzene	µg/g	*0.002*	**0.01**	0.52	-	-	-	-	-
Hexachlorobutadiene	µg/g	*0.002*	**0.01**	0.012	-	-	-	-	-
Hexachlorocyclohexane (g-BHC, Lindane)	µg/g	*0.002*	**0.01**	0.056	-	-	-	-	-
Hexachloroethane	µg/g	*0.002*	**0.01**	0.089	-	-	-	-	-
Methoxychlor	µg/g	*0.005*	**0.05**	0.13	-	-	-	-	-
VOCs									
Acetone	µg/g	*0.49*	**0.5**	16	<0.49	<0.49	**1.2**	<0.49	-
Bromomethane	µg/g	*0.04*	**0.05**	0.05	<0.040	<0.040	<0.040	<0.040	-
Bromoform	µg/g	*0.04*	**0.05**	0.27	<0.040	<0.040	<0.040	<0.040	-
Bromodichloromethane	µg/g	*0.04*	**0.05**	1.5	<0.040	<0.040	<0.040	<0.040	-
Carbon tetrachloride	µg/g	*0.04*	**0.05**	0.05	<0.040	<0.040	<0.040	<0.040	-
Chlorobenzene	µg/g	*0.04*	**0.05**	2.4	<0.040	<0.040	<0.040	<0.040	-
Chloroform	µg/g	*0.04*	**0.05**	0.05	<0.040	<0.040	<0.040	<0.040	-
Dibromoethane,1,2-	µg/g	*0.04*	**0.05**	0.05	<0.040	<0.040	<0.040	<0.040	-
Dibromochloromethane	µg/g	*0.04*	**0.05**	2.3	<0.040	<0.040	<0.040	<0.040	-
Dichlorobenzene, 1,2-	µg/g	*0.04*	**0.05**	1.2	<0.040	<0.040	<0.040	<0.040	-
Dichlorobenzene, 1,3-	µg/g	*0.04*	**0.05**	4.8	<0.040	<0.040	<0.040	<0.040	-
Dichlorobenzene, 1,4-	µg/g	*0.04*	**0.05**	0.083	<0.040	<0.040	<0.040	<0.040	-
Dichlorodifluoromethane	µg/g	*0.04*	**0.05**	16	<0.040	<0.040	<0.040	<0.040	-
Dichloroethane, 1,1-	µg/g	*0.04*	**0.05**	0.47	<0.040	<0.040	<0.040	<0.040	-
Dichloroethane, 1,2-	µg/g	*0.049*	**0.05**	0.05	<0.049	<0.049	<0.049	<0.049	-
Dichloroethylene, 1,1-	µg/g	*0.04*	**0.05**	0.05	<0.040	<0.040	<0.040	<0.040	-
Dichloroethylene, 1,2-trans-	µg/g	*0.04*	**0.05**	0.084	<0.040	<0.040	<0.040	<0.040	-
Dichloroethylene, 1,2-cis-	µg/g	*0.04*	**0.05**	1.9	<0.040	<0.040	<0.040	<0.040	-
Dichloromethane	µg/g	*0.049*	**0.05**	0.1	<0.049	<0.049	<0.049	<0.049	-
Dichloropropane, 1,2-	µg/g	*0.04*	**0.05**	0.05	<0.040	<0.040	<0.040	<0.040	-
Dichloropropene, 1,3- cis	µg/g	*0.03*			<0.030	<0.030	<0.030	<0.030	-
Dichloropropene, 1,3- trans	µg/g	*0.04*			<0.040	<0.040	<0.040	<0.040	-
Dichloropropene, 1,3- cis & trans	µg/g	*0.05*	**0.05**[#8]	0.05[#8]	<0.050	<0.050	<0.050	<0.050	-
Hexane	µg/g	*0.04*	**0.05**	2.8	<0.040	<0.040	<0.040	<0.040	-
Methyl Ethyl Ketone	µg/g	*0.4*	**0.5**	16	<0.40	<0.40	<0.40	<0.40	-
Methyl Iso-Butyl Ketone	µg/g	*0.4*	**0.5**	1.7	<0.40	<0.40	<0.40	<0.40	-
MTBE	µg/g	*0.04*	**0.05**	0.75	<0.040	<0.040	<0.040	<0.040	-
Styrene	µg/g	*0.04*	**0.05**	0.7	<0.040	<0.040	<0.040	<0.040	-
Tetrachloroethylene	µg/g	*0.04*	**0.05**	0.28	<0.040	<0.040	<0.040	<0.040	-
Tetrachloroethane, 1,1,1,2-	µg/g	*0.04*	**0.05**	0.058	<0.040	<0.040	<0.040	<0.040	-
Tetrachloroethane, 1,1,2,2-	µg/g	*0.04*	**0.05**	0.05	<0.040	<0.040	<0.040	<0.040	-
Trichloroethane, 1,1,1-	µg/g	*0.04*	**0.05**	0.38	<0.040	<0.040	<0.040	<0.040	-
Trichloroethane, 1,1,2-	µg/g	*0.04*	**0.05**	0.05	<0.040	<0.040	<0.040	<0.040	-
Trichloroethylene	µg/g	*0.01*	**0.05**	0.061	<0.010	<0.010	<0.010	<0.010	-
Trichlorofluoromethane	µg/g	*0.04*	**0.25**	4	<0.040	<0.040	<0.040	<0.040	-
Vinyl chloride	µg/g	*0.019*	**0.02**	0.02	<0.019	<0.019	<0.019	<0.019	-
Metals									
Antimony	µg/g	*0.2*	**1.3**	7.5	*0.48*	<0.20	*0.43*	<0.20	-
Arsenic	µg/g	*1*	**18**	18	*6.2*	*4.5*	*5.9*	*4.8*	-
Barium	µg/g	*0.5*	**220**	390	*150*	*68*	*150*	*110*	-
Beryllium	µg/g	*0.2*	**2.5**	4	*1.3*	*0.64*	*1.3*	*0.75*	-
Boron	µg/g	*5*	**36**	120[#10]	*22*	*16*	*20*	*13*	-
Cadmium	µg/g	*0.1*	**1.2**	1.2	*0.32*	<0.10	*0.2*	<0.10	-
Chromium (III+VI)	µg/g	*1*	**70**	160	*31*	*18*	*30*	*23*	-
Cobalt	µg/g	*0.1*	**21**	22	*14*	*11*	*14*	*11*	-
Copper	µg/g	*0.5*	**92**	140	*18*	*25*	*19*	*28*	-
Lead	µg/g	*1*	**120**	120	*23*	*9*	*19*	*11*	-
Molybdenum	µg/g	*0.5*	**2**	6.9	*1.1*	*0.56*	*1.1*	*0.51*	-
Nickel	µg/g	*0.5*	**82**	100	*33*	*22*	*32*	*25*	-
Selenium	µg/g	*0.5*	**1.5**	2.4	<0.50	<0.50	<0.50	<0.50	-
Silver	µg/g	*0.2*	**0.5**	20	<0.20	<0.20	<0.20	<0.20	-
Thallium	µg/g	*0.05*	**1**	1	*0.18*	*0.1*	*0.17*	*0.12*	-
Uranium	µg/g	*0.05*	**2.5**	23	*2.2*	*0.58*	*2.2*	*0.81*	-
Vanadium	µg/g	*5*	**86**	86	*42*	*27*	*41*	*30*	-
Zinc	µg/g	*5*	**290**	340	*100*	*50*	*95*	*58*	-
ORPs									
Electrical Conductivity (Lab)	µS/cm	*2*	**570**	700	-	-	-	-	-
Mercury	µg/g	*0.05*	**0.27**	0.27	-	-	-	-	-
pH (Lab)	-		**5-9**	5-9	-	-	-	-	-
Sodium Adsorption Ratio	-		**2.4**	5	-	-	-	-	-
Other									
Moisture	%	*1*			*23*	*19*	*21*	*13*	*13*

Comments
#1 Standard is applicable to total xylenes; m & p-xylenes and o-xylenes should be summed for comparison.
#2 Standard is applicable to PHC in the F1 range minus BTEX.
#3 Standard is applicable to PHC F2 minus naphthalene. If naphthalene is not analyzed, the standard is applied to F2.
#4 Standard is applicable to PHC F3 minus PAHs (other than naphthalene). If PAHs have not been measured, the standard is applied to F3.
#5 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(k)fluoranthene.
#6 Standard is applicable to Methylnaphthalene, 1- and Methylnaphthalene, 2-. If both are detected, the sum of the two must not exceed the standard.
#7 Standard is applicable to total PCBs, Individual aroclors should be added for comparison.
#8 Standard is applicable to 1,3-Dichloropropene. Individual isomers (cis + trans) should be added for comparison.
#9 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(j)fluoranthene.
#10 Total Boron standard is for sub-surface soil (>1.5 m).

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Table 4 - Soil Quality

				Location Code	BH109	BH110	BH110	BH111	BH111
				Field ID	BH109_0-0.61	BH110_1.52-2.13	QA/QC#2	BH111_0.76-1.37	BH111_2.29-2.90
				Depth	0 - 0.61	1.52 - 2.13	1.52 - 2.13	0.76 - 1.37	2.29 - 2.9
				Date	13 Dec 2022	15 Dec 2022	15 Dec 2022	13 Dec 2022	13 Dec 2022
	Unit	*EQL*	**Table 1 - RPIICC**	Table 6 - RPI, coarse soil					
BTEX									
Benzene	µg/g	*0.006*	**0.02**	0.21	<0.020	<0.0060	<0.0060	-	<0.0060
Toluene	µg/g	*0.02*	**0.2**	2.3	<0.020	**0.21**	*0.038*	-	*0.07*
Ethylbenzene	µg/g	*0.01*	**0.05**	1.1	<0.020	<0.010	<0.010	-	<0.010
Xylene Total	µg/g	*0.02*	**0.05**[#1]	3.1[#1]	<0.040	<0.020	<0.020	-	<0.020
PHCs									
F1	µg/g	*10*	**25**[#2]	55[#2]	<10	<10	<10	-	<10
F1 minus BTEX	µg/g	*10*	**25**[#2]	55[#2]	<10	<10	<10	-	<10
F2	µg/g	*10*	**10**[#3]	98[#3]	<10	<10	<10	-	<10
F3	µg/g	*50*	**240**[#4]	300[#4]	<50	<50	<50	-	*56*
F4	µg/g	*50*	**120**	2,800	<50	<50	<50	-	<50
PAH									
Acenaphthene	µg/g	*0.005*	**0.072**	7.9	<0.0050	<0.0050	<0.0050	-	<0.0050
Acenaphthylene	µg/g	*0.005*	**0.093**	0.15	<0.0050	<0.0050	<0.0050	-	<0.0050
Anthracene	µg/g	*0.005*	**0.16**	0.67	<0.0050	<0.0050	<0.0050	-	<0.0050
Benz(a)anthracene	µg/g	*0.005*	**0.36**	0.5	<0.0050	*0.016*	*0.02*	-	<0.0050
Benzo(a)pyrene	µg/g	*0.005*	**0.3**	0.3	<0.0050	*0.016*	*0.02*	-	<0.0050
Benzo(b+j)fluoranthene	ug/g	*0.005*	**0.47**[#5]	0.78[#9]	*0.0071*	*0.02*	*0.025*	-	<0.0050
Benzo(g,h,i)perylene	µg/g	*0.005*	**0.68**	6.6	<0.0050	*0.011*	*0.013*	-	<0.0050
Benzo(k)fluoranthene	µg/g	*0.005*	**0.48**	0.78	<0.0050	*0.0071*	*0.0088*	-	<0.0050
Chrysene	µg/g	*0.005*	**2.8**	7	<0.0050	*0.014*	*0.017*	-	*0.0062*
Dibenz(a,h)anthracene	µg/g	*0.005*	**0.1**	0.1	<0.0050	<0.0050	<0.0050	-	<0.0050
Fluoranthene	µg/g	*0.005*	**0.56**	0.69	*0.0073*	*0.029*	*0.036*	-	<0.0050
Fluorene	µg/g	*0.005*	**0.12**	62	<0.0050	<0.0050	<0.0050	-	<0.0050
Indeno(1,2,3-c,d)pyrene	µg/g	*0.005*	**0.23**	0.38	<0.0050	*0.011*	*0.013*	-	<0.0050
Methylnaphthalene -1	µg/g	*0.005*	**0.59**[#6]	0.99[#6]	<0.0050	<0.0050	<0.0050	-	<0.0050
Methylnaphthalene -2	µg/g	*0.005*	**0.59**[#6]	0.99[#6]	<0.0050	<0.0050	<0.0050	-	<0.0050
Methylnaphthalene 1 & 2	µg/g	*0.0071*	**0.59**[#6]	0.99[#6]	<0.0071	<0.0071	<0.0071	-	<0.0071
Naphthalene	µg/g	*0.005*	**0.09**	0.6	<0.0050	<0.0050	<0.0050	-	<0.0050
Phenanthrene	µg/g	*0.005*	**0.69**	6.2	<0.0050	*0.006*	*0.0073*	-	<0.0050
Pyrene	µg/g	*0.005*	**1**	78	*0.0058*	*0.025*	*0.031*	-	<0.0050
PCBs									
PCBs total	µg/g	*0.015*	**0.3**[#7]	0.35[#7]	-	<0.015	<0.015	-	-
Arochlor 1242	µg/g	*0.015*			-	<0.015	<0.015	-	-
Arochlor 1248	µg/g	*0.015*			-	<0.015	<0.015	-	-
Arochlor 1254	µg/g	*0.015*			-	<0.015	<0.015	-	-
Arochlor 1260	µg/g	*0.015*			-	<0.015	<0.015	-	-
Organochlorine Pesticides									
DDD (total)	µg/g	*0.002*	**0.05**	3.3	-	<0.0020	<0.0020	-	-
DDE (total)	µg/g	*0.002*	**0.05**	0.26	-	<0.0020	<0.0020	-	-
DDT_	µg/g	*0.002*	**1.4**	1.4	-	<0.0020	<0.0020	-	-
Aldrin	µg/g	*0.002*	**0.05**	0.05	-	<0.0020	<0.0020	-	-
Chlordane (Total)	µg/g	*0.002*	**0.05**	0.05	-	<0.0020	<0.0020	-	-
Chlordane (Alpha)	µg/g	*0.002*			-	<0.0020	<0.0020	-	-
Chlordane (Gamma)_	µg/g	*0.002*			-	<0.0020	<0.0020	-	-
Dieldrin	µg/g	*0.002*	**0.05**	0.05	-	<0.0020	<0.0020	-	-
Endosulfan	µg/g	*0.002*	**0.04**	0.04	-	<0.0020	<0.0020	-	-
Endosulfan I	µg/g	*0.002*			-	<0.0020	<0.0020	-	-
Endosulfan II	µg/g	*0.002*			-	<0.0020	<0.0020	-	-
Endrin	µg/g	*0.002*	**0.04**	0.04	-	<0.0020	<0.0020	-	-
Heptachlor	µg/g	*0.002*	**0.05**	0.15	-	<0.0020	<0.0020	-	-
Heptachlor epoxide	µg/g	*0.002*	**0.05**	0.05	-	<0.0020	<0.0020	-	-
Hexachlorobenzene	µg/g	*0.002*	**0.01**	0.52	-	<0.0020	<0.0020	-	-
Hexachlorobutadiene	µg/g	*0.002*	**0.01**	0.012	-	<0.0020	<0.0020	-	-
Hexachlorocyclohexane (g-BHC, Lindane)	µg/g	*0.002*	**0.01**	0.056	-	<0.0020	<0.0020	-	-
Hexachloroethane	µg/g	*0.002*	**0.01**	0.089	-	<0.0020	<0.0020	-	-
Methoxychlor	µg/g	*0.005*	**0.05**	0.13	-	<0.0050	<0.0050	-	-
VOCs									
Acetone	µg/g	*0.49*	**0.5**	16	-	**1.1**	<0.49	-	**13**
Bromomethane	µg/g	*0.04*	**0.05**	0.05	-	<0.040	<0.040	-	<0.040
Bromoform	µg/g	*0.04*	**0.05**	0.27	-	<0.040	<0.040	-	<0.040
Bromodichloromethane	µg/g	*0.04*	**0.05**	1.5	-	<0.040	<0.040	-	<0.040
Carbon tetrachloride	µg/g	*0.04*	**0.05**	0.05	-	<0.040	<0.040	-	<0.040
Chlorobenzene	µg/g	*0.04*	**0.05**	2.4	-	<0.040	<0.040	-	<0.040
Chloroform	µg/g	*0.04*	**0.05**	0.05	-	<0.040	<0.040	-	<0.040
Dibromoethane,1,2-	µg/g	*0.04*	**0.05**	0.05	-	<0.040	<0.040	-	<0.040
Dibromochloromethane	µg/g	*0.04*	**0.05**	2.3	-	<0.040	<0.040	-	<0.040
Dichlorobenzene, 1,2-	µg/g	*0.04*	**0.05**	1.2	-	<0.040	<0.040	-	<0.040
Dichlorobenzene, 1,3-	µg/g	*0.04*	**0.05**	4.8	-	<0.040	<0.040	-	<0.040
Dichlorobenzene, 1,4-	µg/g	*0.04*	**0.05**	0.083	-	<0.040	<0.040	-	<0.040
Dichlorodifluoromethane	µg/g	*0.04*	**0.05**	16	-	<0.040	<0.040	-	<0.040
Dichloroethane, 1,1-	µg/g	*0.04*	**0.05**	0.47	-	<0.040	<0.040	-	<0.040
Dichloroethane, 1,2-	µg/g	*0.049*	**0.05**	0.05	-	<0.049	<0.049	-	<0.049
Dichloroethylene, 1,1-	µg/g	*0.04*	**0.05**	0.05	-	<0.040	<0.040	-	<0.040
Dichloroethylene, 1,2-trans-	µg/g	*0.04*	**0.05**	0.084	-	<0.040	<0.040	-	<0.040
Dichloroethylene, 1,2-cis-	µg/g	*0.04*	**0.05**	1.9	-	<0.040	<0.040	-	<0.040
Dichloromethane	µg/g	*0.049*	**0.05**	0.1	-	<0.049	<0.049	-	<0.049
Dichloropropane, 1,2-	µg/g	*0.04*	**0.05**	0.05	-	<0.040	<0.040	-	<0.040
Dichloropropene, 1,3- cis	µg/g	*0.03*			-	<0.030	<0.030	-	<0.030
Dichloropropene, 1,3- trans	µg/g	*0.04*			-	<0.040	<0.040	-	<0.040
Dichloropropene, 1,3- cis & trans	µg/g	*0.05*	**0.05**[#8]	0.05[#8]	-	<0.050	<0.050	-	<0.050
Hexane	µg/g	*0.04*	**0.05**	2.8	-	<0.040	<0.040	-	<0.040
Methyl Ethyl Ketone	µg/g	*0.4*	**0.5**	16	-	<0.40	<0.40	-	<0.40
Methyl Iso-Butyl Ketone	µg/g	*0.4*	**0.5**	1.7	-	<0.40	<0.40	-	<0.40
MTBE	µg/g	*0.04*	**0.05**	0.75	-	<0.040	<0.040	-	<0.040
Styrene	µg/g	*0.04*	**0.05**	0.7	-	<0.040	<0.040	-	<0.040
Tetrachloroethylene	µg/g	*0.04*	**0.05**	0.28	-	<0.040	<0.040	-	<0.040
Tetrachloroethane, 1,1,1,2-	µg/g	*0.04*	**0.05**	0.058	-	<0.040	<0.040	-	<0.040
Tetrachloroethane, 1,1,2,2-	µg/g	*0.04*	**0.05**	0.05	-	<0.040	<0.040	-	<0.040
Trichloroethane, 1,1,1-	µg/g	*0.04*	**0.05**	0.38	-	<0.040	<0.040	-	<0.040
Trichloroethane, 1,1,2-	µg/g	*0.04*	**0.05**	0.05	-	<0.040	<0.040	-	<0.040
Trichloroethylene	µg/g	*0.01*	**0.05**	0.061	-	<0.010	<0.010	-	<0.010
Trichlorofluoromethane	µg/g	*0.04*	**0.25**	4	-	<0.040	<0.040	-	<0.040
Vinyl chloride	µg/g	*0.019*	**0.02**	0.02	-	<0.019	<0.019	-	<0.019
Metals									
Antimony	µg/g	*0.2*	**1.3**	7.5	*0.44*	<0.20	-	*0.48*	-
Arsenic	µg/g	*1*	**18**	18	*5.7*	*4.7*	-	*4.7*	-
Barium	µg/g	*0.5*	**220**	390	*150*	*85*	-	*120*	-
Beryllium	µg/g	*0.2*	**2.5**	4	*1.2*	*0.34*	-	*0.92*	-
Boron	µg/g	*5*	**36**	120[#10]	*22*	*7*	-	*19*	-
Cadmium	µg/g	*0.1*	**1.2**	1.2	*0.28*	*0.12*	-	*0.32*	-
Chromium (III+VI)	µg/g	*1*	**70**	160	*29*	*12*	-	*25*	-
Cobalt	µg/g	*0.1*	**21**	22	*14*	*6.2*	-	*13*	-
Copper	µg/g	*0.5*	**92**	140	*22*	*47*	-	*21*	-
Lead	µg/g	*1*	**120**	120	*18*	*8.2*	-	*30*	-
Molybdenum	µg/g	*0.5*	**2**	6.9	*1*	*0.98*	-	*0.77*	-
Nickel	µg/g	*0.5*	**82**	100	*32*	*12*	-	*29*	-
Selenium	µg/g	*0.5*	**1.5**	2.4	<0.50	<0.50	-	<0.50	-
Silver	µg/g	*0.2*	**0.5**	20	<0.20	<0.20	-	<0.20	-
Thallium	µg/g	*0.05*	**1**	1	*0.18*	*0.07*	-	*0.13*	-
Uranium	µg/g	*0.05*	**2.5**	23	*2.4*	*0.64*	-	*1.3*	-
Vanadium	µg/g	*5*	**86**	86	*40*	*19*	-	*33*	-
Zinc	µg/g	*5*	**290**	340	*88*	*34*	-	*96*	-
ORPs									
Electrical Conductivity (Lab)	µS/cm	*2*	**570**	700	*170*	*220*	-	-	-
Mercury	µg/g	*0.05*	**0.27**	0.27	-	<0.050	-	-	-
pH (Lab)	-		**5-9**	5-9	6.05	7.78	-	-	-
Sodium Adsorption Ratio	-		**2.4**	5	0.27	0.4	-	-	-
Other									
Moisture	%	*1*			*24*	*6.1*	*5.6*	-	*17*

Comments
#1 Standard is applicable to total xylenes; m & p-xylenes and o-xylenes should be summed for comparison.
#2 Standard is applicable to PHC in the F1 range minus BTEX.
#3 Standard is applicable to PHC F2 minus naphthalene. If naphthalene is not analyzed, the standard is applied to F2.
#4 Standard is applicable to PHC F3 minus PAHs (other than naphthalene). If PAHs have not been measured, the standard is applied to F3.
#5 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(k)fluoranthene.
#6 Standard is applicable to Methylnaphthalene, 1- and Methylnaphthalene, 2-. If both are detected, the sum of the two must not exceed the standard.
#7 Standard is applicable to total PCBs, Individual aroclors should be added for comparison.
#8 Standard is applicable to 1,3-Dichloropropene. Individual isomers (cis + trans) should be added for comparison.
#9 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(j)fluoranthene.
#10 Total Boron standard is for sub-surface soil (>1.5 m).

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Table 4 - Soil Quality

				Location Code	BH111	BH112	BH112	BH113	BH113
				Field ID	BH111_5.33-5.94	BH112_0-0.61	BH112_0.76-1.37	BH113_0-0.61	BH113_0.76-1.37
				Depth	5.33 - 5.94	0 - 0.61	0.76 - 1.37	0 - 0.61	0.76 - 1.37
				Date	14 Dec 2022	13 Dec 2022	13 Dec 2022	13 Dec 2022	13 Dec 2022
	Unit	*EQL*	**Table 1 - RPIICC**	Table 6 - RPI, coarse soil					
BTEX									
Benzene	µg/g	*0.006*	**0.02**	0.21	<0.0060	<0.020	-	<0.020	-
Toluene	µg/g	*0.02*	**0.2**	2.3	<0.020	<0.020	-	<0.020	-
Ethylbenzene	µg/g	*0.01*	**0.05**	1.1	<0.010	<0.020	-	<0.020	-
Xylene Total	µg/g	*0.02*	**0.05**[#1]	3.1[#1]	<0.020	<0.040	-	<0.040	-
PHCs									
F1	µg/g	*10*	**25**[#2]	55[#2]	-	<10	-	<10	-
F1 minus BTEX	µg/g	*10*	**25**[#2]	55[#2]	-	<10	-	<10	-
F2	µg/g	*10*	**10**[#3]	98[#3]	-	<10	-	<10	-
F3	µg/g	*50*	**240**[#4]	300[#4]	-	<50	-	<50	-
F4	µg/g	*50*	**120**	2,800	-	<50	-	<50	-
PAH									
Acenaphthene	µg/g	*0.005*	**0.072**	7.9	-	<0.0050	-	<0.0050	-
Acenaphthylene	µg/g	*0.005*	**0.093**	0.15	-	<0.0050	-	<0.0050	-
Anthracene	µg/g	*0.005*	**0.16**	0.67	-	<0.0050	-	<0.0050	-
Benz(a)anthracene	µg/g	*0.005*	**0.36**	0.5	-	<0.0050	-	<0.0050	-
Benzo(a)pyrene	µg/g	*0.005*	**0.3**	0.3	-	<0.0050	-	<0.0050	-
Benzo(b+j)fluoranthene	ug/g	*0.005*	**0.47**[#5]	0.78[#9]	-	<0.0050	-	*0.0051*	-
Benzo(g,h,i)perylene	µg/g	*0.005*	**0.68**	6.6	-	<0.0050	-	<0.0050	-
Benzo(k)fluoranthene	µg/g	*0.005*	**0.48**	0.78	-	<0.0050	-	<0.0050	-
Chrysene	µg/g	*0.005*	**2.8**	7	-	<0.0050	-	<0.0050	-
Dibenz(a,h)anthracene	µg/g	*0.005*	**0.1**	0.1	-	<0.0050	-	<0.0050	-
Fluoranthene	µg/g	*0.005*	**0.56**	0.69	-	<0.0050	-	*0.0066*	-
Fluorene	µg/g	*0.005*	**0.12**	62	-	<0.0050	-	<0.0050	-
Indeno(1,2,3-c,d)pyrene	µg/g	*0.005*	**0.23**	0.38	-	<0.0050	-	<0.0050	-
Methylnaphthalene -1	µg/g	*0.005*	**0.59**[#6]	0.99[#6]	-	<0.0050	-	<0.0050	-
Methylnaphthalene -2	µg/g	*0.005*	**0.59**[#6]	0.99[#6]	-	<0.0050	-	<0.0050	-
Methylnaphthalene 1 & 2	µg/g	*0.0071*	**0.59**[#6]	0.99[#6]	-	<0.0071	-	<0.0071	-
Naphthalene	µg/g	*0.005*	**0.09**	0.6	-	<0.0050	-	<0.0050	-
Phenanthrene	µg/g	*0.005*	**0.69**	6.2	-	<0.0050	-	<0.0050	-
Pyrene	µg/g	*0.005*	**1**	78	-	<0.0050	-	*0.0053*	-
PCBs									
PCBs total	µg/g	*0.015*	**0.3**[#7]	0.35[#7]	-	-	-	-	-
Arochlor 1242	µg/g	*0.015*			-	-	-	-	-
Arochlor 1248	µg/g	*0.015*			-	-	-	-	-
Arochlor 1254	µg/g	*0.015*			-	-	-	-	-
Arochlor 1260	µg/g	*0.015*			-	-	-	-	-
Organochlorine Pesticides									
DDD (total)	µg/g	*0.002*	**0.05**	3.3	-	-	-	-	-
DDE (total)	µg/g	*0.002*	**0.05**	0.26	-	-	-	-	-
DDT_	µg/g	*0.002*	**1.4**	1.4	-	-	-	-	-
Aldrin	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-
Chlordane (Total)	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-
Chlordane (Alpha)	µg/g	*0.002*			-	-	-	-	-
Chlordane (Gamma)_	µg/g	*0.002*			-	-	-	-	-
Dieldrin	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-
Endosulfan	µg/g	*0.002*	**0.04**	0.04	-	-	-	-	-
Endosulfan I	µg/g	*0.002*			-	-	-	-	-
Endosulfan II	µg/g	*0.002*			-	-	-	-	-
Endrin	µg/g	*0.002*	**0.04**	0.04	-	-	-	-	-
Heptachlor	µg/g	*0.002*	**0.05**	0.15	-	-	-	-	-
Heptachlor epoxide	µg/g	*0.002*	**0.05**	0.05	-	-	-	-	-
Hexachlorobenzene	µg/g	*0.002*	**0.01**	0.52	-	-	-	-	-
Hexachlorobutadiene	µg/g	*0.002*	**0.01**	0.012	-	-	-	-	-
Hexachlorocyclohexane (g-BHC, Lindane)	µg/g	*0.002*	**0.01**	0.056	-	-	-	-	-
Hexachloroethane	µg/g	*0.002*	**0.01**	0.089	-	-	-	-	-
Methoxychlor	µg/g	*0.005*	**0.05**	0.13	-	-	-	-	-
VOCs									
Acetone	µg/g	*0.49*	**0.5**	16	<0.49	-	-	-	-
Bromomethane	µg/g	*0.04*	**0.05**	0.05	<0.040	-	-	-	-
Bromoform	µg/g	*0.04*	**0.05**	0.27	<0.040	-	-	-	-
Bromodichloromethane	µg/g	*0.04*	**0.05**	1.5	<0.040	-	-	-	-
Carbon tetrachloride	µg/g	*0.04*	**0.05**	0.05	<0.040	-	-	-	-
Chlorobenzene	µg/g	*0.04*	**0.05**	2.4	<0.040	-	-	-	-
Chloroform	µg/g	*0.04*	**0.05**	0.05	<0.040	-	-	-	-
Dibromoethane,1,2-	µg/g	*0.04*	**0.05**	0.05	<0.040	-	-	-	-
Dibromochloromethane	µg/g	*0.04*	**0.05**	2.3	<0.040	-	-	-	-
Dichlorobenzene, 1,2-	µg/g	*0.04*	**0.05**	1.2	<0.040	-	-	-	-
Dichlorobenzene, 1,3-	µg/g	*0.04*	**0.05**	4.8	<0.040	-	-	-	-
Dichlorobenzene, 1,4-	µg/g	*0.04*	**0.05**	0.083	<0.040	-	-	-	-
Dichlorodifluoromethane	µg/g	*0.04*	**0.05**	16	<0.040	-	-	-	-
Dichloroethane, 1,1-	µg/g	*0.04*	**0.05**	0.47	<0.040	-	-	-	-
Dichloroethane, 1,2-	µg/g	*0.049*	**0.05**	0.05	<0.049	-	-	-	-
Dichloroethylene, 1,1-	µg/g	*0.04*	**0.05**	0.05	<0.040	-	-	-	-
Dichloroethylene, 1,2-trans-	µg/g	*0.04*	**0.05**	0.084	<0.040	-	-	-	-
Dichloroethylene, 1,2-cis-	µg/g	*0.04*	**0.05**	1.9	<0.040	-	-	-	-
Dichloromethane	µg/g	*0.049*	**0.05**	0.1	<0.049	-	-	-	-
Dichloropropane, 1,2-	µg/g	*0.04*	**0.05**	0.05	<0.040	-	-	-	-
Dichloropropene, 1,3- cis	µg/g	*0.03*			<0.030	-	-	-	-
Dichloropropene, 1,3- trans	µg/g	*0.04*			<0.040	-	-	-	-
Dichloropropene, 1,3- cis & trans	µg/g	*0.05*	**0.05**[#8]	0.05[#8]	<0.050	-	-	-	-
Hexane	µg/g	*0.04*	**0.05**	2.8	<0.040	-	-	-	-
Methyl Ethyl Ketone	µg/g	*0.4*	**0.5**	16	<0.40	-	-	-	-
Methyl Iso-Butyl Ketone	µg/g	*0.4*	**0.5**	1.7	<0.40	-	-	-	-
MTBE	µg/g	*0.04*	**0.05**	0.75	<0.040	-	-	-	-
Styrene	µg/g	*0.04*	**0.05**	0.7	<0.040	-	-	-	-
Tetrachloroethylene	µg/g	*0.04*	**0.05**	0.28	<0.040	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/g	*0.04*	**0.05**	0.058	<0.040	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/g	*0.04*	**0.05**	0.05	<0.040	-	-	-	-
Trichloroethane, 1,1,1-	µg/g	*0.04*	**0.05**	0.38	<0.040	-	-	-	-
Trichloroethane, 1,1,2-	µg/g	*0.04*	**0.05**	0.05	<0.040	-	-	-	-
Trichloroethylene	µg/g	*0.01*	**0.05**	0.061	<0.010	-	-	-	-
Trichlorofluoromethane	µg/g	*0.04*	**0.25**	4	<0.040	-	-	-	-
Vinyl chloride	µg/g	*0.019*	**0.02**	0.02	<0.019	-	-	-	-
Metals									
Antimony	µg/g	*0.2*	**1.3**	7.5	-	*0.39*	-	0.2	-
Arsenic	µg/g	*1*	**18**	18	-	*4.1*	-	*2.7*	-
Barium	µg/g	*0.5*	**220**	390	-	*170*	-	*48*	-
Beryllium	µg/g	*0.2*	**2.5**	4	-	*1*	-	*0.43*	-
Boron	µg/g	*5*	**36**	120[#10]	-	*25*	-	*9.5*	-
Cadmium	µg/g	*0.1*	**1.2**	1.2	-	*0.11*	-	<0.10	-
Chromium (III+VI)	µg/g	*1*	**70**	160	-	*28*	-	*12*	-
Cobalt	µg/g	*0.1*	**21**	22	-	*15*	-	*6.3*	-
Copper	µg/g	*0.5*	**92**	140	-	*12*	-	*17*	-
Lead	µg/g	*1*	**120**	120	-	*11*	-	*7.1*	-
Molybdenum	µg/g	*0.5*	**2**	6.9	-	*0.77*	-	<0.50	-
Nickel	µg/g	*0.5*	**82**	100	-	*34*	-	*14*	-
Selenium	µg/g	*0.5*	**1.5**	2.4	-	<0.50	-	<0.50	-
Silver	µg/g	*0.2*	**0.5**	20	-	<0.20	-	<0.20	-
Thallium	µg/g	*0.05*	**1**	1	-	*0.13*	-	*0.076*	-
Uranium	µg/g	*0.05*	**2.5**	23	-	*1.4*	-	*0.63*	-
Vanadium	µg/g	*5*	**86**	86	-	*34*	-	*20*	-
Zinc	µg/g	*5*	**290**	340	-	*73*	-	*36*	-
ORPs									
Electrical Conductivity (Lab)	µS/cm	*2*	**570**	700	-	**880**	410	**710**	*440*
Mercury	µg/g	*0.05*	**0.27**	0.27	-	-	-	-	-
pH (Lab)	-		**5-9**	5-9	-	7.71	-	7.73	-
Sodium Adsorption Ratio	-		**2.4**	5	-	0.76	0.61	0.57	0.73
Other									
Moisture	%	*1*			*14*	*19*	-	*21*	-

Comments
#1 Standard is applicable to total xylenes; m & p-xylenes and o-xylenes should be summed for comparison.
#2 Standard is applicable to PHC in the F1 range minus BTEX.
#3 Standard is applicable to PHC F2 minus naphthalene. If naphthalene is not analyzed, the standard is applied to F2.
#4 Standard is applicable to PHC F3 minus PAHs (other than naphthalene). If PAHs have not been measured, the standard is applied to F3.
#5 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(k)fluoranthene.
#6 Standard is applicable to Methylnaphthalene, 1- and Methylnaphthalene, 2-. If both are detected, the sum of the two must not exceed the standard.
#7 Standard is applicable to total PCBs, Individual aroclors should be added for comparison.
#8 Standard is applicable to 1,3-Dichloropropene. Individual isomers (cis + trans) should be added for comparison.
#9 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(j)fluoranthene.
#10 Total Boron standard is for sub-surface soil (>1.5 m).

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Table 5 - Groundwater Quality

				Location Code	BH101	BH101	BH101	BH102	BH102
				Field ID	BH101	BH101	QAQC 101	BH102	QAQAC 102
				Depth					
				Date	27 Jan 2023	27 Feb 2023	27 Jan 2023	27 Jan 2023	27 Jan 2023
	Unit	*EQL*	**Table 1 - All Types of Property Use**	***Table 6 - All Types of Property Use***					
BTEX									
Benzene	µg/L	*0.17*	**0.5**	***0.5***	<0.20	-	-	<0.20	<0.20
Toluene	µg/L	*0.2*	**0.8**	***24***	<0.20	-	-	<0.20	<0.20
Ethylbenzene	µg/L	*0.2*	**0.5**	***2.4***	<0.20	-	-	<0.20	<0.20
Xylene (m & p)	µg/L	*0.2*			<0.40	-	-	<0.40	<0.40
Xylene (o)	µg/L	*0.2*			<0.20	-	-	<0.20	<0.20
Xylene Total	µg/L	*0.2*	**72**[#1]	***72***[#1]	<0.40	-	-	<0.40	<0.40
PHCs									
F1	µg/L	*25*	**420**[#2]	***420***[#2]	<25	-	-	<25	<25
F1 minus BTEX	µg/L	*25*	**420**[#2]	***420***[#2]	<25	-	-	<25	<25
F2	µg/L	*100*	**150**[#3]	***150***[#3]	<100	-	-	<100	<100
F3	µg/L	*200*	**500**[#4]	***500***[#4]	<200	-	-	<200	<200
F4	µg/L	*200*	**500**	***500***	<200	-	-	<200	<200
VOCs									
Acetone	µg/L	*10*	**2,700**	***2,700***	-	-	-	-	-
Bromoform	µg/L	*1*	**5**	***5***	-	-	-	-	-
Bromomethane	µg/L	*0.5*	**0.89**	***0.89***	-	-	-	-	-
Bromodichloromethane	µg/L	*0.5*	**2**	***16***	-	-	-	-	-
Carbon tetrachloride	µg/L	*0.2*	**0.2**	***0.2***	-	-	-	-	-
Chlorobenzene	µg/L	*0.2*	**0.5**	***30***	-	-	-	-	-
Chloroform	µg/L	*0.2*	**2**	***2***	-	-	-	-	-
Dibromochloromethane	µg/L	*0.5*	**2**	***25***	-	-	-	-	-
Dibromoethane,1,2-	µg/L	*0.2*	**0.2**	***0.2***	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	*0.5*	**0.5**	***3***	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	*0.5*	**0.5**	***59***	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	*0.5*	**0.5**	***0.5***	-	-	-	-	-
Dichlorodifluoromethane	µg/L	*1*	**590**	***590***	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	*0.2*	**0.5**	***5***	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	*0.5*	**0.5**	***0.5***	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	*0.2*	**0.5**	***0.5***	-	-	-	-	-
Dichloroethene, 1,2-cis-	µg/L	*0.5*	**1.6**	***1.6***	-	-	-	-	-
Dichloroethene, 1,2-trans-	µg/L	*0.5*	**1.6**	***1.6***	-	-	-	-	-
Dichloromethane	µg/L	*2*	**5**	***26***	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	*0.2*	**0.5**	***0.58***	-	-	-	-	-
Dichloropropene, 1,3-	µg/L	*0.5*	**0.5**	***0.5***	-	-	-	-	-
Dichloropropene, 1,3- cis	µg/L	*0.3*			-	-	-	-	-
Dichloropropene, 1,3- trans	µg/L	*0.4*			-	-	-	-	-
Hexane	µg/L	*1*	**5**	***5***	-	-	-	-	-
Methyl Ethyl Ketone	µg/L	*10*	**400**	***1,800***	-	-	-	-	-
Methyl Iso-Butyl Ketone	µg/L	*5*	**640**	***640***	-	-	-	-	-
Methyl tert-butyl ether	µg/L	*0.5*	**15**	***15***	-	-	-	-	-
Styrene	µg/L	*0.5*	**0.5**	***5.4***	-	-	-	-	-
Tetrachloroethene	µg/L	*0.2*	**0.5**	***0.5***	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	*0.5*	**1.1**	***1.1***	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	*0.5*	**0.5**	***0.5***	-	-	-	-	-
Trichloroethene	µg/L	*0.2*	**0.5**	***0.5***	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/L	*0.2*	**0.5**	***23***	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	*0.5*	**0.5**	***0.5***	-	-	-	-	-
Trichlorofluoromethane	µg/L	*0.5*	**150**	***150***	-	-	-	-	-
Vinyl chloride	µg/L	*0.2*	**0.5**	***0.5***	-	-	-	-	-
PAH									
1 & 2 Methylnaphthalene	µg/L	*0.071*	**2**[#5]	***3.2***[#5]	<0.071	-	-	<0.071	-
1-Methylnaphthalene	µg/L	*0.05*	**2**[#5]	***3.2***[#5]	<0.050	-	-	<0.050	-
2-methylnaphthalene	µg/L	*0.05*	**2**[#5]	***3.2***[#5]	<0.050	-	-	<0.050	-
Acenaphthene	µg/L	*0.05*	**4.1**	***4.1***	<0.050	-	-	<0.050	-
Acenaphthylene	µg/L	*0.05*	**1**	***1***	<0.050	-	-	<0.050	-
Anthracene	µg/L	*0.05*	**0.1**	***1***	<0.050	-	-	<0.050	-
Benz(a)anthracene	µg/L	*0.05*	**0.2**	***1***	<0.050	-	-	<0.050	-
Benzo(a) pyrene	µg/L	*0.009*	**0.01**	***0.01***	<0.0090	-	-	<0.0090	-
Benzo(b+j)fluoranthene	µg/L	*0.05*	**0.1**[#6]	***0.1***[#6]	<0.050	-	-	<0.050	-
Benzo(g,h,i)perylene	µg/L	*0.05*	**0.2**	***0.2***	<0.050	-	-	<0.050	-
Benzo(e)pyrene	µg/L	*0.05*			<0.050	-	-	<0.050	-
Benzo(k)fluoranthene	µg/L	*0.05*	**0.1**	***0.1***	<0.050	-	-	<0.050	-
Chrysene	µg/L	*0.05*	**0.1**	***0.1***	<0.050	-	-	<0.050	-
Dibenz(a,h)anthracene	µg/L	*0.05*	**0.2**	***0.2***	<0.050	-	-	<0.050	-
Fluoranthene	µg/L	*0.05*	**0.4**	***0.41***	<0.050	-	-	<0.050	-
Fluorene	µg/L	*0.05*	**120**	***120***	<0.050	-	-	<0.050	-
Indeno(1,2,3-c,d)pyrene	µg/L	*0.05*	**0.2**	***0.2***	<0.050	-	-	<0.050	-
Naphthalene	µg/L	*0.05*	**7**	***7***	<0.050	-	-	<0.050	-
Phenanthrene	µg/L	*0.03*	**0.1**	***1***	<0.030	-	-	<0.030	-
Pyrene	µg/L	*0.05*	**0.2**	***4.1***	<0.050	-	-	<0.050	-
Perylene	µg/L	*0.05*			<0.050	-	-	<0.050	-
PCBs									
Arochlor 1242	µg/L	*0.05*			-	<0.05	<0.05	-	-
Arochlor 1248	µg/L	*0.05*			-	<0.05	<0.05	-	-
Arochlor 1254	µg/L	*0.05*			-	<0.05	<0.05	-	-
Arochlor 1260	µg/L	*0.05*			-	<0.05	<0.05	-	-
PCBs	µg/L	*0.05*	**0.2**[#7]	***0.2***[#7]	-	<0.05	<0.05	-	-
Metals									
Antimony (filtered)	µg/L	*0.5*	**1.5**	***6***	<0.50	-	-	<0.50	-
Arsenic (filtered)	µg/L	*1*	**13**	***25***	<1.0	-	-	<1.0	-
Barium (filtered)	µg/L	*2*	**610**	***1,000***	*89*	-	-	*52*	-
Beryllium (filtered)	µg/L	*0.4*	**0.5**	***4***	<0.40	-	-	<0.40	-
Boron (filtered)	µg/L	*10*	**1,700**	***5,000***	*160*	-	-	*190*	-
Cadmium (filtered)	µg/L	*0.09*	**0.5**	***2.1***	<0.090	-	-	<0.090	-
Chromium (III+VI) (filtered)	µg/L	*5*	**11**	***50***	<5.0	-	-	<5.0	-
Cobalt (filtered)	µg/L	*0.5*	**3.8**	***3.8***	<0.50	-	-	<0.50	-
Copper (filtered)	µg/L	*0.9*	**5**	***69***	**6.9**	-	-	**7.9**	-
Lead (filtered)	µg/L	*0.5*	**1.9**	***10***	<0.50	-	-	<0.50	-
Molybdenum (filtered)	µg/L	*0.5*	**23**	***70***	*18*	-	-	*2.9*	-
Nickel (filtered)	µg/L	*1*	**14**	***100***	*2.5*	-	-	*2.2*	-
Selenium (filtered)	µg/L	*2*	**5**	***10***	*2.8*	-	-	<2.0	-
Silver (filtered)	µg/L	*0.09*	**0.3**	***1.2***	<0.090	-	-	<0.090	-
Sodium (filtered)	µg/L	*100*	**490,000**	***490,000***	*110,000*	-	-	*44,000*	-
Thallium (filtered)	µg/L	*0.05*	**0.5**	***2***	<0.050	-	-	<0.050	-
Uranium (filtered)	µg/L	*0.1*	**8.9**	***20***	**13**	-	-	*5.6*	-
Vanadium (filtered)	µg/L	*0.5*	**3.9**	***6.2***	<0.50	-	-	<0.50	-
Zinc (filtered)	µg/L	*5*	**160**	***890***	*6.4*	-	-	*6.9*	-
ORPs									
Mercury	µg/L	*0.1*	**0.1**	***0.1***	<0.10	-	<0.10	-	-
Organochlorine Pesticides									
2,4' + 4,4' DDT	µg/L	*0.005*	**0.05**	***0.05***	-	<0.005	<0.005	-	-
DDD (total)	µg/L	*0.005*	**1.8**	***1.8***	-	<0.005	<0.005	-	-
DDE (total)	µg/L	*0.005*	**10**	***10***	-	<0.005	<0.005	-	-
Aldrin	µg/L	*0.005*	**0.01**	***0.35***	-	<0.005	<0.005	-	-
Chlordane (Total)	µg/L	*0.005*	**0.06**	***0.06***	-	<0.005	<0.005	-	-
Dieldrin	µg/L	*0.005*	**0.05**	***0.35***	-	<0.005	<0.005	-	-
Endosulfan	µg/L	*0.005*	**0.05**	***0.56***	-	<0.005	<0.005	-	-
Endrin	µg/L	*0.005*	**0.05**	***0.36***	-	<0.005	<0.005	-	-
Hexachlorocyclohexane (g-BHC, Lindane)	µg/L	*0.003*	**0.01**	***0.95***	-	<0.003	<0.003	-	-
Heptachlor	µg/L	*0.005*	**0.01**	***0.038***	-	<0.005	<0.005	-	-
Heptachlor epoxide	µg/L	*0.005*	**0.01**	***0.038***	-	<0.005	<0.005	-	-
Hexachlorobenzene	µg/L	*0.005*	**0.01**	***1***	-	<0.005	<0.005	-	-
Hexachloroethane	µg/L	*0.01*	**0.01**	***0.17***	-	<0.01	<0.01	-	-
Hexachlorobutadiene	µg/L	*0.009*	**0.01**	***0.012***	-	<0.009	<0.009	-	-
Methoxychlor	µg/L	*0.01*	**0.05**	***0.3***	-	<0.01	<0.01	-	-

Comments
#1 Standard is applicable to total xylenes; m & p-xylenes and o-xylenes should be summed for comparison.
#2 Standard is applicable to PHC in the F1 range minus BTEX.
#3 Standard is applicable to PHC F2 minus naphthalene. If naphthalene is not analyzed, the standard is applied to F2.
#4 Standard is applicable to PHC F3 minus PAHs (other than naphthalene). If PAHs have not been measured, the standard is applied to F3.
#5 Standard is applicable to Methylnaphthalene, 1- and Methylnaphthalene, 2-. If both are detected, the sum of the two must not exceed the standard.
#6 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(j)fluoranthene.
#7 Standard is applicable to total PCBs, Individual aroclors should be added for comparison.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

CAMBIUM

Table 5 - Groundwater Quality

				Location Code	BH101	BH103	BH104	BH105	BH106	BH107
				Field ID	BH101	BH103	BH104	BH105	BH106	BH107
				Depth						
				Date	27 Jan 2023	27 Jan 2023	01 Feb 2023	01 Feb 2023	27 Feb 2023	27 Feb 2023
	Unit	EQL	Table 1 - All Types of Property Use	*Table 6 - All Types of Property Use*						
BTEX										
Benzene	µg/L	*0.17*	**0.5**	***0.5***	<0.20	<0.20	<0.17	<0.17	<0.17	<0.17
Toluene	µg/L	*0.2*	**0.8**	***24***	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	*0.2*	**0.5**	***2.4***	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene (m & p)	µg/L	*0.2*			<0.40	<0.40	<0.20	<0.20	<0.20	<0.20
Xylene (o)	µg/L	*0.2*			<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene Total	µg/L	*0.2*	**72** [#1]	***72*** [#1]	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20
PHCs										
F1	µg/L	*25*	**420** [#2]	***420*** [#2]	<25	<25	<25	<25	<25	<25
F1 minus BTEX	µg/L	*25*	**420** [#2]	***420*** [#2]	<25	<25	<25	<25	<25	<25
F2	µg/L	*100*	**150** [#3]	***150*** [#3]	<100	<100	<100	<100	<100	<100
F3	µg/L	*200*	**500** [#4]	***500*** [#4]	<200	<200	<200	<200	<200	<200
F4	µg/L	*200*	**500**	***500***	<200	<200	<200	<200	<200	<200
VOCs										
Acetone	µg/L	*10*	**2,700**	***2,700***	-	-	<10	<10	<10	<10
Bromoform	µg/L	*1*	**5**	***5***	-	-	<1.0	<1.0	<1.0	<1.0
Bromomethane	µg/L	*0.5*	**0.89**	***0.89***	-	-	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	*0.5*	**2**	***16***	-	-	<0.50	<0.50	<0.50	<0.50
Carbon tetrachloride	µg/L	*0.2*	**0.2**	***0.2***	-	-	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	*0.2*	**0.5**	***30***	-	-	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	*0.2*	**2**	***2***	-	-	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	*0.5*	**2**	***25***	-	-	<0.50	<0.50	<0.50	<0.50
Dibromoethane,1,2-	µg/L	*0.2*	**0.2**	***0.2***	-	-	<0.20	<0.20	<0.20	<0.20
Dichlorobenzene, 1,2-	µg/L	*0.5*	**0.5**	***3***	-	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	*0.5*	**0.5**	***59***	-	-	<0.50	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	*0.5*	**0.5**	***0.5***	-	-	<0.50	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	*1*	**590**	***590***	-	-	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	*0.2*	**0.5**	***5***	-	-	<0.20	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	*0.5*	**0.5**	***0.5***	-	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	*0.2*	**0.5**	***0.5***	-	-	<0.20	<0.20	<0.20	<0.20
Dichloroethene, 1,2-cis-	µg/L	*0.5*	**1.6**	***1.6***	-	-	<0.50	<0.50	<0.50	<0.50
Dichloroethene, 1,2-trans-	µg/L	*0.5*	**1.6**	***1.6***	-	-	<0.50	<0.50	<0.50	<0.50
Dichloromethane	µg/L	*2*	**5**	***26***	-	-	<2.0	<2.0	<2.0	<2.0
Dichloropropane, 1,2-	µg/L	*0.2*	**0.5**	***0.58***	-	-	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3-	µg/L	*0.5*	**0.5**	***0.5***	-	-	<0.50	<0.50	<0.50	<0.50
Dichloropropene, 1,3- cis	µg/L	*0.3*			-	-	<0.30	<0.30	<0.30	<0.30
Dichloropropene, 1,3- trans	µg/L	*0.4*			-	-	<0.40	<0.40	<0.40	<0.40
Hexane	µg/L	*1*	**5**	***5***	-	-	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	µg/L	*10*	**400**	***1,800***	-	-	<10	<10	<10	<10
Methyl Iso-Butyl Ketone	µg/L	*5*	**640**	***640***	-	-	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	µg/L	*0.5*	**15**	***15***	-	-	<0.50	<0.50	<0.50	<0.50
Styrene	µg/L	*0.5*	**0.5**	***5.4***	-	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	µg/L	*0.2*	**0.5**	***0.5***	-	-	<0.20	<0.20	<0.20	<0.20
Tetrachloroethane, 1,1,1,2-	µg/L	*0.5*	**1.1**	***1.1***	-	-	<0.50	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	*0.5*	**0.5**	***0.5***	-	-	<0.50	<0.50	<0.50	<0.50
Trichloroethene	µg/L	*0.2*	**0.5**	***0.5***	-	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	*0.2*	**0.5**	***23***	-	-	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	*0.5*	**0.5**	***0.5***	-	-	<0.50	<0.50	<0.50	<0.50
Trichlorofluoromethane	µg/L	*0.5*	**150**	***150***	-	-	<0.50	<0.50	<0.50	<0.50
Vinyl chloride	µg/L	*0.2*	**0.5**	***0.5***	-	-	<0.20	<0.20	<0.20	<0.20
PAH										
1 & 2 Methylnaphthalene	µg/L	*0.071*	**2** [#5]	***3.2*** [#5]	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
1-Methylnaphthalene	µg/L	*0.05*	**2** [#5]	***3.2*** [#5]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-methylnaphthalene	µg/L	*0.05*	**2** [#5]	***3.2*** [#5]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthene	µg/L	*0.05*	**4.1**	***4.1***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	µg/L	*0.05*	**1**	***1***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	µg/L	*0.05*	**0.1**	***1***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	µg/L	*0.05*	**0.2**	***1***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a) pyrene	µg/L	*0.009*	**0.01**	***0.01***	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090
Benzo(b+j)fluoranthene	µg/L	*0.05*	**0.1** [#6]	***0.1*** [#6]	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	µg/L	*0.05*	**0.2**	***0.2***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(e)pyrene	µg/L	*0.05*			<0.050	<0.050	<0.050	<0.050	-	-
Benzo(k)fluoranthene	µg/L	*0.05*	**0.1**	***0.1***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	µg/L	*0.05*	**0.1**	***0.1***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	µg/L	*0.05*	**0.2**	***0.2***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	µg/L	*0.05*	**0.4**	***0.41***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	µg/L	*0.05*	**120**	***120***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	µg/L	*0.05*	**0.2**	***0.2***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Naphthalene	µg/L	*0.05*	**7**	***7***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	µg/L	*0.03*	**0.1**	***1***	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Pyrene	µg/L	*0.05*	**0.2**	***4.1***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Perylene	µg/L	*0.05*			<0.050	<0.050	<0.050	<0.050	-	-
PCBs										
Arochlor 1242	µg/L	*0.05*			-	-	<0.05	-	-	-
Arochlor 1248	µg/L	*0.05*			-	-	<0.05	-	-	-
Arochlor 1254	µg/L	*0.05*			-	-	<0.05	-	-	-
Arochlor 1260	µg/L	*0.05*			-	-	<0.05	-	-	-
PCBs	µg/L	*0.05*	**0.2** [#7]	***0.2*** [#7]	-	-	<0.05	-	-	-
Metals										
Antimony (filtered)	µg/L	*0.5*	**1.5**	***6***	<0.50	<0.50	<0.50	-	**<2.5**	<0.50
Arsenic (filtered)	µg/L	*1*	**13**	***25***	<1.0	<1.0	<1.0	-	<5.0	<1.0
Barium (filtered)	µg/L	*2*	**610**	***1,000***	*89*	*41*	*27*	-	*26*	*28*
Beryllium (filtered)	µg/L	*0.4*	**0.5**	***4***	<0.40	<0.40	<0.40	-	**<2.0**	<0.40
Boron (filtered)	µg/L	*10*	**1,700**	***5,000***	*160*	*1,100*	*200*	-	*570*	*44*
Cadmium (filtered)	µg/L	*0.09*	**0.5**	***2.1***	<0.090	*0.13*	<0.090	-	<0.45	<0.090
Chromium (III+VI) (filtered)	µg/L	*5*	**11**	***50***	<5.0	<5.0	<5.0	-	**<25**	<5.0
Cobalt (filtered)	µg/L	*0.5*	**3.8**	***3.8***	<0.50	<0.50	*0.6*	-	*3.5*	<0.50
Copper (filtered)	µg/L	*0.9*	**5**	***69***	**6.9**	**18**	*1.5*	-	<4.5	*1.2*
Lead (filtered)	µg/L	*0.5*	**1.9**	***10***	<0.50	*0.66*	<0.50	-	**<2.5**	<0.50
Molybdenum (filtered)	µg/L	*0.5*	**23**	***70***	*18*	*1.5*	*4.6*	-	*7.8*	*0.74*
Nickel (filtered)	µg/L	*1*	**14**	***100***	*2.5*	**35**	*4.7*	-	*9.8*	<1.0
Selenium (filtered)	µg/L	*2*	**5**	***10***	*2.8*	<2.0	**8.2**	-	**<10**	<2.0
Silver (filtered)	µg/L	*0.09*	**0.3**	***1.2***	<0.090	<0.090	<0.090	-	**<0.45**	<0.090
Sodium (filtered)	µg/L	*100*	**490,000**	***490,000***	*110,000*	*460,000*	*76,000*	-	*270,000*	*8,300*
Thallium (filtered)	µg/L	*0.05*	**0.5**	***2***	<0.050	<0.050	<0.050	-	<0.25	<0.050
Uranium (filtered)	µg/L	*0.1*	**8.9**	***20***	**13**	***24***	**9.4**	-	***33***	*0.82*
Vanadium (filtered)	µg/L	*0.5*	**3.9**	***6.2***	<0.50	<0.50	<0.50	-	<2.5	<0.50
Zinc (filtered)	µg/L	*5*	**160**	***890***	*6.4*	*15*	<5.0	-	*29*	<5.0
ORPs										
Mercury	µg/L	*0.1*	**0.1**	***0.1***	<0.10	-	-	-	-	-
Organochlorine Pesticides										
2,4' + 4,4' DDT	µg/L	*0.005*	**0.05**	***0.05***	-	-	<0.005	-	-	-
DDD (total)	µg/L	*0.005*	**1.8**	***1.8***	-	-	<0.005	-	-	-
DDE (total)	µg/L	*0.005*	**10**	***10***	-	-	<0.005	-	-	-
Aldrin	µg/L	*0.005*	**0.01**	***0.35***	-	-	<0.005	-	-	-
Chlordane (Total)	µg/L	*0.005*	**0.06**	***0.06***	-	-	<0.005	-	-	-
Dieldrin	µg/L	*0.005*	**0.05**	***0.35***	-	-	<0.005	-	-	-
Endosulfan	µg/L	*0.005*	**0.05**	***0.56***	-	-	<0.005	-	-	-
Endrin	µg/L	*0.005*	**0.05**	***0.36***	-	-	<0.005	-	-	-
Hexachlorocyclohexane (g-BHC, Lindane)	µg/L	*0.003*	**0.01**	***0.95***	-	-	<0.003	-	-	-
Heptachlor	µg/L	*0.005*	**0.01**	***0.038***	-	-	<0.005	-	-	-
Heptachlor epoxide	µg/L	*0.005*	**0.01**	***0.038***	-	-	<0.005	-	-	-
Hexachlorobenzene	µg/L	*0.005*	**0.01**	***1***	-	-	<0.005	-	-	-
Hexachloroethane	µg/L	*0.01*	**0.01**	***0.17***	-	-	<0.01	-	-	-
Hexachlorobutadiene	µg/L	*0.009*	**0.01**	***0.012***	-	-	<0.009	-	-	-
Methoxychlor	µg/L	*0.01*	**0.05**	***0.3***	-	-	<0.01	-	-	-

Comments
#1 Standard is applicable to total xylenes; m & p-xylenes and o-xylenes should be summed for comparison.
#2 Standard is applicable to PHC in the F1 range minus BTEX.
#3 Standard is applicable to PHC F2 minus naphthalene. If naphthalene is not analyzed, the standard is applied to F2.
#4 Standard is applicable to PHC F3 minus PAHs (other than naphthalene). If PAHs have not been measured, the standard is applied to F3.
#5 Standard is applicable to Methylnaphthalene, 1- and Methylnaphthalene, 2-. If both are detected, the sum of the two must not exceed the standard.
#6 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(j)fluoranthene.
#7 Standard is applicable to total PCBs, Individual aroclors should be added for comparison.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Table 5 - Groundwater Quality

				Location Code	BH101	BH108	BH108	BH111
				Field ID	BH101	BH108	QAQC103	BH111
				Depth				
				Date	27 Jan 2023	01 Feb 2023	01 Feb 2023	01 Feb 2023
	Unit	*EQL*	**Table 1 - All Types of Property Use**	***Table 6 - All Types of Property Use***				
BTEX								
Benzene	µg/L	*0.17*	**0.5**	***0.5***	<0.20	<0.17	<0.17	<0.17
Toluene	µg/L	*0.2*	**0.8**	***24***	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	*0.2*	**0.5**	***2.4***	<0.20	<0.20	<0.20	<0.20
Xylene (m & p)	µg/L	*0.2*			<0.40	<0.20	<0.20	<0.20
Xylene (o)	µg/L	*0.2*			<0.20	<0.20	<0.20	<0.20
Xylene Total	µg/L	*0.2*	**72**[#1]	***72***[#1]	<0.40	<0.20	<0.20	<0.20
PHCs								
F1	µg/L	*25*	**420**[#2]	***420***[#2]	<25	<25	<25	<25
F1 minus BTEX	µg/L	*25*	**420**[#2]	***420***[#2]	<25	<25	<25	<25
F2	µg/L	*100*	**150**[#3]	***150***[#3]	<100	<100	<100	<100
F3	µg/L	*200*	**500**[#4]	***500***[#4]	<200	<200	<200	<200
F4	µg/L	*200*	**500**	***500***	<200	<200	<200	<200
VOCs								
Acetone	µg/L	*10*	**2,700**	***2,700***	-	<10	<10	<10
Bromoform	µg/L	*1*	**5**	***5***	-	<1.0	<1.0	<1.0
Bromomethane	µg/L	*0.5*	**0.89**	***0.89***	-	<0.50	<0.50	<0.50
Bromodichloromethane	µg/L	*0.5*	**2**	***16***	-	<0.50	<0.50	<0.50
Carbon tetrachloride	µg/L	*0.2*	**0.2**	***0.2***	-	<0.20	<0.20	<0.20
Chlorobenzene	µg/L	*0.2*	**0.5**	***30***	-	<0.20	<0.20	<0.20
Chloroform	µg/L	*0.2*	**2**	***2***	-	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	*0.5*	**2**	***25***	-	<0.50	<0.50	<0.50
Dibromoethane,1,2-	µg/L	*0.2*	**0.2**	***0.2***	-	<0.20	<0.20	<0.20
Dichlorobenzene, 1,2-	µg/L	*0.5*	**0.5**	***3***	-	<0.50	<0.50	<0.50
Dichlorobenzene, 1,3-	µg/L	*0.5*	**0.5**	***59***	-	<0.50	<0.50	<0.50
Dichlorobenzene, 1,4-	µg/L	*0.5*	**0.5**	***0.5***	-	<0.50	<0.50	<0.50
Dichlorodifluoromethane	µg/L	*1*	**590**	***590***	-	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	*0.2*	**0.5**	***5***	-	<0.20	<0.20	<0.20
Dichloroethane, 1,2-	µg/L	*0.5*	**0.5**	***0.5***	-	<0.50	<0.50	<0.50
Dichloroethene, 1,1-	µg/L	*0.2*	**0.5**	***0.5***	-	<0.20	<0.20	<0.20
Dichloroethene, 1,2-cis-	µg/L	*0.5*	**1.6**	***1.6***	-	<0.50	<0.50	<0.50
Dichloroethene, 1,2-trans-	µg/L	*0.5*	**1.6**	***1.6***	-	<0.50	<0.50	<0.50
Dichloromethane	µg/L	*2*	**5**	***26***	-	<2.0	<2.0	<2.0
Dichloropropane, 1,2-	µg/L	*0.2*	**0.5**	***0.58***	-	<0.20	<0.20	<0.20
Dichloropropene, 1,3-	µg/L	*0.5*	**0.5**	***0.5***	-	<0.50	<0.50	<0.50
Dichloropropene, 1,3- cis	µg/L	*0.3*			-	<0.30	<0.30	<0.30
Dichloropropene, 1,3- trans	µg/L	*0.4*			-	<0.40	<0.40	<0.40
Hexane	µg/L	*1*	**5**	***5***	-	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	µg/L	*10*	**400**	***1,800***	-	<10	<10	<10
Methyl Iso-Butyl Ketone	µg/L	*5*	**640**	***640***	-	<5.0	<5.0	<5.0
Methyl tert-butyl ether	µg/L	*0.5*	**15**	***15***	-	<0.50	<0.50	<0.50
Styrene	µg/L	*0.5*	**0.5**	***5.4***	-	<0.50	<0.50	<0.50
Tetrachloroethene	µg/L	*0.2*	**0.5**	***0.5***	-	<0.20	<0.20	<0.20
Tetrachloroethane, 1,1,1,2-	µg/L	*0.5*	**1.1**	***1.1***	-	<0.50	<0.50	<0.50
Tetrachloroethane, 1,1,2,2-	µg/L	*0.5*	**0.5**	***0.5***	-	<0.50	<0.50	<0.50
Trichloroethene	µg/L	*0.2*	**0.5**	***0.5***	-	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	*0.2*	**0.5**	***23***	-	<0.20	<0.20	<0.20
Trichloroethane, 1,1,2-	µg/L	*0.5*	**0.5**	***0.5***	-	<0.50	<0.50	<0.50
Trichlorofluoromethane	µg/L	*0.5*	**150**	***150***	-	<0.50	<0.50	<0.50
Vinyl chloride	µg/L	*0.2*	**0.5**	***0.5***	-	<0.20	<0.20	<0.20
PAH								
1 & 2 Methylnaphthalene	µg/L	*0.071*	**2**[#5]	***3.2***[#5]	<0.071	<0.071	<0.071	<0.071
1-Methylnaphthalene	µg/L	*0.05*	**2**[#5]	***3.2***[#5]	<0.050	<0.050	<0.050	<0.050
2-methylnaphthalene	µg/L	*0.05*	**2**[#5]	***3.2***[#5]	<0.050	<0.050	<0.050	<0.050
Acenaphthene	µg/L	*0.05*	**4.1**	***4.1***	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	µg/L	*0.05*	**1**	***1***	<0.050	<0.050	<0.050	<0.050
Anthracene	µg/L	*0.05*	**0.1**	***1***	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	µg/L	*0.05*	**0.2**	***1***	<0.050	<0.050	<0.050	<0.050
Benzo(a) pyrene	µg/L	*0.009*	**0.01**	***0.01***	<0.0090	<0.0090	<0.0090	<0.0090
Benzo(b+j)fluoranthene	µg/L	*0.05*	**0.1**[#6]	***0.1***[#6]	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	µg/L	*0.05*	**0.2**	***0.2***	<0.050	<0.050	<0.050	<0.050
Benzo(e)pyrene	µg/L	*0.05*			<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	µg/L	*0.05*	**0.1**	***0.1***	<0.050	<0.050	<0.050	<0.050
Chrysene	µg/L	*0.05*	**0.1**	***0.1***	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	µg/L	*0.05*	**0.2**	***0.2***	<0.050	<0.050	<0.050	<0.050
Fluoranthene	µg/L	*0.05*	**0.4**	***0.41***	<0.050	<0.050	<0.050	<0.050
Fluorene	µg/L	*0.05*	**120**	***120***	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	µg/L	*0.05*	**0.2**	***0.2***	<0.050	<0.050	<0.050	<0.050
Naphthalene	µg/L	*0.05*	**7**	***7***	<0.050	<0.050	<0.050	<0.050
Phenanthrene	µg/L	*0.03*	**0.1**	***1***	<0.030	<0.030	<0.030	<0.030
Pyrene	µg/L	*0.05*	**0.2**	***4.1***	<0.050	<0.050	<0.050	<0.050
Perylene	µg/L	*0.05*			<0.050	<0.050	<0.050	<0.050
PCBs								
Arochlor 1242	µg/L	*0.05*			-	-	-	-
Arochlor 1248	µg/L	*0.05*			-	-	-	-
Arochlor 1254	µg/L	*0.05*			-	-	-	-
Arochlor 1260	µg/L	*0.05*			-	-	-	-
PCBs	µg/L	*0.05*	**0.2**[#7]	***0.2***[#7]	-	-	-	-
Metals								
Antimony (filtered)	µg/L	*0.5*	**1.5**	***6***	<0.50	<0.50	<0.50	**2**
Arsenic (filtered)	µg/L	*1*	**13**	***25***	<1.0	<1.0	<1.0	*8.1*
Barium (filtered)	µg/L	*2*	**610**	***1,000***	*89*	*16*	*15*	*15*
Beryllium (filtered)	µg/L	*0.4*	**0.5**	***4***	<0.40	<0.40	<0.40	<0.40
Boron (filtered)	µg/L	*10*	**1,700**	***5,000***	*160*	*310*	*310*	*810*
Cadmium (filtered)	µg/L	*0.09*	**0.5**	***2.1***	<0.090	<0.090	<0.090	<0.090
Chromium (III+VI) (filtered)	µg/L	*5*	**11**	***50***	<5.0	<5.0	<5.0	<5.0
Cobalt (filtered)	µg/L	*0.5*	**3.8**	***3.8***	<0.50	<0.50	<0.50	*1.5*
Copper (filtered)	µg/L	*0.9*	**5**	***69***	**6.9**	*1.2*	*1.1*	*1.1*
Lead (filtered)	µg/L	*0.5*	**1.9**	***10***	<0.50	<0.50	<0.50	<0.50
Molybdenum (filtered)	µg/L	*0.5*	**23**	***70***	*18*	*1.8*	*1.6*	**210**
Nickel (filtered)	µg/L	*1*	**14**	***100***	*2.5*	*1.6*	*1.5*	*2.5*
Selenium (filtered)	µg/L	*2*	**5**	***10***	*2.8*	<2.0	<2.0	***17***
Silver (filtered)	µg/L	*0.09*	**0.3**	***1.2***	<0.090	<0.090	<0.090	<0.090
Sodium (filtered)	µg/L	*100*	**490,000**	***490,000***	*110,000*	*57,000*	*54,000*	***1,200,000***
Thallium (filtered)	µg/L	*0.05*	**0.5**	***2***	<0.050	<0.050	<0.050	*0.13*
Uranium (filtered)	µg/L	*0.1*	**8.9**	***20***	**13**	*5.8*	*5.7*	***140***
Vanadium (filtered)	µg/L	*0.5*	**3.9**	***6.2***	<0.50	<0.50	<0.50	<0.50
Zinc (filtered)	µg/L	*5*	**160**	***890***	*6.4*	<5.0	<5.0	*5.3*
ORPs								
Mercury	µg/L	*0.1*	**0.1**	***0.1***	<0.10	-	-	-
Organochlorine Pesticides								
2,4' + 4,4' DDT	µg/L	*0.005*	**0.05**	***0.05***	-	-	-	-
DDD (total)	µg/L	*0.005*	**1.8**	***1.8***	-	-	-	-
DDE (total)	µg/L	*0.005*	**10**	***10***	-	-	-	-
Aldrin	µg/L	*0.005*	**0.01**	***0.35***	-	-	-	-
Chlordane (Total)	µg/L	*0.005*	**0.06**	***0.06***	-	-	-	-
Dieldrin	µg/L	*0.005*	**0.05**	***0.35***	-	-	-	-
Endosulfan	µg/L	*0.005*	**0.05**	***0.56***	-	-	-	-
Endrin	µg/L	*0.005*	**0.05**	***0.36***	-	-	-	-
Hexachlorocyclohexane (g-BHC, Lindane)	µg/L	*0.003*	**0.01**	***0.95***	-	-	-	-
Heptachlor	µg/L	*0.005*	**0.01**	***0.038***	-	-	-	-
Heptachlor epoxide	µg/L	*0.005*	**0.01**	***0.038***	-	-	-	-
Hexachlorobenzene	µg/L	*0.005*	**0.01**	***1***	-	-	-	-
Hexachloroethane	µg/L	*0.01*	**0.01**	***0.17***	-	-	-	-
Hexachlorobutadiene	µg/L	*0.009*	**0.01**	***0.012***	-	-	-	-
Methoxychlor	µg/L	*0.01*	**0.05**	***0.3***	-	-	-	-

Comments
#1 Standard is applicable to total xylenes; m & p-xylenes and o-xylenes should be summed for comparison.
#2 Standard is applicable to PHC in the F1 range minus BTEX.
#3 Standard is applicable to PHC F2 minus naphthalene. If naphthalene is not analyzed, the standard is applied to F2.
#4 Standard is applicable to PHC F3 minus PAHs (other than naphthalene). If PAHs have not been measured, the standard is applied to F3.
#5 Standard is applicable to Methylnaphthalene, 1- and Methylnaphthalene, 2-. If both are detected, the sum of the two must not exceed the standard.
#6 Standard is for benzo(b)fluoranthene; however, the laboratory can not distinguish between benzo(b)fluoranthene and benzo(j)fluoranthene.
#7 Standard is applicable to total PCBs, Individual aroclors should be added for comparison.

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Table 6 - Sediment Quality

			Location Code	SED101	SED101	SED101	SED102	SED102	SED103	SED103	SED103	SED104
			Field ID	QA/QC #1	SED101	SED 101	SED102	SED 102	QAQC 2	SED103	SED 103	SED 104
			Date	20 Dec 2022	20 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	30 Nov 2023	21 Dec 2022	30 Nov 2023	30 Nov 2023
	Unit	EQL	Types of Property Use									
BTEX												
Benzene	ug/g	0.02	NV	<0.020	<0.020	<0.060	<0.020	<0.060	<0.060	<0.020	<0.060	<0.020
Toluene	ug/g	0.02	NV	<0.020	<0.020	<0.060	<0.020	<0.060	<0.060	<0.020	<0.060	<0.020
Ethylbenzene	ug/g	0.02	NV	<0.020	<0.020	<0.060	<0.020	<0.060	<0.060	<0.020	<0.060	<0.020
Xylene (m & p)	ug/g	0.04	NV	<0.040	<0.040	<0.12	<0.040	<0.12	<0.12	<0.040	<0.12	<0.040
Xylene (o)	ug/g	0.02	NV	<0.020	<0.020	<0.060	<0.020	<0.060	<0.060	<0.020	<0.060	<0.020
Xylene Total	ug/g	0.04	NV	<0.040	<0.040	<0.12	<0.040	<0.12	<0.12	<0.040	<0.12	<0.040
PHCs												
F1	ug/g	10	NV	<10	<10	<30	<10	<30	<30	<10	<30	<10
F1 minus BTEX	µg/g	10	NV	<10	<10	<30	<10	<30	<30	<10	<30	<10
F2	ug/g	10	NV	<20	<10	<20	<20	<20	<20	<20	<20	<10
F3	ug/g	50	NV	<100	120	<100	130	<100	110	<100	110	<50
F4	ug/g	50	NV	<100	<50	<100	<100	<100	<100	<100	<100	<50
PAH												
1 & 2 Methylnaphthalene	ug/g	0.0071	NV	0.026	0.019	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.0071
1-Methylnaphthalene	ug/g	0.005	NV	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050
2-methylnaphthalene	ug/g	0.005	NV	0.026	0.019	<0.010	0.01	<0.010	<0.010	<0.010	<0.010	<0.0050
Acenaphthene	ug/g	0.005	NV	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050
Acenaphthylene	ug/g	0.005	NV	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050
Anthracene	ug/g	0.005	0.22	<0.010	<0.010	<0.010	0.019	<0.010	<0.010	<0.010	<0.010	<0.0050
Benz(a)anthracene	ug/g	0.005	0.32	<0.010	<0.010	0.016	0.073	<0.010	0.012	0.012	<0.010	<0.0050
Benzo(a) pyrene	ug/g	0.005	0.37	0.014	0.011	0.016	0.076	<0.010	0.016	0.014	0.013	<0.0050
Benzo(b+j)fluoranthene	ug/g	0.005	NV	0.025	0.02	0.026	0.1	0.018	0.027	0.024	0.023	<0.0050
Benzo(g,h,i)perylene	ug/g	0.005	0.17	0.021	0.017	0.017	0.061	0.013	0.02	0.023	0.018	<0.0050
Benzo(k)fluoranthene	ug/g	0.005	0.24	<0.010	<0.010	<0.010	0.039	<0.010	<0.010	<0.010	<0.010	<0.0050
Chrysene	ug/g	0.005	0.34	0.013	<0.010	0.014	0.062	<0.010	0.013	0.012	0.011	<0.0050
Dibenz(a,h)anthracene	ug/g	0.005	0.06	<0.010	<0.010	<0.010	0.014	<0.010	<0.010	<0.010	<0.010	<0.0050
Fluoranthene	ug/g	0.005	0.75	0.027	0.021	0.033	0.16	0.021	0.028	0.026	0.025	<0.0050
Fluorene	ug/g	0.005	0.19	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050
Indeno(1,2,3-c,d)pyrene	ug/g	0.005	0.2	0.015	0.013	0.014	0.062	<0.010	0.016	0.016	0.013	<0.0050
Naphthalene	ug/g	0.005	NV	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.0050
Phenanthrene	ug/g	0.005	0.56	0.011	<0.010	0.01	0.054	<0.010	0.012	0.012	0.012	<0.0050
Pyrene	µg/g	0.005	0.49	0.022	0.017	0.026	0.12	0.017	0.023	0.021	0.021	<0.0050
Metals												
Antimony	µg/g	0.2	NV	0.7	0.69	0.53	0.59	0.55	0.76	0.66	0.7	<0.20
Arsenic	µg/g	1	6	5.2	4.9	5.8	4.7	5.3	**7.1**	5.7	**6.2**	4.6
Barium	µg/g	0.5	NV	110	110	96	110	93	130	110	120	90
Beryllium	µg/g	0.2	NV	0.84	0.84	0.78	0.84	0.84	0.87	0.92	0.87	0.65
Boron	µg/g	5	NV	34	32	23	27	24	34	32	35	13
Cadmium	µg/g	0.1	0.6	0.25	0.24	0.15	0.25	0.14	0.27	0.3	0.27	0.1
Chromium (III+VI)	µg/g	1	26	26	25	24	25	25	**29**	**28**	**28**	20
Cobalt	µg/g	0.1	50	13	13	13	13	13	14	14	13	11
Copper	µg/g	0.5	16	**21**	**20**	**17**	**20**	**19**	**26**	**24**	**25**	**29**
Lead	µg/g	1	31	15	15	14	19	14	21	21	20	11
Molybdenum	µg/g	0.5	NV	2.1	2	3	2	2	3.6	2.4	3.5	0.75
Nickel	µg/g	0.5	16	**30**	**30**	**29**	**29**	**30**	**34**	**34**	**33**	**25**
Selenium	µg/g	0.5	NV	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	µg/g	0.2	0.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	µg/g	0.05	NV	0.23	0.23	0.2	0.19	0.2	0.24	0.25	0.24	0.15
Uranium	µg/g	0.05	NV	1.8	1.9	1.4	1.6	1.4	2	1.7	2	0.78
Vanadium	µg/g	5	NV	34	34	32	33	32	37	37	36	28
Zinc	µg/g	5	120	**190**	**190**	**160**	**140**	**150**	**280**	**240**	**260**	64
ORPs												
Boron (hot water soluble)	ug/g	0.05	NV	-	-	3.7	-	2.7	4.8	-	4.8	2.2
Chromium (hexavalent)	µg/g	0.18	NV	-	-	<0.36	-	<0.36	<0.36	-	<0.36	<0.18
Mercury	µg/g	0.05	0.2	-	-	<0.050	-	<0.050	<0.050	-	<0.050	<0.050

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Table 7 - Surface Water Quality

				Location Code	SW101	SW101	SW101	SW102	SW102	SW103	SW103	SW103	SW104
				Field ID	QA/QC#1	SW101	SW101	SW102	SW102	QAQC1	SW103	SW103	SW104
				Date	20 Dec 2022	20 Dec 2022	30 Nov 2023	21 Dec 2022	30 Nov 2023	30 Nov 2023	21 Dec 2022	30 Nov 2023	30 Nov 2023
	Unit	EQL	*Aquatic Protection Value*	PWQO									
BTEX													
Benzene	µg/L	0.2	*460*	100	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	0.2	*1,400*	0.8	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	µg/L	0.2	*181*	8	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene (m & p)	µg/L	0.4	*NV*	NV	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Xylene (o)	µg/L	0.2	*NV*	40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Xylene Total	µg/L	0.4	*330*	NV	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
PHCs													
F1	µg/L	25	*NV*	NV	<25	<25	<25	<25	<25	<25	<25	<25	<25
F1 minus BTEX	µg/L	25	*NV*	NV	<25	<25	<25	<25	<25	<25	<25	<25	<25
F2	µg/L	100	*NV*	NV	<100	<100	<100	<100	<100	<100	<100	<100	<100
F3	µg/L	200	*NV*	NV	<200	<200	<200	<200	<200	<200	<200	<200	<200
F4	µg/L	200	*NV*	NV	<200	<200	<200	<200	<200	<200	<200	<200	<200
PAH													
1 & 2 Methylnaphthalene	µg/L	0.071	*146*	NV	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
1-Methylnaphthalene	µg/L	0.05	*NV*	2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-methylnaphthalene	µg/L	0.05	*NV*	2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthene	µg/L	0.05	*520*	NV	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	µg/L	0.05	*0.14*	NV	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	µg/L	0.05	*0.1*	0.0008	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	µg/L	0.05	*0.18*	0.0004	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a) pyrene	µg/L	0.009	*0.21*	NV	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090
Benzo(b+j)fluoranthene	µg/L	0.05	*NV*	NV	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	µg/L	0.05	*0.02*	0.00002	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(e)pyrene	µg/L	0.05	*NV*	NV	<0.050	<0.050	-	<0.050	-	-	<0.050	-	-
Benzo(k)fluoranthene	µg/L	0.05	*0.14*	0.0002	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	µg/L	0.05	*0.07*	0.0001	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	µg/L	0.05	*0.04*	0.002	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	µg/L	0.05	*7.3*	0.0008	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	µg/L	0.05	*29*	0.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	µg/L	0.05	*0.14*	NV	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Naphthalene	µg/L	0.05	*620*	7	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Phenanthrene	µg/L	0.03	*38*	0.03	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Pyrene	µg/L	0.05	*0.57*	NV	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Perylene	µg/L	0.05	*NV*	0.00007	<0.050	<0.050	-	<0.050	-	-	<0.050	-	-
Metals													
Antimony	µg/L	0.5	*1,600*	20	0.61	<0.50	-	<0.50	-	-	<0.50	-	-
Antimony (filtered)	µg/L	0.5	*1,600*	20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.52	<0.50
Arsenic	µg/L	1	*150*	5	5.6	1.9	-	1	-	-	<1.0	-	-
Arsenic (filtered)	µg/L	1	*150*	5	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	1.7	<1.0
Barium (filtered)	µg/L	2	*2,300*	NV	130	130	77	130	120	76	130	93	85
Beryllium	µg/L	0.4	*5.3*	11..1,100[#1]	<0.40	<0.40	-	<0.40	-	-	<0.40	-	-
Beryllium (filtered)	µg/L	0.4	*5.3*	11..1,100[#1]	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Boron	µg/L	10	*3,550*	200	1,200	1,300	-	1,300	-	-	1,300	-	-
Boron (filtered)	µg/L	10	*3,550*	200	1,200	1,200	990	1,300	860	820	1,300	790	1,200
Cadmium	µg/L	0.09	*0.21*	0.1..0.5[#1]	0.18	<0.090	-	<0.090	-	-	<0.090	-	-
Cadmium (filtered)	µg/L	0.09	*0.21*	0.1..0.5[#1]	<0.090	<0.090	<0.090	<0.090	0.14	<0.090	<0.090	<0.090	<0.090
Chloride (filtered)	µg/L	6,000	*180,000*	NV	-	-	*410,000*	-	*430,000*	*440,000*	-	*450,000*	*490,000*
Chromium (III+VI)	µg/L	5	*64*	1[#2]	8.7	<5.0	-	<5.0	-	-	54	-	-
Chromium (III+VI) (filtered)	µg/L	5	*64*	1[#2]	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt	µg/L	0.5	*5.2*	0.9	*6.3*	2.5	-	1.5	-	-	0.83	-	-
Cobalt (filtered)	µg/L	0.5	*5.2*	0.9	<0.50	<0.50	<0.50	<0.50	2.2	<0.50	<0.50	0.86	<0.50
Copper	µg/L	0.9	*6.9*	1..5[#1]	*11*	5.1	-	2.9	-	-	2.5	-	-
Copper (filtered)	µg/L	0.9	*6.9*	1..5[#1]	<0.90	<0.90	1.7	<0.90	*10*	2.2	<0.90	4.2	1.2
Iron	µg/L	100	*NV*	300	11,000	4,400	-	2,700	-	-	1,600	-	-
Lead	µg/L	0.5	*2*	1..5[#1]	*6.2*	*2.8*	-	1.6	-	-	0.98	-	-
Lead (filtered)	µg/L	0.5	*2*	1..5[#1]	<0.50	<0.50	<0.50	<0.50	*7.4*	0.78	<0.50	*3.2*	<0.50
Molybdenum	µg/L	0.5	*730*	40	13	12	-	11	-	-	12	-	-
Molybdenum (filtered)	µg/L	0.5	*730*	40	11	11	7.4	11	3.6	7.4	12	5.5	11
Nickel	µg/L	1	*39*	25	14	6.9	-	4.7	-	-	5.1	-	-
Nickel (filtered)	µg/L	1	*39*	25	1.4	1.3	1.3	1.6	4.3	1.2	1.7	2.1	1.3
Selenium	µg/L	2	*5*	100	<2.0	<2.0	-	<2.0	-	-	<2.0	-	-
Selenium (filtered)	µg/L	2	*5*	100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	µg/L	0.09	*0.12*	0.1	<0.090	<0.090	-	<0.090	-	-	<0.090	-	-
Silver (filtered)	µg/L	0.09	*0.12*	0.1	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Sodium (filtered)	µg/L	100	*180,000*	NV	*410,000*	*410,000*	*270,000*	*410,000*	*230,000*	*290,000*	*410,000*	*290,000*	*290,000*
Thallium	µg/L	0.05	*40*	0.3	0.13	<0.050	-	<0.050	-	-	<0.050	-	-
Thallium (filtered)	µg/L	0.05	*40*	0.3	<0.050	<0.050	<0.050	<0.050	0.064	<0.050	<0.050	<0.050	<0.050
Tungsten	µg/L	1	*NV*	30	<1.0	<1.0	-	<1.0	-	-	<1.0	-	-
Uranium	µg/L	0.1	*33*	5	10	10	-	9.7	-	-	9.4	-	-
Uranium (filtered)	µg/L	0.1	*33*	5	9.1	9.1	8.3	9.5	8.2	8.4	9.5	8.6	9
Vanadium	µg/L	0.5	*20*	6	15	6	-	3.5	-	-	2	-	-
Vanadium (filtered)	µg/L	0.5	*20*	6	<0.50	<0.50	0.65	<0.50	6.3	0.88	<0.50	2.6	<0.50
Zinc	µg/L	5	*89*	20	*130*	48	-	16	-	-	20	-	-
Zinc (filtered)	µg/L	5	*89*	20	<5.0	<5.0	12	5	*95*	14	5.5	45	7.2
Zirconium	µg/L	1	*NV*	4	1	<1.0	-	<1.0	-	-	<1.0	-	-
ORPs													
Chromium (hexavalent)	µg/L	0.5	*11*	1	-	-	<0.50	-	<0.50	<0.50	-	<0.50	<0.50
Cyanide (WAD)	mg/L	0.001	*NV*	NV	-	-	<0.001	-	<0.001	<0.001	-	<0.001	<0.001
Mercury	µg/L	0.1	*0.77*	0.2	-	-	<0.10	-	<0.10	<0.10	-	<0.10	<0.10
Hardness as CaCO3	mg/L	1	*NV*	NV	-	-	780	-	790	730	-	730	1,000

Comments

#1 Depends on Hardness

#2 PWQO value for Total Chromium based on more stringent Chromium VI criteria.

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Appendix A

Sampling and Analysis Plan

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Sampling and Analysis Plan - 1200 King Road, Burlington, Ontario

2022-12-05

Prepared for:
Alinea Land Corporation

© Cambium 2019 Reference No.: 14455-002

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1.0 Introduction

This document outlines the Sampling and Analysis Plan (SAP) for the field work proposed for the Phase Two Environmental Site Assessment (ESA) being completed at 1200 King Road in Burlington, Ontario (Site or Phase Two Property). This SAP establishes a quality assurance and quality control (QA/QC) program, data quality objectives, standard operating procedures, and a description of potential physical impediments that may limit the ability to conduct sampling and analysis.

1.1 Objectives

Alinea Land Corporation (Client) retained Cambium Inc. (Cambium) to complete a Phase Two ESA at 1200 King Road in Burlington, Ontario.

The purpose of the Phase Two ESA will be to investigate soil, groundwater, sediment, and surface water quality in the identified areas of potential environmental concerns (APECs) through the drilling of boreholes, installation of monitoring wells, and the collection of soil and groundwater samples.

Contaminants of potential concern (COPCs) are petroleum hydrocarbon fractions 1 to 4 (PHC F1-F4), volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and metals, hydride forming metals, and other regulated parameters (ORPs) including mercury, electrical conductivity (EC), and sodium adsorption ratio (SAR). Potentially contaminated media is soil, groundwater, sediment, and surface water.

The overall objective of the Phase Two work program is to identify areas of contamination at the Phase Two property, if any, to support the filing of a Record of Site Condition (RSC) in accordance with Ontario Regulation (O.Reg.) 153/04.

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2.0 Work Proposed

Proposed boreholes and monitoring well locations and rationale are included in the following table:

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Borehole / Monitoring Well or Sediment Sample ID	Rationale
BH101	Investigate soil and groundwater quality for the COPCs related to APEC 1 and 4, and determine groundwater flow.
BH102	Investigate soil and groundwater quality for the COPCs related to APEC 1, 2, and 3, and determine groundwater flow.
BH103	Investigate soil and groundwater quality for the COPCs related to APEC 1, 2, and 3, and determine groundwater flow.
BH104	Investigate soil and groundwater quality for the COPCs related to APEC 1, 6, 8, G, H, and I, and determine groundwater flow.
BH105	Investigate soil and groundwater quality for the COPCs related to APEC 1, 6, 8, G, and H, and determine groundwater flow.
BH106	Investigate soil and groundwater quality for the COPCs related to APEC 1, 6, and 8, and determine groundwater flow.
BH107	Investigate soil and groundwater quality for the COPCs related to APEC 1 and determine groundwater flow.
BH108	Investigate soil and groundwater quality for the COPCs related to APEC 1 and determine groundwater flow.
BH109	Investigate soil quality for the COPCs related to APEC 1.
BH110	Investigate soil quality for the COPCs related to APEC 1 and 4.
BH111	Investigate soil quality for the COPCs related to APEC 1, 2, and 3.
BH112	Investigate soil quality for the COPCs related to APEC 1.
BH113	Investigate soil quality for the COPCs related to APEC 1.
SW101	Investigate surface water quality for the COPCs related to APEC 1.
SW102	Investigate surface water quality for the COPCs related to APEC 1.
SW103	Investigate surface water quality for the COPCs related to APEC 1.
SED101	Investigate sediment quality for the COPCs related to APEC 1.
SED102	Investigate sediment quality for the COPCs related to APEC 1.
SED103	Investigate sediment quality for the COPCs related to APEC 1 and 11.

To meet the objectives outlined above, the Phase Two ESA work program will generally consist of the following:

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- Advance eight boreholes (BH101 to 108) at least to the depth of the water table.
- Collect soil samples at regular intervals (0.76 metres) using a direct push sampling system;
- Instrument eight boreholes (BH101 to 108) with a monitoring well; and,
- Collect groundwater samples using a low-flow sampling method.

2.1 Quality Assurance

Cambium will maintain the following quality control measures throughout the Phase Two work program:

- Non-dedicated sampling and monitoring equipment will be decontaminated following each use and between each sampling location.
- A minimum of one (1) duplicate sample will be collected for every ten samples collected, for both soil and groundwater.
- Groundwater trip blanks will be submitted for analysis of VOCs with every groundwater VOC sample submission.

An analytical laboratory accredited by the Canadian Association of Laboratory Accreditation (CALA) will be utilized, and the laboratory will complete additional quality control measures (i.e. duplicates, method spikes) as required by its accreditation.

All laboratory certificates of analysis will be reviewed by Cambium for data integrity and quality control. If anomalies in the reported data are identified, Cambium will resample or collect additional samples, where possible and as required.

2.2 Sampling Methods

Boreholes will be advanced using a truck-mounted or track-mounted drill rig. Retrieved soil samples will be inspected for visible and olfactory evidence of contamination. Soil samples will be divided, with half or more of the sample placed in a dedicated polyethylene sample bag and sealed for field screening, and the remaining sample placed in dedicated sample jars or vials

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for analytical submission. Samples to be submitted for analysis of PHC F1 and/or VOCs will be collected using a pre-calibrated syringe sampler and methanol preserved vial.

Two-inch monitoring wells will be installed by a licensed well contractor. Monitoring wells will generally consist of a 3.1 m length of PVC screen with riser to the top of the well. Wells will be completed with either a flush-mount casing or a protective steel monument casing.

Groundwater samples will be collected following development of the well to ensure representative formation waters. Samples from each well will be collected using a low-flow peristaltic pump, with dedicated tubing installed in each of the monitoring wells. Groundwater samples requiring filtration will be field filtered using an in-line filter attached to the end of the polyethylene tubing.

Each sample will be handled by a Cambium field technician using dedicated nitrile gloves to minimize the potential for cross-contamination.

2.2.1 Sample Handling and Custody

Samples will be collected in laboratory-supplied sample containers, with preservative as necessary. All samples requiring laboratory analysis will be placed in a cooler and maintained at less than 10°C prior to and during transport to the laboratory.

Samples will be labelled with a unique sample ID, sampling date, and project number. All samples will be shipped to the laboratory under chain of custody protocols.

2.2.2 Instrumentation

The Phase Two work program will require the use of the following non-dedicated instrumentation and equipment: field water quality kit, peristaltic pump, and interface probe. Equipment will be inspected daily for damage or defects, and appropriate measures will be taken if necessary, prior to commencing field work. The interface probe will be decontaminated between monitoring wells using an Alconox wash, and rinsed with distilled water.

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2.3 Quality Control

2.3.1 Verification and Validation Methods

To validate the integrity of the laboratory analytical data as well as sampling methods, Cambium will determine the relative percent difference (RPD) of QA/QC duplicate samples and the corresponding numbered samples. Cambium will also review the analysis of trip blanks and laboratory completed matrix spikes.

RPD is calculated using the following formula:

$$RPD = \frac{|S - D|}{1/2(S + D)} * 100$$

Where S = numbered sample value

D = duplicate value

Low concentrations are more sensitive to RPD values; as such, RPDs will not be calculated where the parameter concentration in the sample and/or duplicate is less than five (5) times the laboratory RDL.

RPD values will be evaluated based on a target variance of 50% or less for soil and 30% or less for groundwater (CCME, 2016).

If an RPD is calculated above the allowable limits, Cambium will attempt to determine the source of the variance, and will assess whether the elevated RPD affects the integrity and usability of the data.

If detectable contaminant concentrations are identified in the trip blank, Cambium will assess the chain of custody protocols and sample transport procedures, and determine if there are impacts to the integrity of the data.

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Appendix B

Borehole Logs

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CAMBIUM

Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: 105.38 mREL
UTM: 17T **N:** 4797178.2 **E:** 593585.7

Log of Borehole: BH101
Page: 1 of 1
Date Completed: 2022-Dec-15

Elevation (m) / Depth	Lithology	Description (Elevation / Depth)	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI — 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa (nat V., rem V.) — 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
105.4 / 0		**(CL) SILTY CLAY:** Red, trace gravel, moist, no odours, no staining	1	SS	<5	<2	70					Groundwater level measured at 1.38 mbgs on January 5, 2023
104.9 / 0.5												
104.4 / 1			2	SS	<5	<2	70					BH101_1.52-2.13 & QA/QC#3: Metals and ORPs
103.9 / 1.5												
103.4 / 2			3	SS	<5	<2	70					
102.9 / 2.5		- grey in colour	4	SS	<5	<2	70					BH101_2.29-2.9: PHC, BTEX, PAH, PCB, OCP
102.4 / 3												
101.9 / 3.5			5	SS	<5	<2	70					
101.4 / 4												
100.96			6	SS	<5	<2	70					
100.9 / 4.5		Borehole terminated @ 4.4 mbgs 4.42 Target Depth Reached										
100.4 / 5												
99.9 / 5.5												
99.4 / 6												
98.9 / 6.5												
98.4												

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

Peterborough, Barrie, Oshawa, Kingston, Ottawa

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Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: 109.88 mREL
UTM: 17T **N:** 4797267.2 **E:** 593491.7

Log of Borehole: BH102
Page: 1 of 1
Date Completed: 2022-Dec-15

Elevation (m) / Depth	Lithology	Description (Elevation / Depth)	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI — 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa (nat V., rem V.) — 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
109.9 / 0		**(CL) SILTY CLAY:** Red, trace gravel, moist, no odours, no staining	1	SS	<5	<2	70					
109.4 / 0.5												
108.9 / 1			2	SS	<5	<2	70					BH102_0.76-1.37: Metals
108.4 / 1.5												
107.9 / 2			3	SS	<5	<2	70					
107.4 / 2.5												
106.9 / 3			4	SS	<5	<2	70					
106.4 / 3.5		- Some gravel, trace sand, wet	5	SS	<5	<2	70					Groundwater level measured at 3.42 mbgs on January 5, 2022
105.9 / 4												BH102_3.81-4.42: PHC, BTEX, PAH
105.4 / 4.5			6	SS	<5	<2	70					
104.9 / 5		104.7	7	SS	<5	<2	70					
104.4 / 5.5		Borehole terminated @ 5.2 mbgs 5.18 Target Depth Reached										
103.9 / 6												
103.4 / 6.5												
102.9												

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

Peterborough, Barrie, Oshawa, Kingston, Ottawa

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: 110.97 mREL
UTM: 17T **N:** 4797332.7 **E:** 593512.8

Log of Borehole: BH103
Page: 1 of 1
Date Completed: 2022-Dec-14

Elevation (m) / Depth	Description	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa (nat V., rem V.) 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
111 / 0	**FILL:** Red silty sand, some brick and gravel, moist, no odours, no staining	1	SS	<5	<2	10					
110.5 / 0.5											
110 / 1		2	SS	<5	<2	10					
109.5 / 1.5	109.45										
	1.52 **(CL) SILTY CLAY:** Red, trace gravel, moist, no odours, no staining	3	SS	<5	<2	70					BH103_1.52-2.13: Metals
109 / 2											
108.5 / 2.5		4	SS	<5	<2	90					
108 / 3											Groundwater level measured at 3.36 mbgs on January 5, 2023
107.5 / 3.5		5	SS	<5	<2	100					
107 / 4		6	SS	<5	<2	100					
106.5 / 4.5											
106 / 5		7	SS	<5	<2	100					
105.5 / 5.5											
105 / 6	- some gravel, saturated										
104.5 / 6.5		8	SS	<5	<2	50					BH103_6.10-6.71: PHC, BTEX, PAH
	104.26										
104 / 7	6.71 Borehole terminated @ 6.7 mbgs Target Depth Reached										
103.5											

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

Peterborough, Barrie, Oshawa, Kingston, Ottawa

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: 101.36 mREL
UTM: 17T **N:** 4797638.3 **E:** 594113.4

Log of Borehole: BH104
Page: 1 of 1
Date Completed: 2022-Dec-13

Elevation (m) / Depth	Lithology	Description	Elevation / Depth	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa nat V. rem V. 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
101.4 / 0													
		(CL) SILTY CLAY: Red, trace gravel, moist, no odours, no staining	100.75	1	SS	<5	1	50					
100.9 / 0.5													
		(ML) SILT: Red, trace clay and gravel, moist, no odours, no staining	0.61										
100.4 / 1				2	SS	<5	1	70					BH104_0.76-1.37: Metals
99.9 / 1.5				3	SS	<5	<2	70					
			99.53										
99.4 / 2		**(CL) SILTY CLAY:** Grey, moist, no odours, no staining	1.83	4	SS	<5	<2	70					
98.9 / 2.5				5	SS	<5	<2	70					BH104_2.23-2.90: PHC, BTEX, PAH
98.4 / 3													Groundwater level measured at 4.12 mbgs on January 5, 2023
97.9 / 3.5				6	SS	<5	<2	70					
		- wet											
97.4 / 4				7	SS	<5	<2	70					BH104_3.81-4.42: PHC, BTEX
96.9 / 4.5			96.94										
		Borehole terminated @ 4.4 mbgs Target Depth Reached	4.42										
96.4 / 5													
95.9 / 5.5													
95.4 / 6													
94.9 / 6.5													
94.4													

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: 101.74 mREL
UTM: 17T **N:** 4797694.4 **E:** 594071.7

Log of Borehole: BH105
Page: 1 of 1
Date Completed: 2022-Dec-13

Elevation (m)	Depth	Lithology	Description	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
101.7	0		**(CL) SILTY CLAY:** Red, trace gravel, moist, no staining, no odours	1	SS	<5	<2	100					
101.2	0.5												
100.7	1			2	SS	<5	<2	50					
100.2	1.5												
99.7	2			3	SS	<5	<2	50					
99.2	2.5			4	SS	<5	<2	70					
98.7	3		- grey in colour										
98.2	3.5			5	SS	<5	<2	90					Groundwater level measured at 4.12 mbgs on January 5, 2023
97.7	4			6	SS	<5	<2	30					
97.2	4.5		97.17										
			Borehole terminated @ 4.6 mbgs 4.57 Target Depth Reached										
96.7	5												
96.2	5.5												
95.7	6												
95.2	6.5												
94.7	7												
94.2													

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

Peterborough, Barrie, Oshawa, Kingston, Ottawa

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: 101.94 mREL
UTM: 17T **N:** 4797794.1 **E:** 593999.8

Log of Borehole: BH106
Page: 1 of 1
Date Completed: 2022-Dec-13

Elevation (m)	Depth	Lithology	Description	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa nat V. rem V. 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
101.9	0		**(CL) SILTY CLAY:** Red, trace gravel, moist, no staining, no odours	1	SS	<5	<2	40					
101.4	0.5												
100.9	1			2	SS	<5	<2	40					
100.4	1.5												
99.9	2		- grey in colour	3	SS	<5	<2	50					
99.4	2.5			4	SS	<5	<2	70					Groundwater level measured at 2.80 mbgs on January 5, 2023
98.9	3												
98.4	3.5		- some sand, saturated	5	SS	<5	<2	100					
97.98													
97.9	4		Borehole terminated @ 3.96 mbgs Target Depth Reached										Monitoring well reinstalled December 17, 2022
97.4	4.5												
96.9	5												
96.4	5.5												
95.9	6												
95.4	6.5												
94.9													

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Client:	Alinea Land Coporation	**Project Name:**	Phase Two Environmental Site Assessment	**Log of Borehole:**	BH107
Contractor:	Drilltech Drilling Ltd.	**Method:**	Track Mounted Hollow Stem Auger	Page:	1 of 1
Project No.:	14455-002	**Elevation:**	100.84 mREL	**Date Completed:**	2022-Dec-14
Location:	1200 King Road, Burlington, ON	**UTM:**	17T **N:** 4797439.9 **E:** 594008.3		

Elevation (m)	Depth	Lithology	Description	Elevation / Depth	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa nat V. rem V. 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
100.8	0		**(CL) SILTY CLAY:** Red, trace gravel, moist, no staining, no odours		1	SS	5	<2	60					BH107_0.0-0.61 & QAQC#1: PHC, BTEX, VOC, PAH, Metals
100.3	0.5		- trace sand											
99.8	1				2	SS	<5	<2	50					
99.3	1.5													
98.8	2				3	SS	<5	<2	50					Groundwater level measured at 1.80 mbgs on January 5, 2023
98.3	2.5		- grey in colour, saturated											
97.8	3				4	SS	<5	<2	50					BH107_2.29-2.9: PHC, BTEX, VOC, PAH, Metals
97.3	3.5				5	SS	<5	<2	50					
96.8	4		Borehole terminated @ 4 mbgs Target Depth Reached	96.88 / 3.96										Monitoring well reinstalled December 17, 2022
96.3	4.5													
95.8	5													
95.3	5.5													
94.8	6													
94.3	6.5													
93.8														

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

Peterborough, Barrie, Oshawa, Kingston, Ottawa

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Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: 104.64 mREL
UTM: 17T **N:** 4797628.4 **E:** 593745.1

Log of Borehole: BH108
Page: 1 of 1
Date Completed: 2022-Dec-14

Elevation (m) / Depth	Lithology	Description (Elevation / Depth)	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa (nat V., rem V.) 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
104.6 / 0		**(CL) SILTY CLAY:** Red, trace gravel and sand, moist, no staining, no odours	1	SS	<5	<2	50					Groundwater level measured at 0.15 mbgs on January 5, 2023
104.1 / 0.5												
103.6 / 1			2	SS	<5	<2	50					
103.1 / 1.5		- grey in colour										
102.6 / 2			3	SS	<5	4	70					
102.1 / 2.5			4	SS	<5	60	70					BH108_2.29-2.9: PHC, BTEX, VOC, PAH, Metals
101.6 / 3												
101.1 / 3.5			5	SS	<5	<2	100					
100.6 / 4			6	SS	<5	50	90					
100.1 / 4.5												
99.6 / 5												
99.1 / 5.5												
98.6 / 6												
98.1 / 6.5			7	SS	<5	1	90					
97.6 / 7			8	SS	<5	<2	75					BH108_6.7-7.32: PHC, BTEX
97.32 / 7.32		Borehole terminated @ 7.3 mbgs Target Depth Reached										

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

Peterborough, Barrie, Oshawa, Kingston, Ottawa

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CAMBIUM

Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: Not Measured
UTM: 17T **N:** 4797339 **E:** 593900

Log of Borehole: BH109
Page: 1 of 1
Date Completed: 2022-Dec-13

SUBSURFACE PROFILE			SAMPLE									
Elevation (m) / Depth	Lithology	Description (Elevation / Depth)	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI; 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa (nat V., rem V.); 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
0 / 0		**(CL) SILTY CLAY:** Red, trace gravel and sand, moist, no staining, no odours	1	SS	<5	<2	70					BH109_0.0-0.61: PHC, BTEX, PAH, Metals, EC, SAR, pH
-0.5 / 0.5												
-1 / 1			2	SS	<5	<2	70					
-1.5 / 1.5												
-2 / 2			3	SS	<5	<2	70					
-2.13		Borehole terminated @ 2.1 mbgs 2.13 Target Depth Reached										
-2.5 / 2.5												
-3 / 3												
-3.5 / 3.5												
-4 / 4												
-4.5 / 4.5												
-5 / 5												
-5.5 / 5.5												
-6 / 6												
-6.5 / 6.5												
-7												

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

CAMBIUM

Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: Not Measured
UTM: 17T **N:** 4797110 **E:** 593637

Log of Borehole: BH110
Page: 1 of 1
Date Completed: 2022-Dec-15

Elevation (m) / Depth	Lithology	Description (Elevation / Depth)	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa nat V. rem V. 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
0 / 0		**TOPSOIL:** Some organics, sand and gravel, brown. moist, no staining, no odours -0.61	1	SS	<5	<2	20					
-0.5 / 0.5		0.61 **FILL:** Brown Sandy Silt, moist, no staining, no odours -1.52	2	SS	<5	<2	50					
-1 / 1												
-1.5 / 1.5		1.52 **FILL:** Brown-grey sand and gravel, moist, no staining, no odours -2.29	3	SS	<5	<2	50					BH110_1.52-2.13 & QAQC#2: PHC, BTEX, VOC, PAH, Metals, OCP, PCB, EC, SAR, pH
-2 / 2												
-2.5 / 2.5		2.29 **(CL) SILTY CLAY:** Grey, trace gravel, moist, no staining, no odours -3.66	4	SS	<5	<2	70					
-3 / 3												
-3.5 / 3.5			5	SS	<5	<2	70					
-4 / 4		3.66 Borehole terminated @ 3.7 mbgs Target Depth Reached										
-4.5 / 4.5												
-5 / 5												
-5.5 / 5.5												
-6 / 6												
-6.5 / 6.5												
-7												

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

Peterborough, Barrie, Oshawa, Kingston, Ottawa

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: 102.84 mREL
UTM: 17T **N:** 4797476.3 **E:** 593774.1

Log of Borehole: BH111
Page: 1 of 1
Date Completed: 2022-Dec-14

Elevation (m)	Depth	Description	Elevation / Depth	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI 25 50 75 / % Moisture 25 50 75	Shear Strength Cu, kPa nat V. rem V. 20 40 60 80 / SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
102.8	0	**TOPSOIL:** Black sandy silt topsoil, some organics, moist, no staining, no odours	102.61 / 0.23	1	SS	<5	<2	80					Monitoring well observed dry on January 5, 2023
102.3	0.5	**(ML) CLAYEY SILT:** Reddish brown, some sand, moist, no staining, no odours											
101.8	1		101.62 / 1.22	2	SS	<5	<2	70					BH111_0.76-1.37: Metals
101.3	1.5	**(CL) SILTY CLAY:** Grey, moist, no staining, no odours		3	SS	<5	110	70					
100.8	2												
100.3	2.5			4	SS	60	200	70					BH111_2.29-2.9: PHC, BTEX, VOC, PAH
99.8	3												
99.3	3.5			5	SS	<5	5	70					
98.8	4												
98.3	4.5			6	SS	<5	8	70					
97.8	5												
97.3	5.5			7	SS	0	15	100					
96.8	6		96.9 / 5.94	8	SS	<5	<2	100					BH111_5.33-5.94: VOC
96.3	6.5	Borehole terminated @ 5.9 mbgs Target Depth Reached											
95.8													

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

Peterborough, Barrie, Oshawa, Kingston, Ottawa

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

CAMBIUM

Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: Not Measured
UTM: 17T **N:** 4797489 **E:** 593911

Log of Borehole: BH112
Page: 1 of 1
Date Completed: 2022-Dec-13

SUBSURFACE PROFILE			SAMPLE									
Elevation (m) / Depth	Lithology	Description (Elevation / Depth)	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI; 25 50 75; % Moisture 25 50 75	Shear Strength Cu, kPa (nat V., rem V.); 20 40 60 80; SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
0 / 0		**(SM) SILTY SAND:** Red, trace gravel, moist, no staining, no odours	1	SS	<5	<2	80					BH112_0.0-0.61: PHC, BTEX, PAH, Metals, SAR, EC, pH
-0.5 / 0.5												
-1 / 1			2	SS	<5	<2	60					BH112_0.76-1.37: EC, SAR
		-1.37										
-1.5 / 1.5		Borehole terminated @ 1.4 mbgs 1.37 Target Depth Reached										
-2 / 2												
-2.5 / 2.5												
-3 / 3												
-3.5 / 3.5												
-4 / 4												
-4.5 / 4.5												
-5 / 5												
-5.5 / 5.5												
-6 / 6												
-6.5 / 6.5												
-7												

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

CAMBIUM

Client: Alinea Land Coporation
Contractor: Drilltech Drilling Ltd.
Project No.: 14455-002
Location: 1200 King Road, Burlington, ON

Project Name: Phase Two Environmental Site Assessment
Method: Track Mounted Hollow Stem Auger
Elevation: Not Measured
UTM: 17T **N:** 4797719 **E:** 593952

Log of Borehole: BH113
Page: 1 of 1
Date Completed: 2022-12-13

SUBSURFACE PROFILE			SAMPLE										
Elevation (m) / Depth	Lithology	Description (Elevation / Depth)	Number	Type	CSV (ppm)	OV (ppm)	% Recovery	SPT (N)/DCPT	Atterberg Limits (%) LL PL PI; 25 50 75; % Moisture 25 50 75	Shear Strength Cu, kPa (nat V., rem V.); 20 40 60 80; SPT (N) / DCPT 20 40 60 80	Well Installation	Log Notes
0 / 0		**(CL) SILTY CLAY:** Red, some gravel, trace sand, moist, no staining, no odours	1	SS	<5	<2	80					BH113_0.0-0.61: PHC, BTEX, PAH, Metals, EC, SAR, pH
-0.5 / 0.5												
-1 / 1			2	SS	<5	<2	80					BH113_0.76-1.37: EC, SAR
-1.5 / 1.5		- grey in colour										
-2 / 2			3	SS	<5	<2	50					
-2.13												
-2.5 / 2.5		Borehole terminated @ 2.1 mbgs (2.13) Target Depth Reached										
-3 / 3												
-3.5 / 3.5												
-4 / 4												
-4.5 / 4.5												
-5 / 5												
-5.5 / 5.5												
-6 / 6												
-6.5 / 6.5												
-7												

GRAINSIZE DISTRIBUTION: SAMPLE | GRAVEL | SAND | SILT | CLAY

Logged By: LW **Input By:** MH

Peterborough, Barrie, Oshawa, Kingston, Ottawa

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Appendix C

Laboratory Certificates of Analysis

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Your Project #: 14455-002
Your C.O.C. #: 910869-01-01, 910869-02-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2022/12/30
Report #: R7450399
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2AI894
Received: 2022/12/15, 12:24

Sample Matrix: Soil
Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	9	N/A	2022/12/20	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum	1	N/A	2022/12/22	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	5	N/A	2022/12/21		EPA 8260C m
1,3-Dichloropropene Sum	1	N/A	2022/12/29		EPA 8260C m
Conductivity	3	2022/12/20	2022/12/20	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	2	2022/12/29	2022/12/29	CAM SOP-00414	OMOE E3530 v1 m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	5	N/A	2022/12/19	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	2	N/A	2022/12/28	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	10	2022/12/21	2022/12/21	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	1	2022/12/24	2022/12/29	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	1	2022/12/27	2022/12/28	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	10	2022/12/19	2022/12/20	CAM SOP-00447	EPA 6020B m
Moisture	10	N/A	2022/12/17	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2022/12/23	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	2	N/A	2022/12/28	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	9	2022/12/19	2022/12/20	CAM SOP-00318	EPA 8270D m
PAH Compounds in Soil by GC/MS (SIM)	1	2022/12/20	2022/12/22	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	3	2022/12/21	2022/12/21	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR)	3	N/A	2022/12/21	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	2	N/A	2022/12/30	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs	5	N/A	2022/12/20	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Soil	1	N/A	2022/12/29	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

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Your Project #: 14455-002
Your C.O.C. #: 910869-01-01, 910869-02-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2022/12/30
Report #: R7450399
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2AI894
Received: 2022/12/15, 12:24

Uncertainty has not been accounted for when stating conformity to the referenced standard.

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

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

(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(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 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

Please direct all questions regarding this Certificate of Analysis to:
Gemarie Balatico, Project Manager
Email: Gemarie.Balatico@bureauveritas.com
Phone# (905)817-5787

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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.

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID			UPH262	UPH265	UPH268	UPH269		
Sampling Date			2022/12/13	2022/12/13	2022/12/13	2022/12/13		
COC Number			910869-01-01	910869-01-01	910869-01-01	910869-01-01		
	UNITS	Criteria	BH104_0.76-1.37	BH113_0-0.61	BH112_0-0.61	BH109_0-0.61	RDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	1.3	<0.20	0.20	0.39	0.44	0.20	8412251
Acid Extractable Arsenic (As)	ug/g	18	3.3	2.7	4.1	5.7	1.0	8412251
Acid Extractable Barium (Ba)	ug/g	220	45	48	170	150	0.50	8412251
Acid Extractable Beryllium (Be)	ug/g	2.5	0.39	0.43	1.0	1.2	0.20	8412251
Acid Extractable Boron (B)	ug/g	36	8.5	9.5	25	22	5.0	8412251
Acid Extractable Cadmium (Cd)	ug/g	1.2	<0.10	<0.10	0.11	0.28	0.10	8412251
Acid Extractable Chromium (Cr)	ug/g	70	13	12	28	29	1.0	8412251
Acid Extractable Cobalt (Co)	ug/g	21	6.8	6.3	15	14	0.10	8412251
Acid Extractable Copper (Cu)	ug/g	92	6.2	17	12	22	0.50	8412251
Acid Extractable Lead (Pb)	ug/g	120	5.2	7.1	11	18	1.0	8412251
Acid Extractable Molybdenum (Mo)	ug/g	2	0.88	<0.50	0.77	1.0	0.50	8412251
Acid Extractable Nickel (Ni)	ug/g	82	12	14	34	32	0.50	8412251
Acid Extractable Selenium (Se)	ug/g	1.5	<0.50	<0.50	<0.50	<0.50	0.50	8412251
Acid Extractable Silver (Ag)	ug/g	0.5	<0.20	<0.20	<0.20	<0.20	0.20	8412251
Acid Extractable Thallium (Tl)	ug/g	1	0.060	0.076	0.13	0.18	0.050	8412251
Acid Extractable Uranium (U)	ug/g	2.5	0.72	0.63	1.4	2.4	0.050	8412251
Acid Extractable Vanadium (V)	ug/g	86	22	20	34	40	5.0	8412251
Acid Extractable Zinc (Zn)	ug/g	290	24	36	73	88	5.0	8412251

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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

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

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID			UPH271	UPH488	UPH490	UPH492		
Sampling Date			2022/12/13	2022/12/14	2022/12/14	2022/12/14		
COC Number			910869-01-01	910869-02-01	910869-02-01	910869-02-01		
	UNITS	Criteria	BH111_0.76-1.37	BH108_2.29-2.90	BH107_0-0.61	BH107_2.24-2.90	RDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	1.3	0.48	<0.20	0.48	<0.20	0.20	8412251
Acid Extractable Arsenic (As)	ug/g	18	4.7	4.8	6.2	4.5	1.0	8412251
Acid Extractable Barium (Ba)	ug/g	220	120	110	150	68	0.50	8412251
Acid Extractable Beryllium (Be)	ug/g	2.5	0.92	0.75	1.3	0.64	0.20	8412251
Acid Extractable Boron (B)	ug/g	36	19	13	22	16	5.0	8412251
Acid Extractable Cadmium (Cd)	ug/g	1.2	0.32	<0.10	0.32	<0.10	0.10	8412251
Acid Extractable Chromium (Cr)	ug/g	70	25	23	31	18	1.0	8412251
Acid Extractable Cobalt (Co)	ug/g	21	13	11	14	11	0.10	8412251
Acid Extractable Copper (Cu)	ug/g	92	21	28	18	25	0.50	8412251
Acid Extractable Lead (Pb)	ug/g	120	30	11	23	9.0	1.0	8412251
Acid Extractable Molybdenum (Mo)	ug/g	2	0.77	0.51	1.1	0.56	0.50	8412251
Acid Extractable Nickel (Ni)	ug/g	82	29	25	33	22	0.50	8412251
Acid Extractable Selenium (Se)	ug/g	1.5	<0.50	<0.50	<0.50	<0.50	0.50	8412251
Acid Extractable Silver (Ag)	ug/g	0.5	<0.20	<0.20	<0.20	<0.20	0.20	8412251
Acid Extractable Thallium (Tl)	ug/g	1	0.13	0.12	0.18	0.10	0.050	8412251
Acid Extractable Uranium (U)	ug/g	2.5	1.3	0.81	2.2	0.58	0.050	8412251
Acid Extractable Vanadium (V)	ug/g	86	33	30	42	27	5.0	8412251
Acid Extractable Zinc (Zn)	ug/g	290	96	58	100	50	5.0	8412251

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID			UPH493	UPH495		
Sampling Date			2022/12/14	2022/12/14		
COC Number			910869-02-01	910869-02-01		
	UNITS	Criteria	BH103_1.52-2.13	QA/QC# 1	RDL	QC Batch
Metals						
Acid Extractable Antimony (Sb)	ug/g	1.3	0.72	0.43	0.20	8412251
Acid Extractable Arsenic (As)	ug/g	18	4.8	5.9	1.0	8412251
Acid Extractable Barium (Ba)	ug/g	220	130	150	0.50	8412251
Acid Extractable Beryllium (Be)	ug/g	2.5	0.87	1.3	0.20	8412251
Acid Extractable Boron (B)	ug/g	36	28	20	5.0	8412251
Acid Extractable Cadmium (Cd)	ug/g	1.2	0.11	0.20	0.10	8412251
Acid Extractable Chromium (Cr)	ug/g	70	24	30	1.0	8412251
Acid Extractable Cobalt (Co)	ug/g	21	14	14	0.10	8412251
Acid Extractable Copper (Cu)	ug/g	92	10	19	0.50	8412251
Acid Extractable Lead (Pb)	ug/g	120	13	19	1.0	8412251
Acid Extractable Molybdenum (Mo)	ug/g	2	1.0	1.1	0.50	8412251
Acid Extractable Nickel (Ni)	ug/g	82	30	32	0.50	8412251
Acid Extractable Selenium (Se)	ug/g	1.5	<0.50	<0.50	0.50	8412251
Acid Extractable Silver (Ag)	ug/g	0.5	<0.20	<0.20	0.20	8412251
Acid Extractable Thallium (Tl)	ug/g	1	0.12	0.17	0.050	8412251
Acid Extractable Uranium (U)	ug/g	2.5	0.72	2.2	0.050	8412251
Acid Extractable Vanadium (V)	ug/g	86	32	41	5.0	8412251
Acid Extractable Zinc (Zn)	ug/g	290	73	95	5.0	8412251

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PAHS (SOIL)

Bureau Veritas ID			UPH263	UPH265	UPH268	UPH269	UPH486		
Sampling Date			2022/12/13	2022/12/13	2022/12/13	2022/12/13	2022/12/13		
COC Number			910869-01-01	910869-01-01	910869-01-01	910869-01-01	910869-02-01		
	UNITS	Criteria	BH104_2.23-2.90	BH113_0-0.61	BH112_0-0.61	BH109_0-0.61	BH111_2.29-2.90	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	0.59	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	8408435
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	0.072	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Acenaphthylene	ug/g	0.093	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Anthracene	ug/g	0.16	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Benzo(a)anthracene	ug/g	0.36	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Benzo(a)pyrene	ug/g	0.3	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Benzo(b/j)fluoranthene	ug/g	0.47	<0.0050	0.0051	<0.0050	0.0071	<0.0050	0.0050	8413054
Benzo(g,h,i)perylene	ug/g	0.68	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Benzo(k)fluoranthene	ug/g	0.48	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Chrysene	ug/g	2.8	<0.0050	<0.0050	<0.0050	<0.0050	0.0062	0.0050	8413054
Dibenzo(a,h)anthracene	ug/g	0.1	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Fluoranthene	ug/g	0.56	<0.0050	0.0066	<0.0050	0.0073	<0.0050	0.0050	8413054
Fluorene	ug/g	0.12	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Indeno(1,2,3-cd)pyrene	ug/g	0.23	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
1-Methylnaphthalene	ug/g	0.59	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
2-Methylnaphthalene	ug/g	0.59	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Naphthalene	ug/g	0.09	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Phenanthrene	ug/g	0.69	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	8413054
Pyrene	ug/g	1	<0.0050	0.0053	<0.0050	0.0058	<0.0050	0.0050	8413054
Surrogate Recovery (%)									
D10-Anthracene	%	-	98	91	95	96	102		8413054
D14-Terphenyl (FS)	%	-	87	78	89	82	94		8413054
D8-Acenaphthylene	%	-	91	87	91	92	96		8413054

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PAHS (SOIL)

Bureau Veritas ID			UPH488		UPH490		UPH492		
Sampling Date			2022/12/14		2022/12/14		2022/12/14		
COC Number			910869-02-01		910869-02-01		910869-02-01		
	UNITS	Criteria	BH108_2.29-2.90	QC Batch	BH107_0-0.61	QC Batch	BH107_2.24-2.90	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	0.59	<0.0071	8408435	<0.0071	8408435	<0.0071	0.0071	8408435
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	0.072	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Acenaphthylene	ug/g	0.093	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Anthracene	ug/g	0.16	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Benzo(a)anthracene	ug/g	0.36	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Benzo(a)pyrene	ug/g	0.3	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Benzo(b/j)fluoranthene	ug/g	0.47	<0.0050	8413054	0.0058	8415404	<0.0050	0.0050	8413054
Benzo(g,h,i)perylene	ug/g	0.68	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Benzo(k)fluoranthene	ug/g	0.48	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Chrysene	ug/g	2.8	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Dibenzo(a,h)anthracene	ug/g	0.1	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Fluoranthene	ug/g	0.56	<0.0050	8413054	0.0063	8415404	<0.0050	0.0050	8413054
Fluorene	ug/g	0.12	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Indeno(1,2,3-cd)pyrene	ug/g	0.23	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
1-Methylnaphthalene	ug/g	0.59	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
2-Methylnaphthalene	ug/g	0.59	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Naphthalene	ug/g	0.09	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Phenanthrene	ug/g	0.69	<0.0050	8413054	<0.0050	8415404	<0.0050	0.0050	8413054
Pyrene	ug/g	1	<0.0050	8413054	0.0054	8415404	<0.0050	0.0050	8413054
Surrogate Recovery (%)									
D10-Anthracene	%	-	99	8413054	91	8415404	103		8413054
D14-Terphenyl (FS)	%	-	88	8413054	93	8415404	90		8413054
D8-Acenaphthylene	%	-	95	8413054	87	8415404	95		8413054

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID			UPH494	UPH495		
Sampling Date			2022/12/14	2022/12/14		
COC Number			910869-02-01	910869-02-01		
	UNITS	Criteria	BH103_6.10-6.71	QA/QC# 1	RDL	QC Batch
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/g	0.59	<0.0071	<0.0071	0.0071	8408435
Polyaromatic Hydrocarbons						
Acenaphthene	ug/g	0.072	<0.0050	<0.0050	0.0050	8413054
Acenaphthylene	ug/g	0.093	<0.0050	<0.0050	0.0050	8413054
Anthracene	ug/g	0.16	<0.0050	<0.0050	0.0050	8413054
Benzo(a)anthracene	ug/g	0.36	<0.0050	<0.0050	0.0050	8413054
Benzo(a)pyrene	ug/g	0.3	<0.0050	<0.0050	0.0050	8413054
Benzo(b/j)fluoranthene	ug/g	0.47	<0.0050	0.0070	0.0050	8413054
Benzo(g,h,i)perylene	ug/g	0.68	<0.0050	<0.0050	0.0050	8413054
Benzo(k)fluoranthene	ug/g	0.48	<0.0050	<0.0050	0.0050	8413054
Chrysene	ug/g	2.8	<0.0050	<0.0050	0.0050	8413054
Dibenzo(a,h)anthracene	ug/g	0.1	<0.0050	<0.0050	0.0050	8413054
Fluoranthene	ug/g	0.56	<0.0050	0.010	0.0050	8413054
Fluorene	ug/g	0.12	<0.0050	<0.0050	0.0050	8413054
Indeno(1,2,3-cd)pyrene	ug/g	0.23	<0.0050	<0.0050	0.0050	8413054
1-Methylnaphthalene	ug/g	0.59	<0.0050	<0.0050	0.0050	8413054
2-Methylnaphthalene	ug/g	0.59	<0.0050	<0.0050	0.0050	8413054
Naphthalene	ug/g	0.09	<0.0050	<0.0050	0.0050	8413054
Phenanthrene	ug/g	0.69	<0.0050	0.0057	0.0050	8413054
Pyrene	ug/g	1	<0.0050	0.0077	0.0050	8413054
Surrogate Recovery (%)						
D10-Anthracene	%	-	97	94		8413054
D14-Terphenyl (FS)	%	-	88	87		8413054
D8-Acenaphthylene	%	-	89	89		8413054

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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

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

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID			UPH263			UPH263		
Sampling Date			2022/12/13			2022/12/13		
COC Number			910869-01-01			910869-01-01		
	UNITS	Criteria	BH104_2.23-2.90	RDL	QC Batch	BH104_2.23-2.90 Lab-Dup	RDL	QC Batch
Inorganics								
Moisture	%	-	13	1.0	8410471			
BTEX & F1 Hydrocarbons								
Benzene	ug/g	0.02	<0.020	0.020	8411335	<0.020	0.020	8411335
Toluene	ug/g	0.2	<0.020	0.020	8411335	<0.020	0.020	8411335
Ethylbenzene	ug/g	0.05	<0.020	0.020	8411335	<0.020	0.020	8411335
o-Xylene	ug/g	-	<0.020	0.020	8411335	<0.020	0.020	8411335
p+m-Xylene	ug/g	-	<0.040	0.040	8411335	<0.040	0.040	8411335
Total Xylenes	ug/g	0.05	<0.040	0.040	8411335	<0.040	0.040	8411335
F1 (C6-C10)	ug/g	25	<10	10	8411335	<10	10	8411335
F1 (C6-C10) - BTEX	ug/g	25	<10	10	8411335	<10	10	8411335
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	10	**11**	10	8415539			
F3 (C16-C34 Hydrocarbons)	ug/g	240	87	50	8415539			
F4 (C34-C50 Hydrocarbons)	ug/g	120	<50	50	8415539			
Reached Baseline at C50	ug/g	-	Yes		8415539			
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	-	100		8411335	100		8411335
4-Bromofluorobenzene	%	-	99		8411335	98		8411335
D10-o-Xylene	%	-	101		8411335	101		8411335
D4-1,2-Dichloroethane	%	-	101		8411335	100		8411335
o-Terphenyl	%	-	106		8415539			

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID			UPH264			UPH264			UPH265		
Sampling Date			2022/12/13			2022/12/13			2022/12/13		
COC Number			910869-01-01			910869-01-01			910869-01-01		
	UNITS	Criteria	BH104_3.81-4.42	RDL	QC Batch	BH104_3.81-4.42 Lab-Dup	RDL	QC Batch	BH113_0-0.61	RDL	QC Batch
Inorganics											
Moisture	%	-	15	1.0	8422076	14	1.0	8422076	21	1.0	8410471
BTEX & F1 Hydrocarbons											
Benzene	ug/g	0.02	<0.020	0.020	8422559				<0.020	0.020	8411335
Toluene	ug/g	0.2	<0.020	0.020	8422559				<0.020	0.020	8411335
Ethylbenzene	ug/g	0.05	<0.020	0.020	8422559				<0.020	0.020	8411335
o-Xylene	ug/g	-	<0.020	0.020	8422559				<0.020	0.020	8411335
p+m-Xylene	ug/g	-	<0.040	0.040	8422559				<0.040	0.040	8411335
Total Xylenes	ug/g	0.05	<0.040	0.040	8422559				<0.040	0.040	8411335
F1 (C6-C10)	ug/g	25	<10	10	8422559				<10	10	8411335
F1 (C6-C10) - BTEX	ug/g	25	<10	10	8422559				<10	10	8411335
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	10	<10	10	8422563				<10	10	8415539
F3 (C16-C34 Hydrocarbons)	ug/g	240	<50	50	8422563				<50	50	8415539
F4 (C34-C50 Hydrocarbons)	ug/g	120	<50	50	8422563				<50	50	8415539
Reached Baseline at C50	ug/g	-	Yes		8422563				Yes		8415539
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	-	108		8422559				100		8411335
4-Bromofluorobenzene	%	-	97		8422559				98		8411335
D10-o-Xylene	%	-	111		8422559				108		8411335
D4-1,2-Dichloroethane	%	-	89		8422559				100		8411335
o-Terphenyl	%	-	85		8422563				109		8415539

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

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QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID			UPH268	UPH269		UPH489		
Sampling Date			2022/12/13	2022/12/13		2022/12/14		
COC Number			910869-01-01	910869-01-01		910869-02-01		
	UNITS	Criteria	BH112_0-0.61	BH109_0-0.61	QC Batch	BH108_6.70-7.32	RDL	QC Batch
Inorganics								
Moisture	%	-	19	24	8410471	13	1.0	8425130
BTEX & F1 Hydrocarbons								
Benzene	ug/g	0.02	<0.020	<0.020	8411335	<0.020	0.020	8422559
Toluene	ug/g	0.2	<0.020	<0.020	8411335	<0.020	0.020	8422559
Ethylbenzene	ug/g	0.05	<0.020	<0.020	8411335	<0.020	0.020	8422559
o-Xylene	ug/g	-	<0.020	<0.020	8411335	<0.020	0.020	8422559
p+m-Xylene	ug/g	-	<0.040	<0.040	8411335	<0.040	0.040	8422559
Total Xylenes	ug/g	0.05	<0.040	<0.040	8411335	<0.040	0.040	8422559
F1 (C6-C10)	ug/g	25	<10	<10	8411335	<10	10	8422559
F1 (C6-C10) - BTEX	ug/g	25	<10	<10	8411335	<10	10	8422559
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	10	<10	<10	8415539	<10	10	8422986
F3 (C16-C34 Hydrocarbons)	ug/g	240	<50	<50	8415539	<50	50	8422986
F4 (C34-C50 Hydrocarbons)	ug/g	120	<50	<50	8415539	<50	50	8422986
Reached Baseline at C50	ug/g	-	Yes	Yes	8415539	Yes		8422986
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	-	99	99	8411335	103		8422559
4-Bromofluorobenzene	%	-	99	97	8411335	99		8422559
D10-o-Xylene	%	-	90	99	8411335	106		8422559
D4-1,2-Dichloroethane	%	-	103	100	8411335	93		8422559
o-Terphenyl	%	-	107	107	8415539	109		8422986

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID			UPH494		
Sampling Date			2022/12/14		
COC Number			910869-02-01		
	UNITS	Criteria	BH103_6.10-6.71	RDL	QC Batch
Inorganics					
Moisture	%	-	14	1.0	8410471
BTEX & F1 Hydrocarbons					
Benzene	ug/g	0.02	<0.020	0.020	8411335
Toluene	ug/g	0.2	<0.020	0.020	8411335
Ethylbenzene	ug/g	0.05	<0.020	0.020	8411335
o-Xylene	ug/g	-	<0.020	0.020	8411335
p+m-Xylene	ug/g	-	<0.040	0.040	8411335
Total Xylenes	ug/g	0.05	<0.040	0.040	8411335
F1 (C6-C10)	ug/g	25	<10	10	8411335
F1 (C6-C10) - BTEX	ug/g	25	<10	10	8411335
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	10	<10	10	8415539
F3 (C16-C34 Hydrocarbons)	ug/g	240	<50	50	8415539
F4 (C34-C50 Hydrocarbons)	ug/g	120	<50	50	8415539
Reached Baseline at C50	ug/g	-	Yes		8415539
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	-	101		8411335
4-Bromofluorobenzene	%	-	99		8411335
D10-o-Xylene	%	-	89		8411335
D4-1,2-Dichloroethane	%	-	106		8411335
o-Terphenyl	%	-	115		8415539

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

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

Bureau Veritas ID			UPH486	UPH488	UPH490	UPH492		
Sampling Date			2022/12/13	2022/12/14	2022/12/14	2022/12/14		
COC Number			910869-02-01	910869-02-01	910869-02-01	910869-02-01		
	UNITS	Criteria	BH111_2.29-2.90	BH108_2.29-2.90	BH107_0-0.61	BH107_2.24-2.90	RDL	QC Batch
Inorganics								
Moisture	%	-	17	13	23	19	1.0	8410471
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	0.05	<0.050	<0.050	<0.050	<0.050	0.050	8408647
Volatile Organics								
Acetone (2-Propanone)	ug/g	0.5	**13**	<0.49	<0.49	<0.49	0.49	8410792
Benzene	ug/g	0.02	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	8410792
Bromodichloromethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Bromoform	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Bromomethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Carbon Tetrachloride	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Chlorobenzene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Chloroform	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Dibromochloromethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
1,2-Dichlorobenzene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
1,3-Dichlorobenzene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
1,4-Dichlorobenzene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Dichlorodifluoromethane (FREON 12)	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
1,1-Dichloroethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
1,2-Dichloroethane	ug/g	0.05	<0.049	<0.049	<0.049	<0.049	0.049	8410792
1,1-Dichloroethylene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
cis-1,2-Dichloroethylene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
trans-1,2-Dichloroethylene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
1,2-Dichloropropane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
cis-1,3-Dichloropropene	ug/g	0.05	<0.030	<0.030	<0.030	<0.030	0.030	8410792
trans-1,3-Dichloropropene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Ethylbenzene	ug/g	0.05	<0.010	<0.010	<0.010	<0.010	0.010	8410792
Ethylene Dibromide	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Hexane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Methylene Chloride(Dichloromethane)	ug/g	0.05	<0.049	<0.049	<0.049	<0.049	0.049	8410792
Methyl Ethyl Ketone (2-Butanone)	ug/g	0.5	<0.40	<0.40	<0.40	<0.40	0.40	8410792

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

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QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

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

Bureau Veritas ID			UPH486	UPH488	UPH490	UPH492		
Sampling Date			2022/12/13	2022/12/14	2022/12/14	2022/12/14		
COC Number			910869-02-01	910869-02-01	910869-02-01	910869-02-01		
	UNITS	Criteria	BH111_2.29-2.90	BH108_2.29-2.90	BH107_0-0.61	BH107_2.24-2.90	RDL	QC Batch
Methyl Isobutyl Ketone	ug/g	0.5	<0.40	<0.40	<0.40	<0.40	0.40	8410792
Methyl t-butyl ether (MTBE)	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Styrene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Tetrachloroethylene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Toluene	ug/g	0.2	0.070	<0.020	<0.020	<0.020	0.020	8410792
1,1,1-Trichloroethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
1,1,2-Trichloroethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Trichloroethylene	ug/g	0.05	<0.010	<0.010	<0.010	<0.010	0.010	8410792
Trichlorofluoromethane (FREON 11)	ug/g	0.25	<0.040	<0.040	<0.040	<0.040	0.040	8410792
Vinyl Chloride	ug/g	0.02	<0.019	<0.019	<0.019	<0.019	0.019	8410792
p+m-Xylene	ug/g	-	<0.020	<0.020	<0.020	<0.020	0.020	8410792
o-Xylene	ug/g	-	<0.020	<0.020	<0.020	<0.020	0.020	8410792
Total Xylenes	ug/g	0.05	<0.020	<0.020	<0.020	<0.020	0.020	8410792
F1 (C6-C10)	ug/g	25	<10	<10	<10	<10	10	8410792
F1 (C6-C10) - BTEX	ug/g	25	<10	<10	<10	<10	10	8410792
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	10	<10	**12**	<10	<10	10	8415539
F3 (C16-C34 Hydrocarbons)	ug/g	240	56	81	<50	<50	50	8415539
F4 (C34-C50 Hydrocarbons)	ug/g	120	<50	<50	<50	<50	50	8415539
Reached Baseline at C50	ug/g	-	Yes	Yes	Yes	Yes		8415539
Surrogate Recovery (%)								
o-Terphenyl	%	-	105	109	106	103		8415539
4-Bromofluorobenzene	%	-	92	93	93	94		8410792
D10-o-Xylene	%	-	87	89	87	94		8410792
D4-1,2-Dichloroethane	%	-	92	91	93	91		8410792
D8-Toluene	%	-	95	95	96	96		8410792

No Fill	No Exceedance
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Black	Exceeds both criteria/levels

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QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

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

Bureau Veritas ID			UPH495		
Sampling Date			2022/12/14		
COC Number			910869-02-01		
	UNITS	Criteria	QA/QC# 1	RDL	QC Batch
Inorganics					
Moisture	%	-	21	1.0	8410471
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	0.05	<0.050	0.050	8408647
Volatile Organics					
Acetone (2-Propanone)	ug/g	0.5	**1.2**	0.49	8410792
Benzene	ug/g	0.02	<0.0060	0.0060	8410792
Bromodichloromethane	ug/g	0.05	<0.040	0.040	8410792
Bromoform	ug/g	0.05	<0.040	0.040	8410792
Bromomethane	ug/g	0.05	<0.040	0.040	8410792
Carbon Tetrachloride	ug/g	0.05	<0.040	0.040	8410792
Chlorobenzene	ug/g	0.05	<0.040	0.040	8410792
Chloroform	ug/g	0.05	<0.040	0.040	8410792
Dibromochloromethane	ug/g	0.05	<0.040	0.040	8410792
1,2-Dichlorobenzene	ug/g	0.05	<0.040	0.040	8410792
1,3-Dichlorobenzene	ug/g	0.05	<0.040	0.040	8410792
1,4-Dichlorobenzene	ug/g	0.05	<0.040	0.040	8410792
Dichlorodifluoromethane (FREON 12)	ug/g	0.05	<0.040	0.040	8410792
1,1-Dichloroethane	ug/g	0.05	<0.040	0.040	8410792
1,2-Dichloroethane	ug/g	0.05	<0.049	0.049	8410792
1,1-Dichloroethylene	ug/g	0.05	<0.040	0.040	8410792
cis-1,2-Dichloroethylene	ug/g	0.05	<0.040	0.040	8410792
trans-1,2-Dichloroethylene	ug/g	0.05	<0.040	0.040	8410792
1,2-Dichloropropane	ug/g	0.05	<0.040	0.040	8410792
cis-1,3-Dichloropropene	ug/g	0.05	<0.030	0.030	8410792
trans-1,3-Dichloropropene	ug/g	0.05	<0.040	0.040	8410792
Ethylbenzene	ug/g	0.05	<0.010	0.010	8410792
Ethylene Dibromide	ug/g	0.05	<0.040	0.040	8410792
Hexane	ug/g	0.05	<0.040	0.040	8410792
Methylene Chloride(Dichloromethane)	ug/g	0.05	<0.049	0.049	8410792

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

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

Bureau Veritas ID			UPH495		
Sampling Date			2022/12/14		
COC Number			910869-02-01		
	UNITS	Criteria	QA/QC# 1	RDL	QC Batch
Methyl Ethyl Ketone (2-Butanone)	ug/g	0.5	<0.40	0.40	8410792
Methyl Isobutyl Ketone	ug/g	0.5	<0.40	0.40	8410792
Methyl t-butyl ether (MTBE)	ug/g	0.05	<0.040	0.040	8410792
Styrene	ug/g	0.05	<0.040	0.040	8410792
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.040	0.040	8410792
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.040	0.040	8410792
Tetrachloroethylene	ug/g	0.05	<0.040	0.040	8410792
Toluene	ug/g	0.2	<0.020	0.020	8410792
1,1,1-Trichloroethane	ug/g	0.05	<0.040	0.040	8410792
1,1,2-Trichloroethane	ug/g	0.05	<0.040	0.040	8410792
Trichloroethylene	ug/g	0.05	<0.010	0.010	8410792
Trichlorofluoromethane (FREON 11)	ug/g	0.25	<0.040	0.040	8410792
Vinyl Chloride	ug/g	0.02	<0.019	0.019	8410792
p+m-Xylene	ug/g	-	<0.020	0.020	8410792
o-Xylene	ug/g	-	<0.020	0.020	8410792
Total Xylenes	ug/g	0.05	<0.020	0.020	8410792
F1 (C6-C10)	ug/g	25	<10	10	8410792
F1 (C6-C10) - BTEX	ug/g	25	<10	10	8410792
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	10	<10	10	8415539
F3 (C16-C34 Hydrocarbons)	ug/g	240	<50	50	8415539
F4 (C34-C50 Hydrocarbons)	ug/g	120	<50	50	8415539
Reached Baseline at C50	ug/g	-	Yes		8415539
Surrogate Recovery (%)					
o-Terphenyl	%	-	108		8415539
4-Bromofluorobenzene	%	-	93		8410792
D10-o-Xylene	%	-	94		8410792
D4-1,2-Dichloroethane	%	-	92		8410792
D8-Toluene	%	-	95		8410792

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 VOCS BY HS (SOIL)

Bureau Veritas ID			UPH487		
Sampling Date			2022/12/14		
COC Number			910869-02-01		
	UNITS	Criteria	BH111_5.33-5.94	RDL	QC Batch
Inorganics					
Moisture	%	-	14	1.0	8424419
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	0.05	<0.050	0.050	8421100
Volatile Organics					
Acetone (2-Propanone)	ug/g	0.5	<0.49	0.49	8424340
Benzene	ug/g	0.02	<0.0060	0.0060	8424340
Bromodichloromethane	ug/g	0.05	<0.040	0.040	8424340
Bromoform	ug/g	0.05	<0.040	0.040	8424340
Bromomethane	ug/g	0.05	<0.040	0.040	8424340
Carbon Tetrachloride	ug/g	0.05	<0.040	0.040	8424340
Chlorobenzene	ug/g	0.05	<0.040	0.040	8424340
Chloroform	ug/g	0.05	<0.040	0.040	8424340
Dibromochloromethane	ug/g	0.05	<0.040	0.040	8424340
1,2-Dichlorobenzene	ug/g	0.05	<0.040	0.040	8424340
1,3-Dichlorobenzene	ug/g	0.05	<0.040	0.040	8424340
1,4-Dichlorobenzene	ug/g	0.05	<0.040	0.040	8424340
Dichlorodifluoromethane (FREON 12)	ug/g	0.05	<0.040	0.040	8424340
1,1-Dichloroethane	ug/g	0.05	<0.040	0.040	8424340
1,2-Dichloroethane	ug/g	0.05	<0.049	0.049	8424340
1,1-Dichloroethylene	ug/g	0.05	<0.040	0.040	8424340
cis-1,2-Dichloroethylene	ug/g	0.05	<0.040	0.040	8424340
trans-1,2-Dichloroethylene	ug/g	0.05	<0.040	0.040	8424340
1,2-Dichloropropane	ug/g	0.05	<0.040	0.040	8424340
cis-1,3-Dichloropropene	ug/g	0.05	<0.030	0.030	8424340
trans-1,3-Dichloropropene	ug/g	0.05	<0.040	0.040	8424340
Ethylbenzene	ug/g	0.05	<0.010	0.010	8424340
Ethylene Dibromide	ug/g	0.05	<0.040	0.040	8424340
Hexane	ug/g	0.05	<0.040	0.040	8424340
Methylene Chloride(Dichloromethane)	ug/g	0.05	<0.049	0.049	8424340

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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O.REG 153 VOCS BY HS (SOIL)

Bureau Veritas ID			UPH487		
Sampling Date			2022/12/14		
COC Number			910869-02-01		
	UNITS	Criteria	BH111_5.33-5.94	RDL	QC Batch
Methyl Ethyl Ketone (2-Butanone)	ug/g	0.5	<0.40	0.40	8424340
Methyl Isobutyl Ketone	ug/g	0.5	<0.40	0.40	8424340
Methyl t-butyl ether (MTBE)	ug/g	0.05	<0.040	0.040	8424340
Styrene	ug/g	0.05	<0.040	0.040	8424340
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.040	0.040	8424340
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.040	0.040	8424340
Tetrachloroethylene	ug/g	0.05	<0.040	0.040	8424340
Toluene	ug/g	0.2	<0.020	0.020	8424340
1,1,1-Trichloroethane	ug/g	0.05	<0.040	0.040	8424340
1,1,2-Trichloroethane	ug/g	0.05	<0.040	0.040	8424340
Trichloroethylene	ug/g	0.05	<0.010	0.010	8424340
Trichlorofluoromethane (FREON 11)	ug/g	0.25	<0.040	0.040	8424340
Vinyl Chloride	ug/g	0.02	<0.019	0.019	8424340
p+m-Xylene	ug/g	-	<0.020	0.020	8424340
o-Xylene	ug/g	-	<0.020	0.020	8424340
Total Xylenes	ug/g	0.05	<0.020	0.020	8424340
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	-	99		8424340
D10-o-Xylene	%	-	98		8424340
D4-1,2-Dichloroethane	%	-	99		8424340
D8-Toluene	%	-	98		8424340

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID			UPH265			UPH265		UPH266		
Sampling Date			2022/12/13			2022/12/13		2022/12/13		
COC Number			910869-01-01			910869-01-01		910869-01-01		
	UNITS	Criteria	BH113_0-0.61	RDL	QC Batch	BH113_0-0.61 Lab-Dup	QC Batch	BH113_0.76-1.37	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	2.4	0.57		8408645			0.73		8421169
Inorganics										
Conductivity	mS/cm	0.57	**0.71**	0.002	8413194			0.44	0.002	8426036
Available (CaCl2) pH	pH	-	7.73		8416474	7.69	8416474			

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

Bureau Veritas ID			UPH267		UPH268	UPH269		
Sampling Date			2022/12/13		2022/12/13	2022/12/13		
COC Number			910869-01-01		910869-01-01	910869-01-01		
	UNITS	Criteria	BH112_0.76-1.37	QC Batch	BH112_0-0.61	BH109_0-0.61	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	2.4	0.61	8421169	0.76	0.27		8408645
Inorganics								
Conductivity	mS/cm	0.57	0.41	8426036	**0.88**	0.17	0.002	8413194
Available (CaCl2) pH	pH	-			7.71	6.05		8416474

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

TEST SUMMARY

Bureau Veritas ID: UPH262
Sample ID: BH104_0.76-1.37
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8412251	2022/12/19	2022/12/20	Daniel Teclu

Bureau Veritas ID: UPH263
Sample ID: BH104_2.23-2.90
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8408435	N/A	2022/12/20	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8411335	N/A	2022/12/19	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8415539	2022/12/21	2022/12/21	Jeevaraj Jeevaratrnam
Moisture	BAL	8410471	N/A	2022/12/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8413054	2022/12/19	2022/12/20	Mitesh Raj

Bureau Veritas ID: UPH263 Dup
Sample ID: BH104_2.23-2.90
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8411335	N/A	2022/12/19	Lincoln Ramdahin

Bureau Veritas ID: UPH264
Sample ID: BH104_3.81-4.42
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8422559	N/A	2022/12/28	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8422563	2022/12/24	2022/12/29	Emir Danisman
Moisture	BAL	8422076	N/A	2022/12/23	Joe Thomas

Bureau Veritas ID: UPH264 Dup
Sample ID: BH104_3.81-4.42
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8422076	N/A	2022/12/23	Joe Thomas

Bureau Veritas ID: UPH265
Sample ID: BH113_0-0.61
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8408435	N/A	2022/12/20	Automated Statchk
Conductivity	AT	8413194	2022/12/20	2022/12/20	Gurparteek KAUR
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8411335	N/A	2022/12/19	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8415539	2022/12/21	2022/12/21	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	8412251	2022/12/19	2022/12/20	Daniel Teclu

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

TEST SUMMARY

Bureau Veritas ID: UPH265
Sample ID: BH113_0-0.61
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	8410471	N/A	2022/12/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8413054	2022/12/19	2022/12/20	Mitesh Raj
pH CaCl2 EXTRACT	AT	8416474	2022/12/21	2022/12/21	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8408645	N/A	2022/12/21	Automated Statchk

Bureau Veritas ID: UPH265 Dup
Sample ID: BH113_0-0.61
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	8416474	2022/12/21	2022/12/21	Taslima Aktar

Bureau Veritas ID: UPH266
Sample ID: BH113_0.76-1.37
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	8426036	2022/12/29	2022/12/29	Gurparteek KAUR
Sodium Adsorption Ratio (SAR)	CALC/MET	8421169	N/A	2022/12/30	Automated Statchk

Bureau Veritas ID: UPH267
Sample ID: BH112_0.76-1.37
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	8426036	2022/12/29	2022/12/29	Gurparteek KAUR
Sodium Adsorption Ratio (SAR)	CALC/MET	8421169	N/A	2022/12/30	Automated Statchk

Bureau Veritas ID: UPH268
Sample ID: BH112_0-0.61
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8408435	N/A	2022/12/20	Automated Statchk
Conductivity	AT	8413194	2022/12/20	2022/12/20	Gurparteek KAUR
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8411335	N/A	2022/12/19	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8415539	2022/12/21	2022/12/21	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	8412251	2022/12/19	2022/12/20	Daniel Teclu
Moisture	BAL	8410471	N/A	2022/12/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8413054	2022/12/19	2022/12/20	Mitesh Raj
pH CaCl2 EXTRACT	AT	8416474	2022/12/21	2022/12/21	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8408645	N/A	2022/12/21	Automated Statchk

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

TEST SUMMARY

Bureau Veritas ID: UPH269
Sample ID: BH109_0-0.61
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8408435	N/A	2022/12/20	Automated Statchk
Conductivity	AT	8413194	2022/12/20	2022/12/20	Gurparteek KAUR
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8411335	N/A	2022/12/19	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8415539	2022/12/21	2022/12/21	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	8412251	2022/12/19	2022/12/20	Daniel Teclu
Moisture	BAL	8410471	N/A	2022/12/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8413054	2022/12/19	2022/12/20	Mitesh Raj
pH CaCl2 EXTRACT	AT	8416474	2022/12/21	2022/12/21	Taslima Aktar
Sodium Adsorption Ratio (SAR)	CALC/MET	8408645	N/A	2022/12/21	Automated Statchk

Bureau Veritas ID: UPH271
Sample ID: BH111_0.76-1.37
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8412251	2022/12/19	2022/12/20	Daniel Teclu

Bureau Veritas ID: UPH486
Sample ID: BH111_2.29-2.90
Matrix: Soil

Collected: 2022/12/13
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8408435	N/A	2022/12/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	8408647	N/A	2022/12/21	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8415539	2022/12/21	2022/12/21	Jeevaraj Jeevaratrnam
Moisture	BAL	8410471	N/A	2022/12/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8413054	2022/12/19	2022/12/20	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8410792	N/A	2022/12/20	Jett Wu

Bureau Veritas ID: UPH487
Sample ID: BH111_5.33-5.94
Matrix: Soil

Collected: 2022/12/14
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8421100	N/A	2022/12/29	Automated Statchk
Moisture	BAL	8424419	N/A	2022/12/28	Shivani Desai
Volatile Organic Compounds in Soil	GC/MS	8424340	N/A	2022/12/29	Narayan Ghimire

Bureau Veritas ID: UPH488
Sample ID: BH108_2.29-2.90
Matrix: Soil

Collected: 2022/12/14
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8408435	N/A	2022/12/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	8408647	N/A	2022/12/21	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8415539	2022/12/21	2022/12/21	Jeevaraj Jeevaratrnam

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

TEST SUMMARY

Bureau Veritas ID: UPH488
Sample ID: BH108_2.29-2.90
Matrix: Soil

Collected: 2022/12/14
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8412251	2022/12/19	2022/12/20	Daniel Teclu
Moisture	BAL	8410471	N/A	2022/12/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8413054	2022/12/19	2022/12/20	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8410792	N/A	2022/12/20	Jett Wu

Bureau Veritas ID: UPH489
Sample ID: BH108_6.70-7.32
Matrix: Soil

Collected: 2022/12/14
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8422559	N/A	2022/12/28	Haibin Wu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8422986	2022/12/27	2022/12/28	Jeevaraj Jeevaratrnam
Moisture	BAL	8425130	N/A	2022/12/28	Shivani Desai

Bureau Veritas ID: UPH490
Sample ID: BH107_0-0.61
Matrix: Soil

Collected: 2022/12/14
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8408435	N/A	2022/12/22	Automated Statchk
1,3-Dichloropropene Sum	CALC	8408647	N/A	2022/12/21	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8415539	2022/12/21	2022/12/21	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	8412251	2022/12/19	2022/12/20	Daniel Teclu
Moisture	BAL	8410471	N/A	2022/12/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8415404	2022/12/20	2022/12/22	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8410792	N/A	2022/12/20	Jett Wu

Bureau Veritas ID: UPH492
Sample ID: BH107_2.24-2.90
Matrix: Soil

Collected: 2022/12/14
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8408435	N/A	2022/12/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	8408647	N/A	2022/12/21	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8415539	2022/12/21	2022/12/21	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	8412251	2022/12/19	2022/12/20	Daniel Teclu
Moisture	BAL	8410471	N/A	2022/12/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8413054	2022/12/19	2022/12/20	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8410792	N/A	2022/12/20	Jett Wu

Bureau Veritas ID: UPH493
Sample ID: BH103_1.52-2.13
Matrix: Soil

Collected: 2022/12/14
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8412251	2022/12/19	2022/12/20	Daniel Teclu

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

TEST SUMMARY

Bureau Veritas ID: UPH494
Sample ID: BH103_6.10-6.71
Matrix: Soil

Collected: 2022/12/14
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8408435	N/A	2022/12/20	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8411335	N/A	2022/12/19	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8415539	2022/12/21	2022/12/21	Jeevaraj Jeevaratrnam
Moisture	BAL	8410471	N/A	2022/12/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8413054	2022/12/19	2022/12/20	Mitesh Raj

Bureau Veritas ID: UPH495
Sample ID: QA/QC# 1
Matrix: Soil

Collected: 2022/12/14
Shipped:
Received: 2022/12/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8408435	N/A	2022/12/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	8408647	N/A	2022/12/21	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8415539	2022/12/21	2022/12/21	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	8412251	2022/12/19	2022/12/20	Daniel Teclu
Moisture	BAL	8410471	N/A	2022/12/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8413054	2022/12/19	2022/12/20	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8410792	N/A	2022/12/20	Jett Wu

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.0°C

F1 BTEX analysis : Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency

Revised Report (2022/12/30): Additional analysis has been included in this report as per client request.

Sample UPH263 [BH104_2.23-2.90] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample UPH265 [BH113_0-0.61] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample UPH268 [BH112_0-0.61] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample UPH269 [BH109_0-0.61] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample UPH487 [BH111_5.33-5.94] : VOC Analysis: The sample extract was transferred from the soil before 14 days. Analysis was completed within the 40 day specified hold time.

Sample UPH494 [BH103_6.10-6.71] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Results relate only to the items tested.

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

QUALITY ASSURANCE REPORT

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8410792	4-Bromofluorobenzene	2022/12/20	109	60 - 140	110	60 - 140	93	%		
8410792	D10-o-Xylene	2022/12/20	98	60 - 130	102	60 - 130	90	%		
8410792	D4-1,2-Dichloroethane	2022/12/20	91	60 - 140	92	60 - 140	92	%		
8410792	D8-Toluene	2022/12/20	101	60 - 140	101	60 - 140	95	%		
8411335	1,4-Difluorobenzene	2022/12/19	99	60 - 140	101	60 - 140	100	%		
8411335	4-Bromofluorobenzene	2022/12/19	99	60 - 140	99	60 - 140	98	%		
8411335	D10-o-Xylene	2022/12/19	91	60 - 140	97	60 - 140	95	%		
8411335	D4-1,2-Dichloroethane	2022/12/19	100	60 - 140	98	60 - 140	102	%		
8413054	D10-Anthracene	2022/12/20	101	50 - 130	104	50 - 130	100	%		
8413054	D14-Terphenyl (FS)	2022/12/20	88	50 - 130	93	50 - 130	92	%		
8413054	D8-Acenaphthylene	2022/12/20	96	50 - 130	101	50 - 130	95	%		
8415404	D10-Anthracene	2022/12/22	98	50 - 130	99	50 - 130	102	%		
8415404	D14-Terphenyl (FS)	2022/12/22	106	50 - 130	99	50 - 130	100	%		
8415404	D8-Acenaphthylene	2022/12/22	97	50 - 130	93	50 - 130	94	%		
8415539	o-Terphenyl	2022/12/21	107	60 - 130	97	60 - 130	102	%		
8422559	1,4-Difluorobenzene	2022/12/28	101	60 - 140	101	60 - 140	104	%		
8422559	4-Bromofluorobenzene	2022/12/28	98	60 - 140	100	60 - 140	99	%		
8422559	D10-o-Xylene	2022/12/28	125	60 - 140	103	60 - 140	111	%		
8422559	D4-1,2-Dichloroethane	2022/12/28	94	60 - 140	94	60 - 140	92	%		
8422563	o-Terphenyl	2022/12/29	84	60 - 130	79	60 - 130	89	%		
8422986	o-Terphenyl	2022/12/28	108	60 - 130	109	60 - 130	106	%		
8424340	4-Bromofluorobenzene	2022/12/29	98	60 - 140	99	60 - 140	99	%		
8424340	D10-o-Xylene	2022/12/29	102	60 - 130	97	60 - 130	97	%		
8424340	D4-1,2-Dichloroethane	2022/12/29	99	60 - 140	102	60 - 140	103	%		
8424340	D8-Toluene	2022/12/29	100	60 - 140	100	60 - 140	97	%		
8410471	Moisture	2022/12/17							8.0	20
8410792	1,1,1,2-Tetrachloroethane	2022/12/20	97	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
8410792	1,1,1-Trichloroethane	2022/12/20	96	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
8410792	1,1,2,2-Tetrachloroethane	2022/12/20	89	60 - 140	90	60 - 130	<0.040	ug/g	NC	50
8410792	1,1,2-Trichloroethane	2022/12/20	89	60 - 140	88	60 - 130	<0.040	ug/g	NC	50
8410792	1,1-Dichloroethane	2022/12/20	87	60 - 140	86	60 - 130	<0.040	ug/g	NC	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8410792	1,1-Dichloroethylene	2022/12/20	90	60 - 140	88	60 - 130	<0.040	ug/g	NC	50
8410792	1,2-Dichlorobenzene	2022/12/20	99	60 - 140	96	60 - 130	<0.040	ug/g	NC	50
8410792	1,2-Dichloroethane	2022/12/20	85	60 - 140	85	60 - 130	<0.049	ug/g	NC	50
8410792	1,2-Dichloropropane	2022/12/20	91	60 - 140	90	60 - 130	<0.040	ug/g	NC	50
8410792	1,3-Dichlorobenzene	2022/12/20	104	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
8410792	1,4-Dichlorobenzene	2022/12/20	116	60 - 140	111	60 - 130	<0.040	ug/g	NC	50
8410792	Acetone (2-Propanone)	2022/12/20	88	60 - 140	87	60 - 140	<0.49	ug/g	NC	50
8410792	Benzene	2022/12/20	88	60 - 140	86	60 - 130	<0.0060	ug/g	NC	50
8410792	Bromodichloromethane	2022/12/20	93	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
8410792	Bromoform	2022/12/20	95	60 - 140	96	60 - 130	<0.040	ug/g	NC	50
8410792	Bromomethane	2022/12/20	92	60 - 140	90	60 - 140	<0.040	ug/g	NC	50
8410792	Carbon Tetrachloride	2022/12/20	95	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
8410792	Chlorobenzene	2022/12/20	99	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
8410792	Chloroform	2022/12/20	92	60 - 140	90	60 - 130	<0.040	ug/g	NC	50
8410792	cis-1,2-Dichloroethylene	2022/12/20	97	60 - 140	96	60 - 130	<0.040	ug/g	NC	50
8410792	cis-1,3-Dichloropropene	2022/12/20	94	60 - 140	93	60 - 130	<0.030	ug/g	NC	50
8410792	Dibromochloromethane	2022/12/20	93	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
8410792	Dichlorodifluoromethane (FREON 12)	2022/12/20	92	60 - 140	95	60 - 140	<0.040	ug/g	NC	50
8410792	Ethylbenzene	2022/12/20	93	60 - 140	90	60 - 130	<0.010	ug/g	NC	50
8410792	Ethylene Dibromide	2022/12/20	92	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
8410792	F1 (C6-C10) - BTEX	2022/12/20					<10	ug/g	NC	30
8410792	F1 (C6-C10)	2022/12/20	86	60 - 140	90	80 - 120	<10	ug/g	NC	30
8410792	Hexane	2022/12/20	87	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
8410792	Methyl Ethyl Ketone (2-Butanone)	2022/12/20	94	60 - 140	96	60 - 140	<0.40	ug/g	NC	50
8410792	Methyl Isobutyl Ketone	2022/12/20	75	60 - 140	77	60 - 130	<0.40	ug/g	NC	50
8410792	Methyl t-butyl ether (MTBE)	2022/12/20	90	60 - 140	90	60 - 130	<0.040	ug/g	NC	50
8410792	Methylene Chloride(Dichloromethane)	2022/12/20	92	60 - 140	91	60 - 130	<0.049	ug/g	NC	50
8410792	o-Xylene	2022/12/20	94	60 - 140	92	60 - 130	<0.020	ug/g	NC	50
8410792	p+m-Xylene	2022/12/20	98	60 - 140	96	60 - 130	<0.020	ug/g	NC	50
8410792	Styrene	2022/12/20	87	60 - 140	86	60 - 130	<0.040	ug/g	NC	50
8410792	Tetrachloroethylene	2022/12/20	93	60 - 140	90	60 - 130	<0.040	ug/g	NC	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8410792	Toluene	2022/12/20	92	60 - 140	90	60 - 130	<0.020	ug/g	NC	50
8410792	Total Xylenes	2022/12/20					<0.020	ug/g	NC	50
8410792	trans-1,2-Dichloroethylene	2022/12/20	95	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
8410792	trans-1,3-Dichloropropene	2022/12/20	96	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
8410792	Trichloroethylene	2022/12/20	104	60 - 140	102	60 - 130	<0.010	ug/g	NC	50
8410792	Trichlorofluoromethane (FREON 11)	2022/12/20	92	60 - 140	89	60 - 130	<0.040	ug/g	NC	50
8410792	Vinyl Chloride	2022/12/20	83	60 - 140	81	60 - 130	<0.019	ug/g	NC	50
8411335	Benzene	2022/12/19	78	50 - 140	90	50 - 140	<0.020	ug/g	NC	50
8411335	Ethylbenzene	2022/12/19	92	50 - 140	100	50 - 140	<0.020	ug/g	NC	50
8411335	F1 (C6-C10) - BTEX	2022/12/19					<10	ug/g	NC	30
8411335	F1 (C6-C10)	2022/12/19	91	60 - 140	99	80 - 120	<10	ug/g	NC	30
8411335	o-Xylene	2022/12/19	91	50 - 140	99	50 - 140	<0.020	ug/g	NC	50
8411335	p+m-Xylene	2022/12/19	88	50 - 140	96	50 - 140	<0.040	ug/g	NC	50
8411335	Toluene	2022/12/19	80	50 - 140	89	50 - 140	<0.020	ug/g	NC	50
8411335	Total Xylenes	2022/12/19					<0.040	ug/g	NC	50
8412251	Acid Extractable Antimony (Sb)	2022/12/20	100	75 - 125	100	80 - 120	<0.20	ug/g	NC	30
8412251	Acid Extractable Arsenic (As)	2022/12/20	101	75 - 125	102	80 - 120	<1.0	ug/g	12	30
8412251	Acid Extractable Barium (Ba)	2022/12/20	NC	75 - 125	96	80 - 120	<0.50	ug/g	2.3	30
8412251	Acid Extractable Beryllium (Be)	2022/12/20	101	75 - 125	101	80 - 120	<0.20	ug/g	1.1	30
8412251	Acid Extractable Boron (B)	2022/12/20	99	75 - 125	100	80 - 120	<5.0	ug/g	5.1	30
8412251	Acid Extractable Cadmium (Cd)	2022/12/20	99	75 - 125	101	80 - 120	<0.10	ug/g	NC	30
8412251	Acid Extractable Chromium (Cr)	2022/12/20	102	75 - 125	100	80 - 120	<1.0	ug/g	6.2	30
8412251	Acid Extractable Cobalt (Co)	2022/12/20	98	75 - 125	103	80 - 120	<0.10	ug/g	5.3	30
8412251	Acid Extractable Copper (Cu)	2022/12/20	100	75 - 125	104	80 - 120	<0.50	ug/g	13	30
8412251	Acid Extractable Lead (Pb)	2022/12/20	97	75 - 125	102	80 - 120	<1.0	ug/g	8.6	30
8412251	Acid Extractable Molybdenum (Mo)	2022/12/20	102	75 - 125	100	80 - 120	<0.50	ug/g	NC	30
8412251	Acid Extractable Nickel (Ni)	2022/12/20	99	75 - 125	103	80 - 120	<0.50	ug/g	7.7	30
8412251	Acid Extractable Selenium (Se)	2022/12/20	104	75 - 125	103	80 - 120	<0.50	ug/g	NC	30
8412251	Acid Extractable Silver (Ag)	2022/12/20	100	75 - 125	103	80 - 120	<0.20	ug/g	NC	30
8412251	Acid Extractable Thallium (Tl)	2022/12/20	102	75 - 125	105	80 - 120	<0.050	ug/g	4.2	30
8412251	Acid Extractable Uranium (U)	2022/12/20	101	75 - 125	102	80 - 120	<0.050	ug/g	2.9	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8412251	Acid Extractable Vanadium (V)	2022/12/20	94	75 - 125	100	80 - 120	<5.0	ug/g	7.0	30
8412251	Acid Extractable Zinc (Zn)	2022/12/20	NC	75 - 125	100	80 - 120	<5.0	ug/g	20	30
8413054	1-Methylnaphthalene	2022/12/20	105	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
8413054	2-Methylnaphthalene	2022/12/20	97	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
8413054	Acenaphthene	2022/12/20	102	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
8413054	Acenaphthylene	2022/12/20	98	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
8413054	Anthracene	2022/12/20	104	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
8413054	Benzo(a)anthracene	2022/12/20	102	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
8413054	Benzo(a)pyrene	2022/12/20	100	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
8413054	Benzo(b/j)fluoranthene	2022/12/20	102	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
8413054	Benzo(g,h,i)perylene	2022/12/20	105	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
8413054	Benzo(k)fluoranthene	2022/12/20	100	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
8413054	Chrysene	2022/12/20	103	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
8413054	Dibenzo(a,h)anthracene	2022/12/20	95	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
8413054	Fluoranthene	2022/12/20	98	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
8413054	Fluorene	2022/12/20	100	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
8413054	Indeno(1,2,3-cd)pyrene	2022/12/20	104	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
8413054	Naphthalene	2022/12/20	96	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
8413054	Phenanthrene	2022/12/20	101	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
8413054	Pyrene	2022/12/20	97	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
8413194	Conductivity	2022/12/20			104	90 - 110	<0.002	mS/cm	0.88	10
8415404	1-Methylnaphthalene	2022/12/22	95	50 - 130	102	50 - 130	<0.0050	ug/g	153 (1)	40
8415404	2-Methylnaphthalene	2022/12/22	86	50 - 130	94	50 - 130	<0.0050	ug/g	169 (1)	40
8415404	Acenaphthene	2022/12/22	88	50 - 130	96	50 - 130	<0.0050	ug/g	172 (1)	40
8415404	Acenaphthylene	2022/12/22	96	50 - 130	94	50 - 130	<0.0050	ug/g	10	40
8415404	Anthracene	2022/12/22	92	50 - 130	103	50 - 130	<0.0050	ug/g	178 (1)	40
8415404	Benzo(a)anthracene	2022/12/22	120	50 - 130	101	50 - 130	<0.0050	ug/g	185 (1)	40
8415404	Benzo(a)pyrene	2022/12/22	116	50 - 130	95	50 - 130	<0.0050	ug/g	180 (1)	40
8415404	Benzo(b/j)fluoranthene	2022/12/22	98	50 - 130	97	50 - 130	<0.0050	ug/g	184 (1)	40
8415404	Benzo(g,h,i)perylene	2022/12/22	88	50 - 130	92	50 - 130	<0.0050	ug/g	163 (1)	40
8415404	Benzo(k)fluoranthene	2022/12/22	106	50 - 130	101	50 - 130	<0.0050	ug/g	153 (1)	40

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8415404	Chrysene	2022/12/22	114	50 - 130	103	50 - 130	<0.0050	ug/g	178 (1)	40
8415404	Dibenzo(a,h)anthracene	2022/12/22	95	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
8415404	Fluoranthene	2022/12/22	NC	50 - 130	104	50 - 130	<0.0050	ug/g	194 (1)	40
8415404	Fluorene	2022/12/22	91	50 - 130	99	50 - 130	<0.0050	ug/g	179 (1)	40
8415404	Indeno(1,2,3-cd)pyrene	2022/12/22	88	50 - 130	91	50 - 130	<0.0050	ug/g	161 (1)	40
8415404	Naphthalene	2022/12/22	58	50 - 130	94	50 - 130	<0.0050	ug/g	172 (1)	40
8415404	Phenanthrene	2022/12/22	94	50 - 130	101	50 - 130	<0.0050	ug/g	180 (1)	40
8415404	Pyrene	2022/12/22	NC	50 - 130	108	50 - 130	<0.0050	ug/g	193 (1)	40
8415539	F2 (C10-C16 Hydrocarbons)	2022/12/21	109	60 - 130	98	80 - 120	<10	ug/g	NC	30
8415539	F3 (C16-C34 Hydrocarbons)	2022/12/21	112	60 - 130	102	80 - 120	<50	ug/g	NC	30
8415539	F4 (C34-C50 Hydrocarbons)	2022/12/21	115	60 - 130	103	80 - 120	<50	ug/g	NC	30
8416474	Available (CaCl2) pH	2022/12/21			100	97 - 103			0.51	N/A
8422076	Moisture	2022/12/23							4.2	20
8422559	Benzene	2022/12/28	97	50 - 140	90	50 - 140	<0.020	ug/g	NC	50
8422559	Ethylbenzene	2022/12/28	107	50 - 140	98	50 - 140	<0.020	ug/g	NC	50
8422559	F1 (C6-C10) - BTEX	2022/12/28					<10	ug/g	NC	30
8422559	F1 (C6-C10)	2022/12/28	110	60 - 140	98	80 - 120	<10	ug/g	NC	30
8422559	o-Xylene	2022/12/28	106	50 - 140	95	50 - 140	<0.020	ug/g	NC	50
8422559	p+m-Xylene	2022/12/28	103	50 - 140	94	50 - 140	<0.040	ug/g	NC	50
8422559	Toluene	2022/12/28	96	50 - 140	88	50 - 140	<0.020	ug/g	NC	50
8422559	Total Xylenes	2022/12/28					<0.040	ug/g	NC	50
8422563	F2 (C10-C16 Hydrocarbons)	2022/12/29	96	60 - 130	87	80 - 120	<10	ug/g	NC	30
8422563	F3 (C16-C34 Hydrocarbons)	2022/12/29	96	60 - 130	87	80 - 120	<50	ug/g	NC	30
8422563	F4 (C34-C50 Hydrocarbons)	2022/12/29	97	60 - 130	87	80 - 120	<50	ug/g	NC	30
8422986	F2 (C10-C16 Hydrocarbons)	2022/12/28	111	60 - 130	112	80 - 120	<10	ug/g	NC	30
8422986	F3 (C16-C34 Hydrocarbons)	2022/12/28	114	60 - 130	116	80 - 120	<50	ug/g	NC	30
8422986	F4 (C34-C50 Hydrocarbons)	2022/12/28	114	60 - 130	116	80 - 120	<50	ug/g	NC	30
8424340	1,1,1,2-Tetrachloroethane	2022/12/29	95	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
8424340	1,1,1-Trichloroethane	2022/12/29	98	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
8424340	1,1,2,2-Tetrachloroethane	2022/12/29	90	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
8424340	1,1,2-Trichloroethane	2022/12/29	94	60 - 140	95	60 - 130	<0.040	ug/g	NC	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8424340	1,1-Dichloroethane	2022/12/29	94	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
8424340	1,1-Dichloroethylene	2022/12/29	97	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
8424340	1,2-Dichlorobenzene	2022/12/29	94	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
8424340	1,2-Dichloroethane	2022/12/29	93	60 - 140	92	60 - 130	<0.049	ug/g	NC	50
8424340	1,2-Dichloropropane	2022/12/29	96	60 - 140	96	60 - 130	<0.040	ug/g	NC	50
8424340	1,3-Dichlorobenzene	2022/12/29	96	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
8424340	1,4-Dichlorobenzene	2022/12/29	110	60 - 140	106	60 - 130	<0.040	ug/g	NC	50
8424340	Acetone (2-Propanone)	2022/12/29	110	60 - 140	109	60 - 140	<0.49	ug/g	2.1	50
8424340	Benzene	2022/12/29	90	60 - 140	89	60 - 130	<0.0060	ug/g	NC	50
8424340	Bromodichloromethane	2022/12/29	95	60 - 140	96	60 - 130	<0.040	ug/g	NC	50
8424340	Bromoform	2022/12/29	93	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
8424340	Bromomethane	2022/12/29	97	60 - 140	96	60 - 140	<0.040	ug/g	NC	50
8424340	Carbon Tetrachloride	2022/12/29	99	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
8424340	Chlorobenzene	2022/12/29	94	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
8424340	Chloroform	2022/12/29	94	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
8424340	cis-1,2-Dichloroethylene	2022/12/29	95	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
8424340	cis-1,3-Dichloropropene	2022/12/29	97	60 - 140	97	60 - 130	<0.030	ug/g	NC	50
8424340	Dibromochloromethane	2022/12/29	91	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
8424340	Dichlorodifluoromethane (FREON 12)	2022/12/29	109	60 - 140	107	60 - 140	<0.040	ug/g	NC	50
8424340	Ethylbenzene	2022/12/29	89	60 - 140	86	60 - 130	<0.010	ug/g	NC	50
8424340	Ethylene Dibromide	2022/12/29	90	60 - 140	91	60 - 130	<0.040	ug/g	NC	50
8424340	Hexane	2022/12/29	99	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
8424340	Methyl Ethyl Ketone (2-Butanone)	2022/12/29	108	60 - 140	112	60 - 140	<0.40	ug/g	NC	50
8424340	Methyl Isobutyl Ketone	2022/12/29	97	60 - 140	103	60 - 130	<0.40	ug/g	NC	50
8424340	Methyl t-butyl ether (MTBE)	2022/12/29	91	60 - 140	91	60 - 130	<0.040	ug/g	NC	50
8424340	Methylene Chloride(Dichloromethane)	2022/12/29	96	60 - 140	94	60 - 130	<0.049	ug/g	1.0	50
8424340	o-Xylene	2022/12/29	91	60 - 140	90	60 - 130	<0.020	ug/g	NC	50
8424340	p+m-Xylene	2022/12/29	95	60 - 140	92	60 - 130	<0.020	ug/g	NC	50
8424340	Styrene	2022/12/29	99	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
8424340	Tetrachloroethylene	2022/12/29	89	60 - 140	85	60 - 130	<0.040	ug/g	NC	50
8424340	Toluene	2022/12/29	92	60 - 140	90	60 - 130	<0.020	ug/g	NC	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8424340	Total Xylenes	2022/12/29					<0.020	ug/g	NC	50
8424340	trans-1,2-Dichloroethylene	2022/12/29	97	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
8424340	trans-1,3-Dichloropropene	2022/12/29	107	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
8424340	Trichloroethylene	2022/12/29	100	60 - 140	98	60 - 130	<0.010	ug/g	NC	50
8424340	Trichlorofluoromethane (FREON 11)	2022/12/29	96	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
8424340	Vinyl Chloride	2022/12/29	92	60 - 140	89	60 - 130	<0.019	ug/g	NC	50
8424419	Moisture	2022/12/28							1.1	20
8425130	Moisture	2022/12/28							1.0	20
8426036	Conductivity	2022/12/29			107	90 - 110	<0.002	mS/cm	0.18	10

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.

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).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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

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

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

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.

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15-Dec-22 12:24
Gemarie Balatico
C2AI894
AJH ENV-1117

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#17950 Cambium Environmental Inc	Company Name:		Quotation #:	C21984
Attention:	ACCOUNTS PAYABLE	Attention:	Sharif Nawyaz ; Natalie.Wright @cambium-inc.com	P.O. #:	
Address:	194 Sophia Street PO Box 325 Peterborough ON K9H 1E5	Address:		Project:	14455-002
Tel:	(705) 742-7900 Fax: (705) 742-7907	Tel:	(866) 217-7900 Fax:	Project Name:	
Email:	accounting@cambium-inc.com	Email:	Sharif.Nawyaz@cambium-inc.com, Natalie.Wright	Site #:	
				Sampled By:	Logan Wintemute

Quality:
Bottle Order #: 910869
COC #: C#910869-01-01
Project Manager: Gemarie Balatico

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)? Y

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

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	O.Reg153 PHCs, BTEX/F1-F4 (Soil)	O.Reg153 PAHs (Soil)	O.Reg 153 ICPMS Metals (Soil); Sodium Adsorption Ration; Conductivity	O.Reg153 PCBs (Soil)	O.Reg153 VOCs by HS & F1-F4 (Soil)	O. Reg 153 ICP Metals	pH				# of Bottles	Comments
1		BH104_0.76-1.37	22/12/13		SOIL						X					1	
2		BH104_2.23-2.90	22/12/13		SOIL	X	X									3	
3		BH104_3.81-4.42	22/12/13		SOIL	X	X				X					4	HOLD
4		BH113_0-0.61	22/12/13		SOIL	X	X	X				X				4	
5		BH113_0.76-1.37	22/12/13		SOIL	X	X	X				X				4	HOLD
6		BH112_0.76-1.37	22/12/13		SOIL	X	X	X				X				4	HOLD
7		BH112_0-0.61	22/12/13		SOIL	X	X	X				X				4	
8		BH109_0-0.61	22/12/13		SOIL	X	X	X				X				4	
9		BH109_0.76-1.37	22/12/13		SOIL	X	X	X				X				4	HOLD
10		BH111_0.76-1.37	22/12/13		SOIL						X					1	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Logan Wintemute	22/12/14					

Laboratory Use Only
Time Sensitive | Temperature (°C) on Recei: 7.1 3.4 | Custody Seal Present ✓ | Intact ✓ | Yes | No

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

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

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

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

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#17950 Cambium Environmental Inc	Company Name:		Quotation #:	C21984	Bureau Veritas Job #:	Bottle Order #:
Attention:	ACCOUNTS PAYABLE	Attention:	Sharif Nawyaz, Natalie Wright @cambium-inc.com	P.O. #:			910869
Address:	194 Sophia Street PO Box 325 Peterborough ON K9H 1E5	Address:		Project:	14455-002	COC #:	Project Manager:
Tel:	(705) 742-7900 Fax: (705) 742-7907	Tel:	(866) 217-7900 Fax:	Project Name:		C#910869-02-01	Gemarie Balatico
Email:	accounting@cambium-inc.com	Email:	Sharif.Nawyaz@cambium-inc.com; Natalie.Wright@	Site #:			
				Sampled By:	Logan Wintemute		

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)? Y

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	O. Reg 153 PHCs, BTEX/F1-F4 (Soil)	O. Reg 153 PAHs (Soil)	O. Reg 153 ICPMS Metals (Soil), Sodium Adsorption Ration, Conductivity	O. Reg 153 PCBs (Soil)	O. Reg 153 VOCs by HS & F1-F4 (Soil)	O. Reg 153 ICP Metals					# of Bottles	Comments
1		BH111_2.29-2.90	22/12/13		SOIL			X			X						4	
2		BH111_5.33-5.94	22/12/14		SOIL			X			X	X					5	HOLD
3		BH108_2.29-2.90	22/12/14		SOIL			X			X	X					5	
4		BH108_6.70-7.32	22/12/14		SOIL			X			X	X					5	HOLD
5		BH107_0-0.61	22/12/14		SOIL			X			X	X					5	
6		BH107_3.05-3.66	22/12/14		SOIL			X			X	X					5	HOLD
7		BH107_2.24-2.90	22/12/14					X			X	X					5	
8		BH103_1.52-2.13	22/12/14									X					1	
9		BH103_6.10-6.71	22/12/14				X	X									3	
10		QA/QC #1	22/12/14					X			X	X					5	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
Logan Untemute	22/12/14				1244			17.3 | 4	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

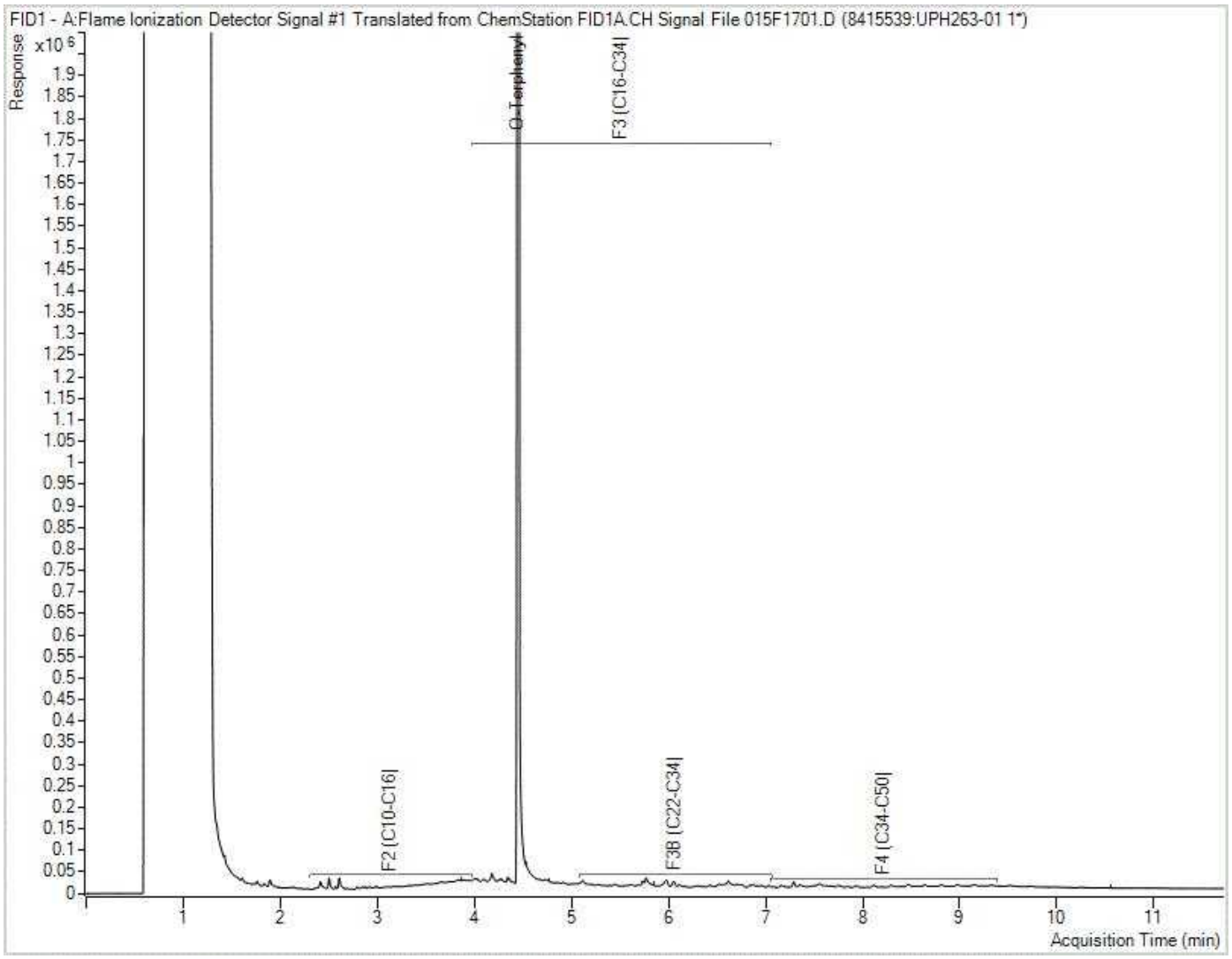
Bureau Veritas Canada (2019) Inc.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH263

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH104_2.23-2.90

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



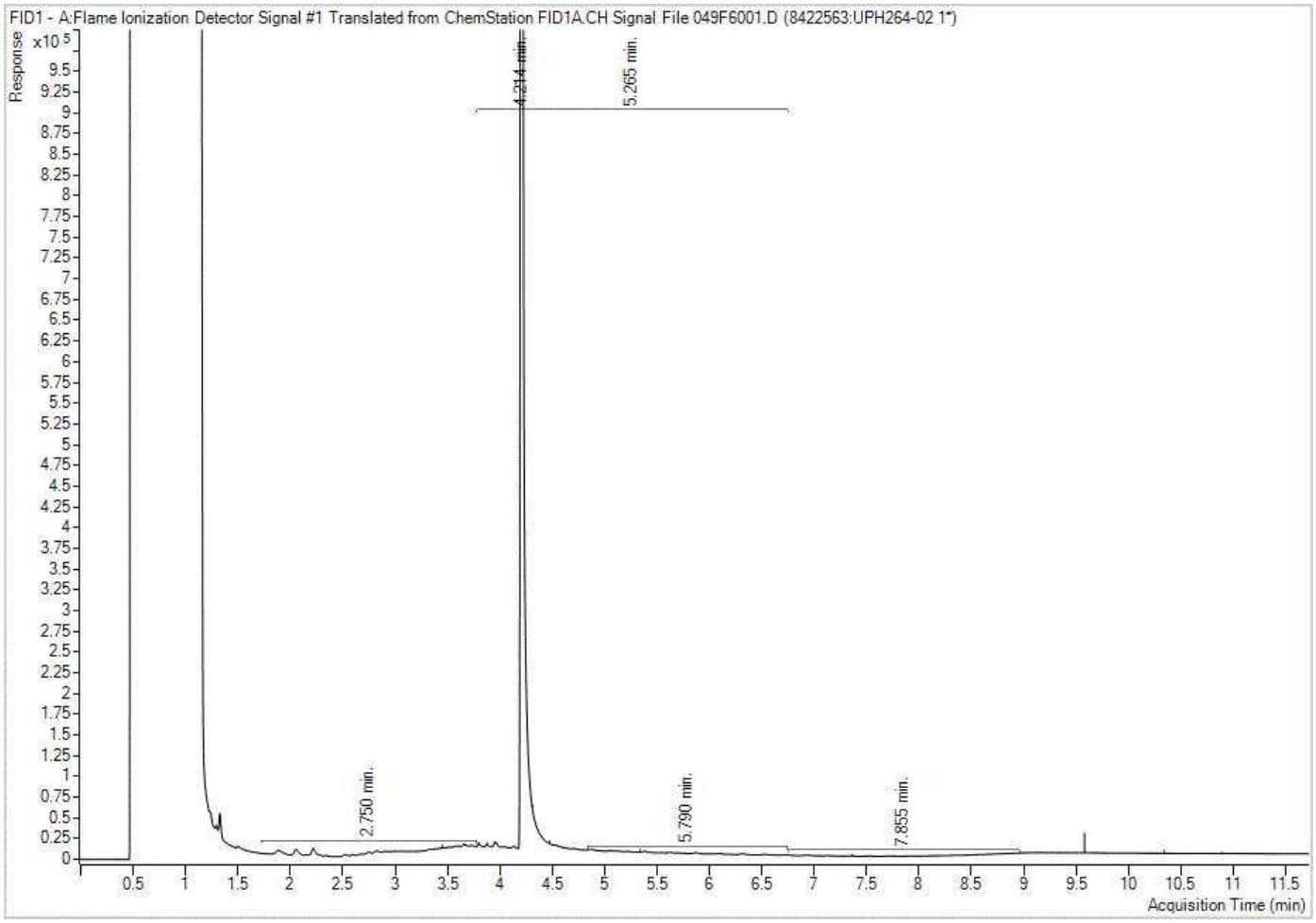
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH264

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH104_3.81-4.42

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



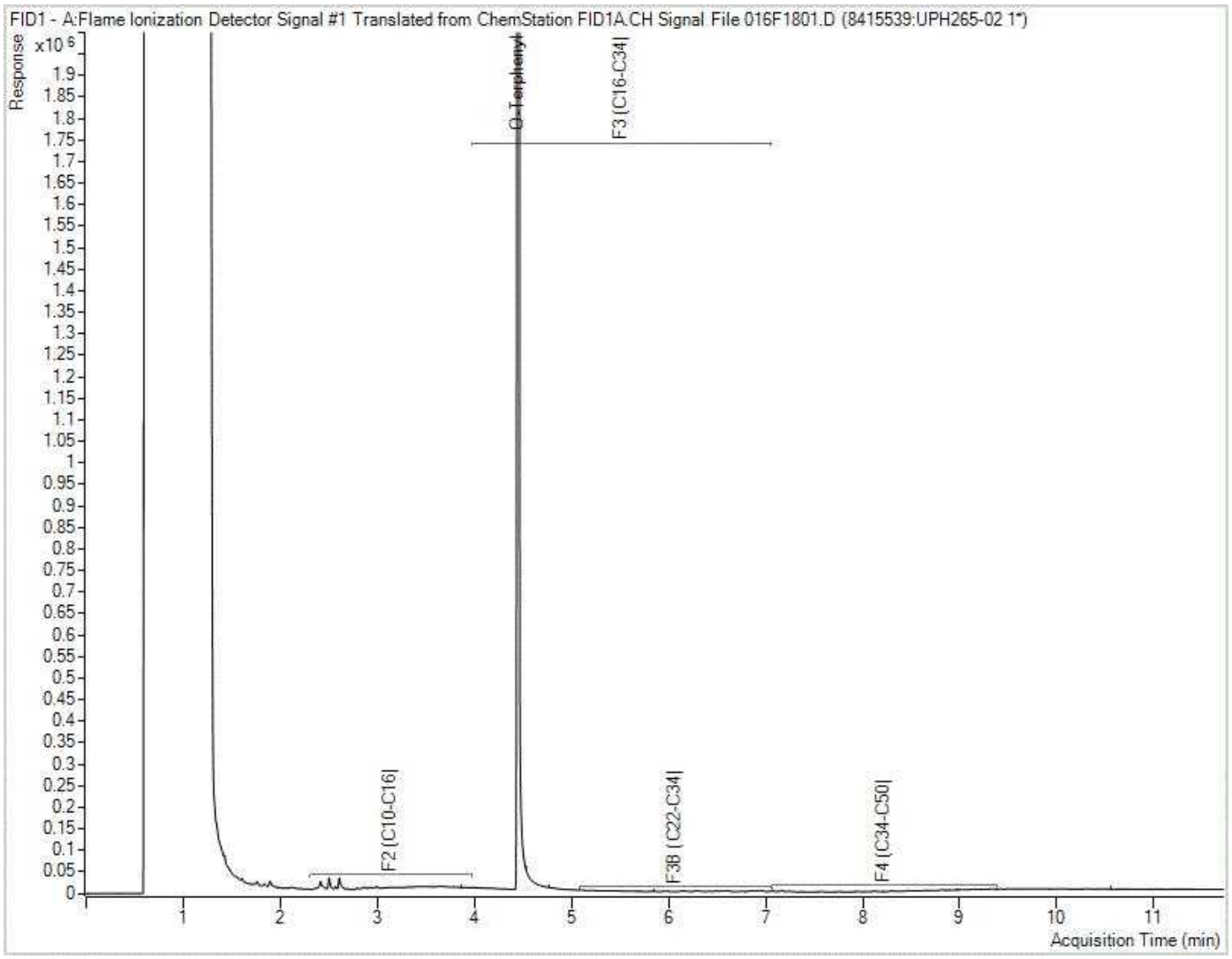
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH265

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH113_0-0.61

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



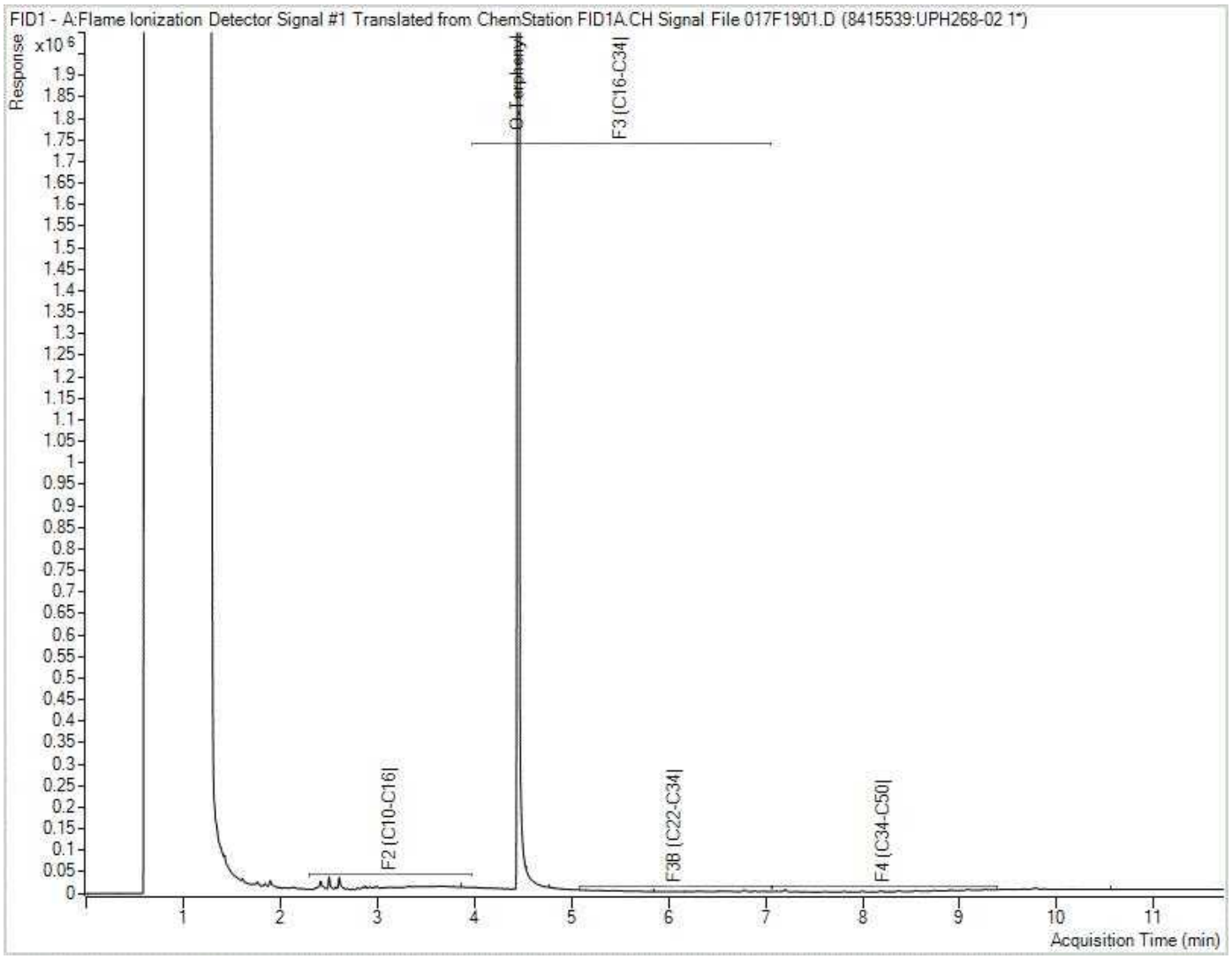
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH268

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH112_0-0.61

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



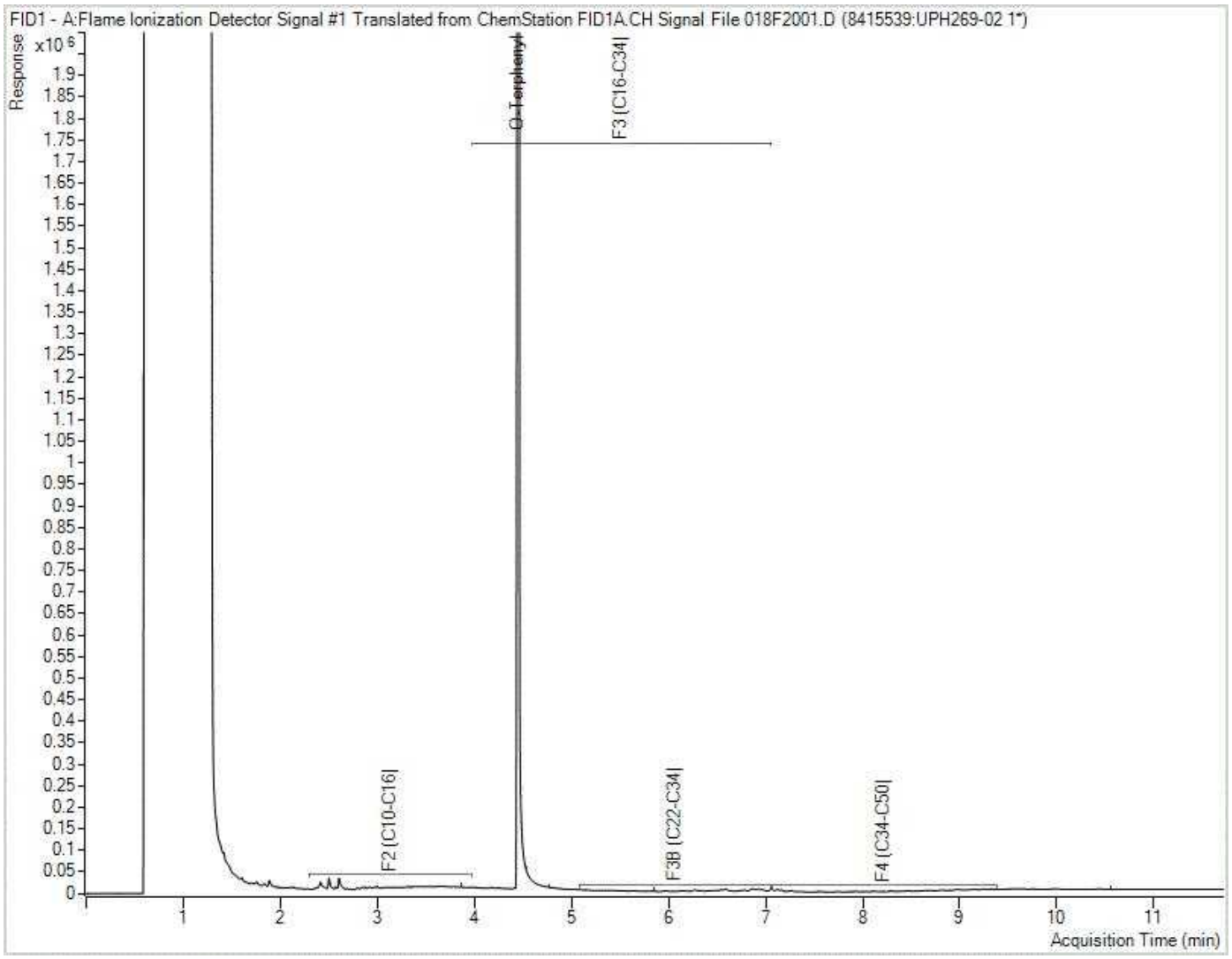
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH269

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH109_0-0.61

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



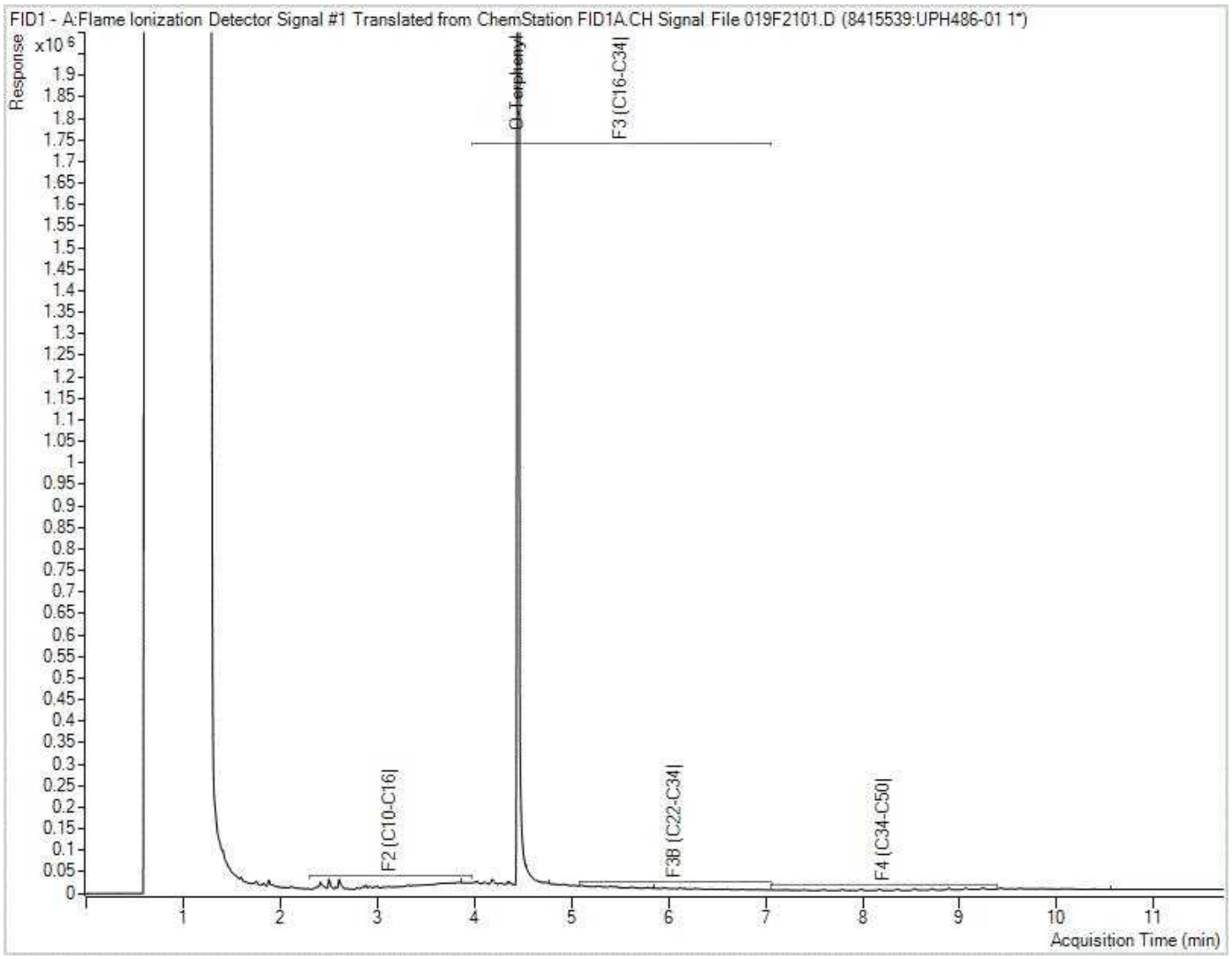
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH486

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH111_2.29-2.90

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



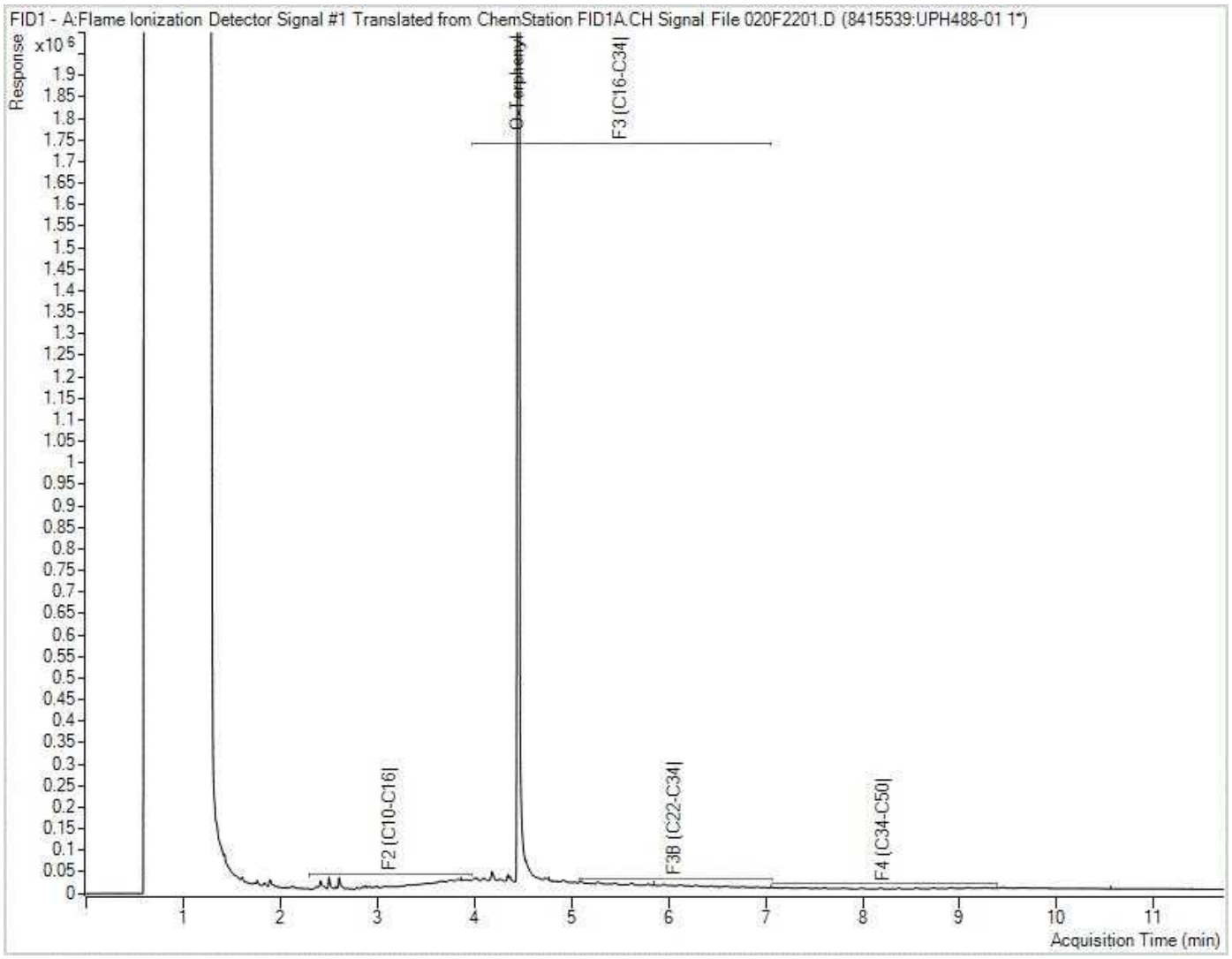
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH488

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH108_2.29-2.90

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



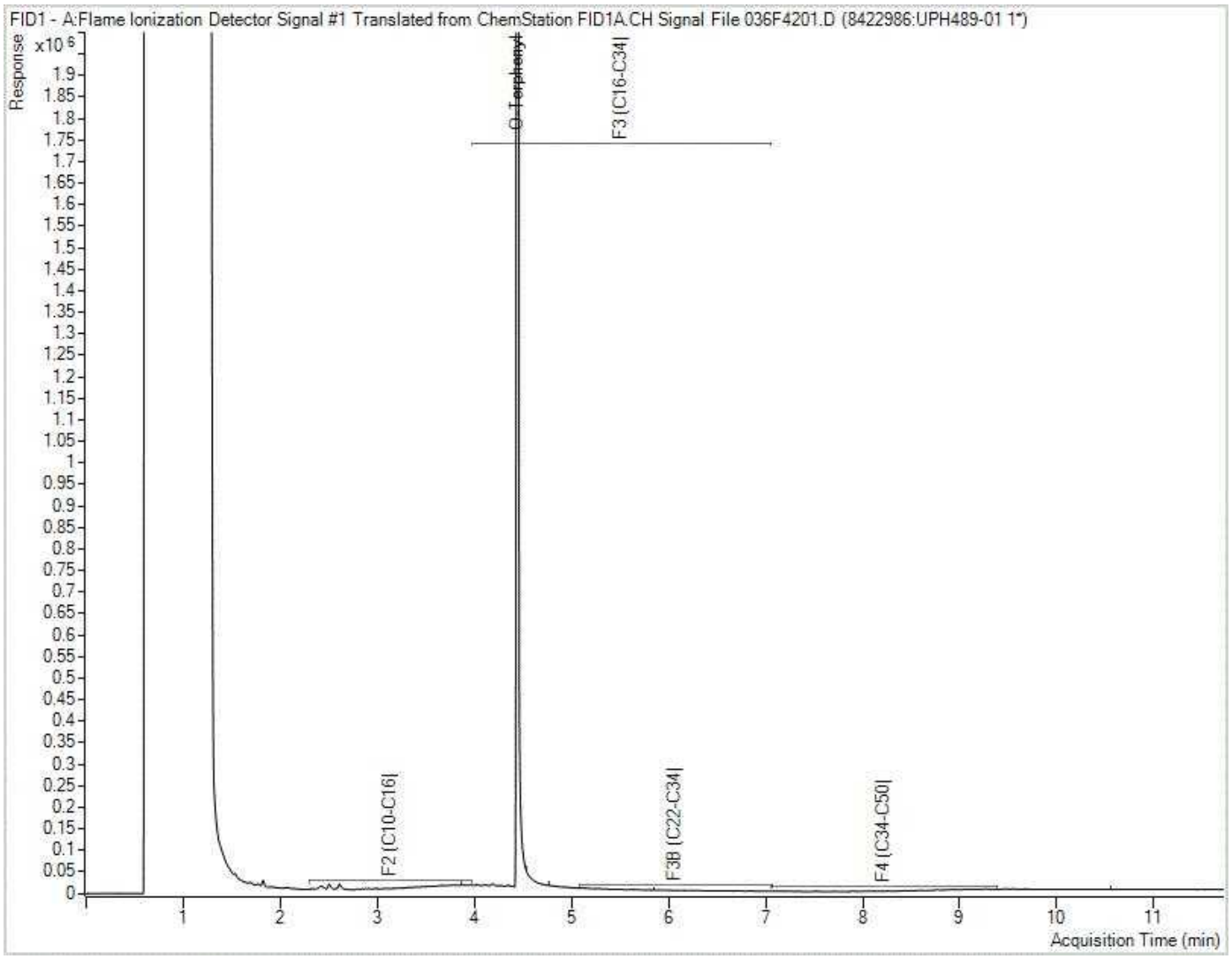
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH489

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH108_6.70-7.32

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



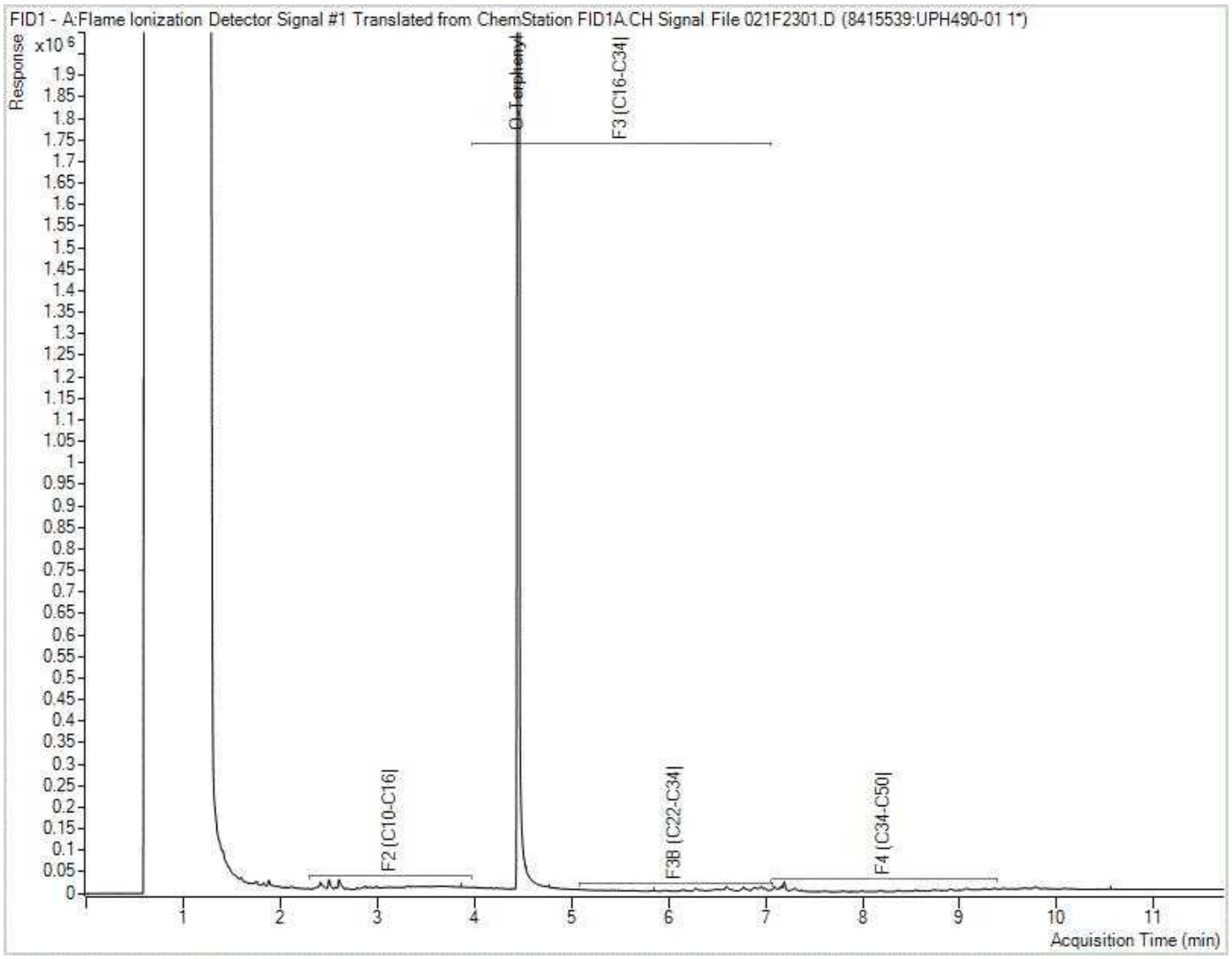
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH490

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH107_0-0.61

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



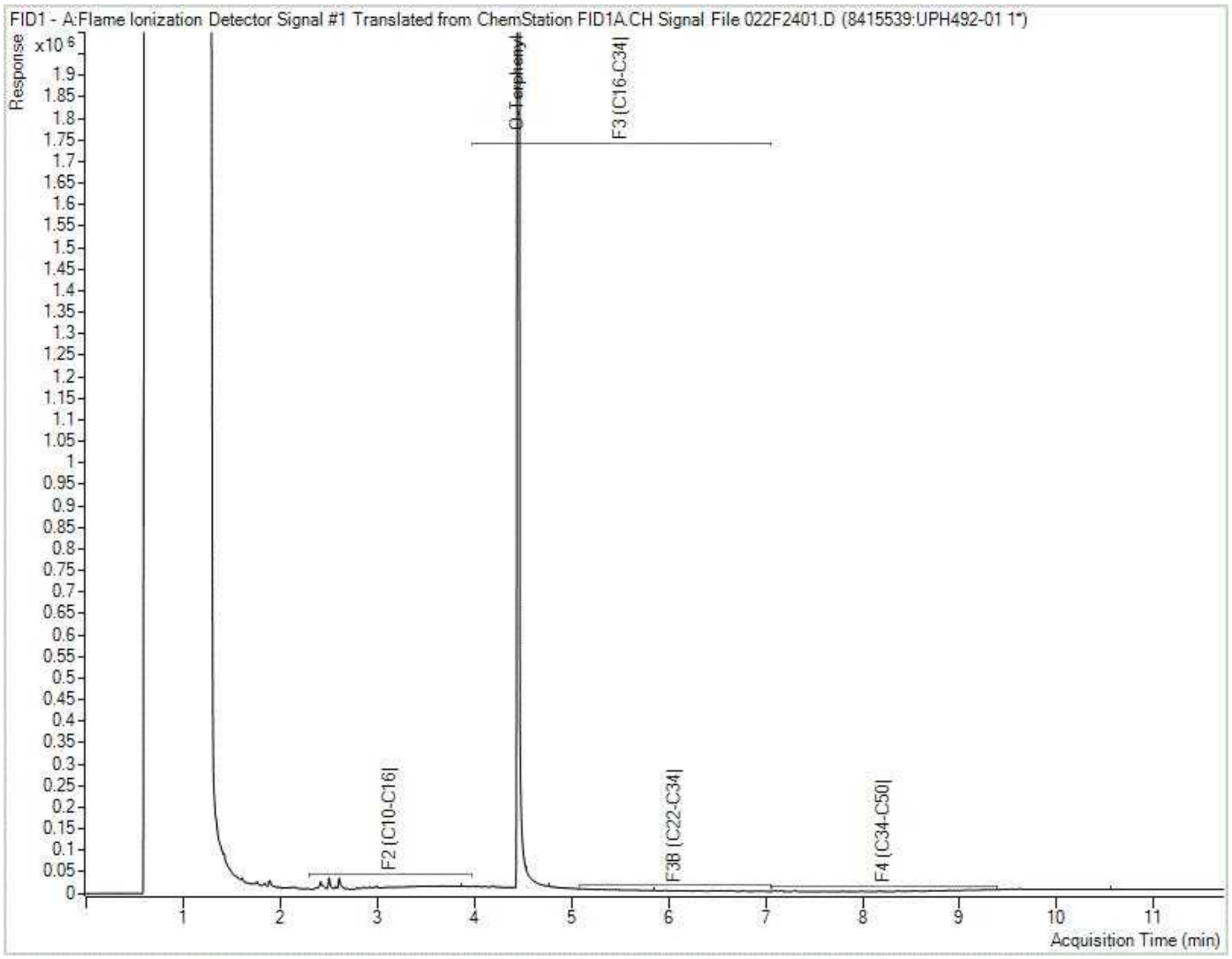
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH492

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH107_2.24-2.90

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



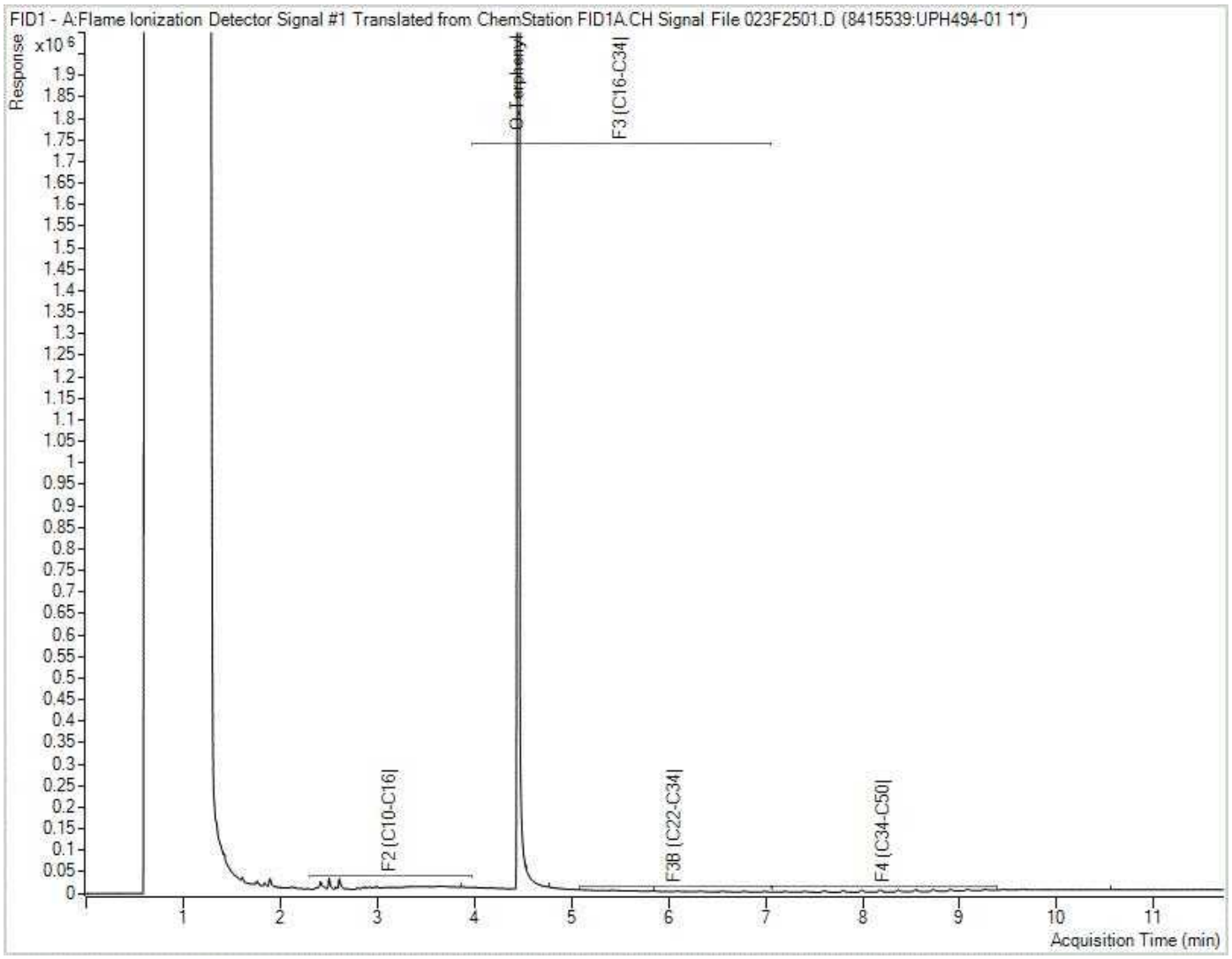
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH494

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH103_6.10-6.71

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



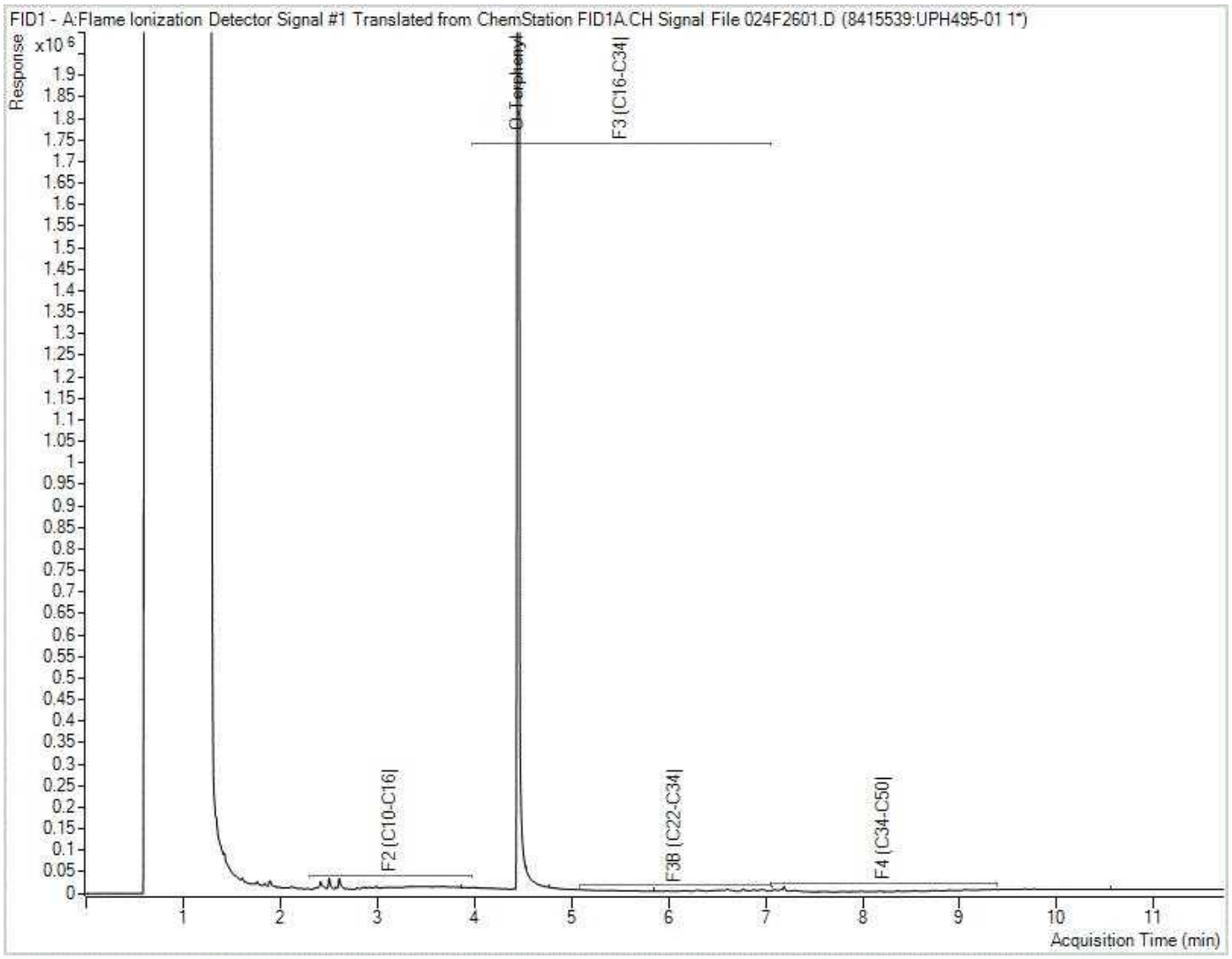
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AI894
Report Date: 2022/12/30
Bureau Veritas Sample: UPH495

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: QA/QC# 1

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.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Exceedance Summary Table – Reg153/04 T1-Soil/Res

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
BH104_2.23-2.90	UPH263-01	F2 (C10-C16 Hydrocarbons)	10	11	10	ug/g
BH113_0-0.61	UPH265-01	Conductivity	0.57	0.71	0.002	mS/cm
BH112_0-0.61	UPH268-01	Conductivity	0.57	0.88	0.002	mS/cm
BH111_2.29-2.90	UPH486-03	Acetone (2-Propanone)	0.5	13	0.49	ug/g
BH108_2.29-2.90	UPH488-01	F2 (C10-C16 Hydrocarbons)	10	12	10	ug/g
QA/QC# 1	UPH495-03	Acetone (2-Propanone)	0.5	1.2	0.49	ug/g

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

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

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Your Project #: 14455-002
Your C.O.C. #: 912055-01-01

Attention: Natalie Wright

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2023/01/05
Report #: R7455492
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2AQ672
Received: 2022/12/22, 15:45

Sample Matrix: Solid
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	4	N/A	2023/01/05	CAM SOP-00301	EPA 8270D m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	2	N/A	2022/12/30	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	2	N/A	2022/12/31	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	4	2022/12/31	2023/01/03	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	4	2022/12/30	2022/12/30	CAM SOP-00447	EPA 6020B m
Moisture	4	N/A	2022/12/29	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	4	2023/01/03	2023/01/04	CAM SOP-00318	EPA 8270D m

Remarks:

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

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(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 reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Your Project #: 14455-002
Your C.O.C. #: 912055-01-01

Attention: Natalie Wright

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2023/01/05
Report #: R7455492
Version: 2 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2AQ672

Received: 2022/12/22, 15:45

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

Please direct all questions regarding this Certificate of Analysis to:
Gemarie Balatico, Project Manager
Email: Gemarie.Balatico@bureauveritas.com
Phone# (905)817-5787

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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.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID			UQZ240	UQZ241	UQZ242	UQZ243		
Sampling Date			2022/12/20	2022/12/21	2022/12/21	2022/12/20		
	UNITS	Criteria	SED101	SED102	SED103	QA/QC #1	RDL	QC Batch
Metals								
Acid Extractable Antimony (Sb)	ug/g	1.3	0.69	0.59	0.66	0.70	0.20	8427525
Acid Extractable Arsenic (As)	ug/g	18	4.9	4.7	5.7	5.2	1.0	8427525
Acid Extractable Barium (Ba)	ug/g	220	110	110	110	110	0.50	8427525
Acid Extractable Beryllium (Be)	ug/g	2.5	0.84	0.84	0.92	0.84	0.20	8427525
Acid Extractable Boron (B)	ug/g	36	32	27	32	34	5.0	8427525
Acid Extractable Cadmium (Cd)	ug/g	1.2	0.24	0.25	0.30	0.25	0.10	8427525
Acid Extractable Chromium (Cr)	ug/g	70	25	25	28	26	1.0	8427525
Acid Extractable Cobalt (Co)	ug/g	21	13	13	14	13	0.10	8427525
Acid Extractable Copper (Cu)	ug/g	92	20	20	24	21	0.50	8427525
Acid Extractable Lead (Pb)	ug/g	120	15	19	21	15	1.0	8427525
Acid Extractable Molybdenum (Mo)	ug/g	2	2.0	2.0	**2.4**	**2.1**	0.50	8427525
Acid Extractable Nickel (Ni)	ug/g	82	30	29	34	30	0.50	8427525
Acid Extractable Selenium (Se)	ug/g	1.5	<0.50	<0.50	<0.50	<0.50	0.50	8427525
Acid Extractable Silver (Ag)	ug/g	0.5	<0.20	<0.20	<0.20	<0.20	0.20	8427525
Acid Extractable Thallium (Tl)	ug/g	1	0.23	0.19	0.25	0.23	0.050	8427525
Acid Extractable Uranium (U)	ug/g	2.5	1.9	1.6	1.7	1.8	0.050	8427525
Acid Extractable Vanadium (V)	ug/g	86	34	33	37	34	5.0	8427525
Acid Extractable Zinc (Zn)	ug/g	290	190	140	240	190	5.0	8427525

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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

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

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PAHS (SOIL)

Bureau Veritas ID			UQZ240	UQZ241	UQZ242	UQZ243		
Sampling Date			2022/12/20	2022/12/21	2022/12/21	2022/12/20		
	UNITS	Criteria	SED101	SED102	SED103	QA/QC #1	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	0.59	0.019	<0.014	<0.014	0.026	0.014	8420065
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	0.072	<0.010	<0.010	<0.010	<0.010	0.010	8430731
Acenaphthylene	ug/g	0.093	<0.010	<0.010	<0.010	<0.010	0.010	8430731
Anthracene	ug/g	0.16	<0.010	0.019	<0.010	<0.010	0.010	8430731
Benzo(a)anthracene	ug/g	0.36	<0.010	0.073	0.012	<0.010	0.010	8430731
Benzo(a)pyrene	ug/g	0.3	0.011	0.076	0.014	0.014	0.010	8430731
Benzo(b/j)fluoranthene	ug/g	0.47	0.020	0.10	0.024	0.025	0.010	8430731
Benzo(g,h,i)perylene	ug/g	0.68	0.017	0.061	0.023	0.021	0.010	8430731
Benzo(k)fluoranthene	ug/g	0.48	<0.010	0.039	<0.010	<0.010	0.010	8430731
Chrysene	ug/g	2.8	<0.010	0.062	0.012	0.013	0.010	8430731
Dibenzo(a,h)anthracene	ug/g	0.1	<0.010	0.014	<0.010	<0.010	0.010	8430731
Fluoranthene	ug/g	0.56	0.021	0.16	0.026	0.027	0.010	8430731
Fluorene	ug/g	0.12	<0.010	<0.010	<0.010	<0.010	0.010	8430731
Indeno(1,2,3-cd)pyrene	ug/g	0.23	0.013	0.062	0.016	0.015	0.010	8430731
1-Methylnaphthalene	ug/g	0.59	<0.010	<0.010	<0.010	<0.010	0.010	8430731
2-Methylnaphthalene	ug/g	0.59	0.019	0.010	<0.010	0.026	0.010	8430731
Naphthalene	ug/g	0.09	<0.010	<0.010	<0.010	<0.010	0.010	8430731
Phenanthrene	ug/g	0.69	<0.010	0.054	0.012	0.011	0.010	8430731
Pyrene	ug/g	1	0.017	0.12	0.021	0.022	0.010	8430731
Surrogate Recovery (%)								
D10-Anthracene	%	-	97	107	109	104		8430731
D14-Terphenyl (FS)	%	-	94	103	104	100		8430731
D8-Acenaphthylene	%	-	88	97	99	95		8430731

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID			UQZ240		UQZ241			UQZ241		
Sampling Date			2022/12/20		2022/12/21			2022/12/21		
	UNITS	Criteria	SED101	RDL	SED102	RDL	QC Batch	SED102 Lab-Dup	RDL	QC Batch
Inorganics										
Moisture	%	-	41	1.0	44	1.0	8426707			
BTEX & F1 Hydrocarbons										
Benzene	ug/g	0.02	<0.020	0.020	<0.020	0.020	8428560	<0.020	0.020	8428560
Toluene	ug/g	0.2	<0.020	0.020	<0.020	0.020	8428560	<0.020	0.020	8428560
Ethylbenzene	ug/g	0.05	<0.020	0.020	<0.020	0.020	8428560	<0.020	0.020	8428560
o-Xylene	ug/g	-	<0.020	0.020	<0.020	0.020	8428560	<0.020	0.020	8428560
p+m-Xylene	ug/g	-	<0.040	0.040	<0.040	0.040	8428560	<0.040	0.040	8428560
Total Xylenes	ug/g	0.05	<0.040	0.040	<0.040	0.040	8428560	<0.040	0.040	8428560
F1 (C6-C10)	ug/g	25	<10	10	<10	10	8428560	<10	10	8428560
F1 (C6-C10) - BTEX	ug/g	25	<10	10	<10	10	8428560	<10	10	8428560
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	10	<10	10	**<20 (1)**	20	8429164			
F3 (C16-C34 Hydrocarbons)	ug/g	240	120	50	130	100	8429164			
F4 (C34-C50 Hydrocarbons)	ug/g	120	<50	50	<100	100	8429164			
Reached Baseline at C50	ug/g	-	Yes		Yes		8429164			
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	-	94		92		8428560	92		8428560
4-Bromofluorobenzene	%	-	104		105		8428560	103		8428560
D10-o-Xylene	%	-	86		92		8428560	94		8428560
D4-1,2-Dichloroethane	%	-	100		98		8428560	97		8428560
o-Terphenyl	%	-	97		109		8429164			

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
(1) RDL exceeds criteria

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Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID			UQZ242	UQZ243		
Sampling Date			2022/12/21	2022/12/20		
	UNITS	Criteria	SED103	QA/QC #1	RDL	QC Batch
Inorganics						
Moisture	%	-	47	51	1.0	8426707
BTEX & F1 Hydrocarbons						
Benzene	ug/g	0.02	<0.020	<0.020	0.020	8428560
Toluene	ug/g	0.2	<0.020	<0.020	0.020	8428560
Ethylbenzene	ug/g	0.05	<0.020	<0.020	0.020	8428560
o-Xylene	ug/g	-	<0.020	<0.020	0.020	8428560
p+m-Xylene	ug/g	-	<0.040	<0.040	0.040	8428560
Total Xylenes	ug/g	0.05	<0.040	<0.040	0.040	8428560
F1 (C6-C10)	ug/g	25	<10	<10	10	8428560
F1 (C6-C10) - BTEX	ug/g	25	<10	<10	10	8428560
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	10	**<20 (1)**	**<20 (1)**	20	8429164
F3 (C16-C34 Hydrocarbons)	ug/g	240	<100	<100	100	8429164
F4 (C34-C50 Hydrocarbons)	ug/g	120	<100	<100	100	8429164
Reached Baseline at C50	ug/g	-	Yes	Yes		8429164
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	-	95	94		8428560
4-Bromofluorobenzene	%	-	103	103		8428560
D10-o-Xylene	%	-	89	87		8428560
D4-1,2-Dichloroethane	%	-	98	99		8428560
o-Terphenyl	%	-	97	111		8429164

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
(1) RDL exceeds criteria

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Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

TEST SUMMARY

Bureau Veritas ID: UQZ240
Sample ID: SED101
Matrix: Solid

Collected: 2022/12/20
Shipped:
Received: 2022/12/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8420065	N/A	2023/01/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8428560	N/A	2022/12/31	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8429164	2022/12/31	2023/01/03	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	8427525	2022/12/30	2022/12/30	Daniel Teclu
Moisture	BAL	8426707	N/A	2022/12/29	Shivani Desai
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8430731	2023/01/03	2023/01/04	Mitesh Raj

Bureau Veritas ID: UQZ241
Sample ID: SED102
Matrix: Solid

Collected: 2022/12/21
Shipped:
Received: 2022/12/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8420065	N/A	2023/01/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8428560	N/A	2022/12/30	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8429164	2022/12/31	2023/01/03	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	8427525	2022/12/30	2022/12/30	Daniel Teclu
Moisture	BAL	8426707	N/A	2022/12/29	Shivani Desai
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8430731	2023/01/03	2023/01/04	Mitesh Raj

Bureau Veritas ID: UQZ241 Dup
Sample ID: SED102
Matrix: Solid

Collected: 2022/12/21
Shipped:
Received: 2022/12/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8428560	N/A	2022/12/30	Georgeta Rusu

Bureau Veritas ID: UQZ242
Sample ID: SED103
Matrix: Solid

Collected: 2022/12/21
Shipped:
Received: 2022/12/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8420065	N/A	2023/01/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8428560	N/A	2022/12/30	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8429164	2022/12/31	2023/01/03	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	8427525	2022/12/30	2022/12/30	Daniel Teclu
Moisture	BAL	8426707	N/A	2022/12/29	Shivani Desai
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8430731	2023/01/03	2023/01/04	Mitesh Raj

Bureau Veritas ID: UQZ243
Sample ID: QA/QC #1
Matrix: Solid

Collected: 2022/12/20
Shipped:
Received: 2022/12/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8420065	N/A	2023/01/05	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8428560	N/A	2022/12/31	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8429164	2022/12/31	2023/01/03	Agnieszka Brzuzy-Snopko

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Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

TEST SUMMARY

Bureau Veritas ID: UQZ243
Sample ID: QA/QC #1
Matrix: Solid

Collected: 2022/12/20
Shipped:
Received: 2022/12/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	8427525	2022/12/30	2022/12/30	Daniel Teclu
Moisture	BAL	8426707	N/A	2022/12/29	Shivani Desai
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8430731	2023/01/03	2023/01/04	Mitesh Raj

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Cambium Environmental Inc
Client Project #: 14455-002
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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C

Sample UQZ240 [SED101] : PAH Analysis: Detection limits were adjusted for high moisture content.

Sample UQZ241 [SED102] : F2-F4 Analysis: Detection limits were adjusted for high moisture content.

PAH Analysis: Detection limits were adjusted for high moisture content.

Sample UQZ242 [SED103] : F2-F4 Analysis: Detection limits were adjusted for high moisture content.

PAH Analysis: Detection limits were adjusted for high moisture content.

Sample UQZ243 [QA/QC #1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

F2-F4 Analysis: Detection limits were adjusted for high moisture content.

PAH Analysis: Detection limits were adjusted for high moisture content.

Results relate only to the items tested.

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Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05

QUALITY ASSURANCE REPORT

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8428560	1,4-Difluorobenzene	2022/12/30	94	60 - 140	94	60 - 140	94	%		
8428560	4-Bromofluorobenzene	2022/12/30	106	60 - 140	105	60 - 140	103	%		
8428560	D10-o-Xylene	2022/12/30	90	60 - 140	90	60 - 140	85	%		
8428560	D4-1,2-Dichloroethane	2022/12/30	98	60 - 140	97	60 - 140	99	%		
8429164	o-Terphenyl	2023/01/03	106	60 - 130	98	60 - 130	107	%		
8430731	D10-Anthracene	2023/01/04	105	50 - 130	105	50 - 130	106	%		
8430731	D14-Terphenyl (FS)	2023/01/04	99	50 - 130	98	50 - 130	98	%		
8430731	D8-Acenaphthylene	2023/01/04	94	50 - 130	98	50 - 130	97	%		
8426707	Moisture	2022/12/29							1.1	20
8427525	Acid Extractable Antimony (Sb)	2022/12/30	105	75 - 125	106	80 - 120	<0.20	ug/g	NC	30
8427525	Acid Extractable Arsenic (As)	2022/12/30	108	75 - 125	103	80 - 120	<1.0	ug/g	7.7	30
8427525	Acid Extractable Barium (Ba)	2022/12/30	NC	75 - 125	102	80 - 120	<0.50	ug/g	0.94	30
8427525	Acid Extractable Beryllium (Be)	2022/12/30	105	75 - 125	100	80 - 120	<0.20	ug/g	1.2	30
8427525	Acid Extractable Boron (B)	2022/12/30	102	75 - 125	100	80 - 120	<5.0	ug/g	1.6	30
8427525	Acid Extractable Cadmium (Cd)	2022/12/30	105	75 - 125	102	80 - 120	<0.10	ug/g	8.3	30
8427525	Acid Extractable Chromium (Cr)	2022/12/30	109	75 - 125	104	80 - 120	<1.0	ug/g	1.3	30
8427525	Acid Extractable Cobalt (Co)	2022/12/30	106	75 - 125	102	80 - 120	<0.10	ug/g	1.8	30
8427525	Acid Extractable Copper (Cu)	2022/12/30	104	75 - 125	105	80 - 120	<0.50	ug/g	0.15	30
8427525	Acid Extractable Lead (Pb)	2022/12/30	101	75 - 125	102	80 - 120	<1.0	ug/g	0.53	30
8427525	Acid Extractable Molybdenum (Mo)	2022/12/30	107	75 - 125	103	80 - 120	<0.50	ug/g	NC	30
8427525	Acid Extractable Nickel (Ni)	2022/12/30	104	75 - 125	102	80 - 120	<0.50	ug/g	2.8	30
8427525	Acid Extractable Selenium (Se)	2022/12/30	109	75 - 125	105	80 - 120	<0.50	ug/g	NC	30
8427525	Acid Extractable Silver (Ag)	2022/12/30	105	75 - 125	102	80 - 120	<0.20	ug/g	NC	30
8427525	Acid Extractable Thallium (Tl)	2022/12/30	104	75 - 125	103	80 - 120	<0.050	ug/g	0.73	30
8427525	Acid Extractable Uranium (U)	2022/12/30	104	75 - 125	99	80 - 120	<0.050	ug/g	6.6	30
8427525	Acid Extractable Vanadium (V)	2022/12/30	110	75 - 125	102	80 - 120	<5.0	ug/g	0.65	30
8427525	Acid Extractable Zinc (Zn)	2022/12/30	NC	75 - 125	102	80 - 120	<5.0	ug/g	1.5	30
8428560	Benzene	2022/12/30	86	50 - 140	85	50 - 140	<0.020	ug/g	NC	50
8428560	Ethylbenzene	2022/12/30	93	50 - 140	93	50 - 140	<0.020	ug/g	NC	50
8428560	F1 (C6-C10) - BTEX	2022/12/30					<10	ug/g	NC	30
8428560	F1 (C6-C10)	2022/12/30	98	60 - 140	95	80 - 120	<10	ug/g	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8428560	o-Xylene	2022/12/30	92	50 - 140	93	50 - 140	<0.020	ug/g	NC	50
8428560	p+m-Xylene	2022/12/30	88	50 - 140	89	50 - 140	<0.040	ug/g	NC	50
8428560	Toluene	2022/12/30	83	50 - 140	84	50 - 140	<0.020	ug/g	NC	50
8428560	Total Xylenes	2022/12/30					<0.040	ug/g	NC	50
8429164	F2 (C10-C16 Hydrocarbons)	2023/01/03	112	60 - 130	103	80 - 120	<10	ug/g	NC	30
8429164	F3 (C16-C34 Hydrocarbons)	2023/01/03	114	60 - 130	107	80 - 120	<50	ug/g	NC	30
8429164	F4 (C34-C50 Hydrocarbons)	2023/01/03	115	60 - 130	108	80 - 120	<50	ug/g	NC	30
8430731	1-Methylnaphthalene	2023/01/04	103	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
8430731	2-Methylnaphthalene	2023/01/04	94	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
8430731	Acenaphthene	2023/01/04	107	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
8430731	Acenaphthylene	2023/01/04	103	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
8430731	Anthracene	2023/01/04	110	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
8430731	Benzo(a)anthracene	2023/01/04	108	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
8430731	Benzo(a)pyrene	2023/01/04	102	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
8430731	Benzo(b/j)fluoranthene	2023/01/04	102	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
8430731	Benzo(g,h,i)perylene	2023/01/04	116	50 - 130	112	50 - 130	<0.0050	ug/g	NC	40
8430731	Benzo(k)fluoranthene	2023/01/04	103	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
8430731	Chrysene	2023/01/04	108	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
8430731	Dibenzo(a,h)anthracene	2023/01/04	109	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
8430731	Fluoranthene	2023/01/04	106	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
8430731	Fluorene	2023/01/04	102	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
8430731	Indeno(1,2,3-cd)pyrene	2023/01/04	111	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
8430731	Naphthalene	2023/01/04	99	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
8430731	Phenanthrene	2023/01/04	106	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8430731	Pyrene	2023/01/04	105	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40

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).

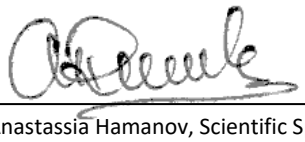
Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

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

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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.

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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

22-Dec-22 15:45
Gemarie Balatico
C2AQ672
MTM ENV-1261

INVOICE TO:

Company Name: #17950 Cambium Environmental Inc
Attention: ACCOUNTS PAYABLE
Address: 194 Sophia Street PO Box 325
Peterborough ON K9H 1E5
Tel: (705) 742-7900 Fax: (705) 742-7907
Email: accounting@cambium-inc.com

REPORT TO:

Company Name:
Attention: Natalie. Wright.
Address:
Tel: Fax:
Email: Natalie.Wright@cambium-inc.com

PROJECT INFORMATION:

Quotation #: C21984
P.O. #:
Project: 14455-002
Project Name:
Site #:
Sampled By: Logan Wintemute.

Lab Use Only:

Bottle Order #: 912055
COC #: C#912055-01-01
Project Manager: Gemarie Balatico

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)? Y

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

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	O.Reg 153 PHCs, BTEX/F1-F4 (Soil)	O.Reg 153 PAHs (Soil)	O.Reg 153 ICPMS Metals (Soil)	Sodium Adsorption Ratio (SAR)	Conductivity	# of Bottles	Comments
1		SED101	22/12/20		SED	X	X	X			4	
2		SED102	22/12/21		SED	X	X	X			4	
3		SED103	22/12/21		SED	X	X	X			4	
4		QA/QC #1	22/12/20		SED	X	X	X			4	
5												
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
Logan Wintemute.	22/12/22				1635	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei 12/2
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

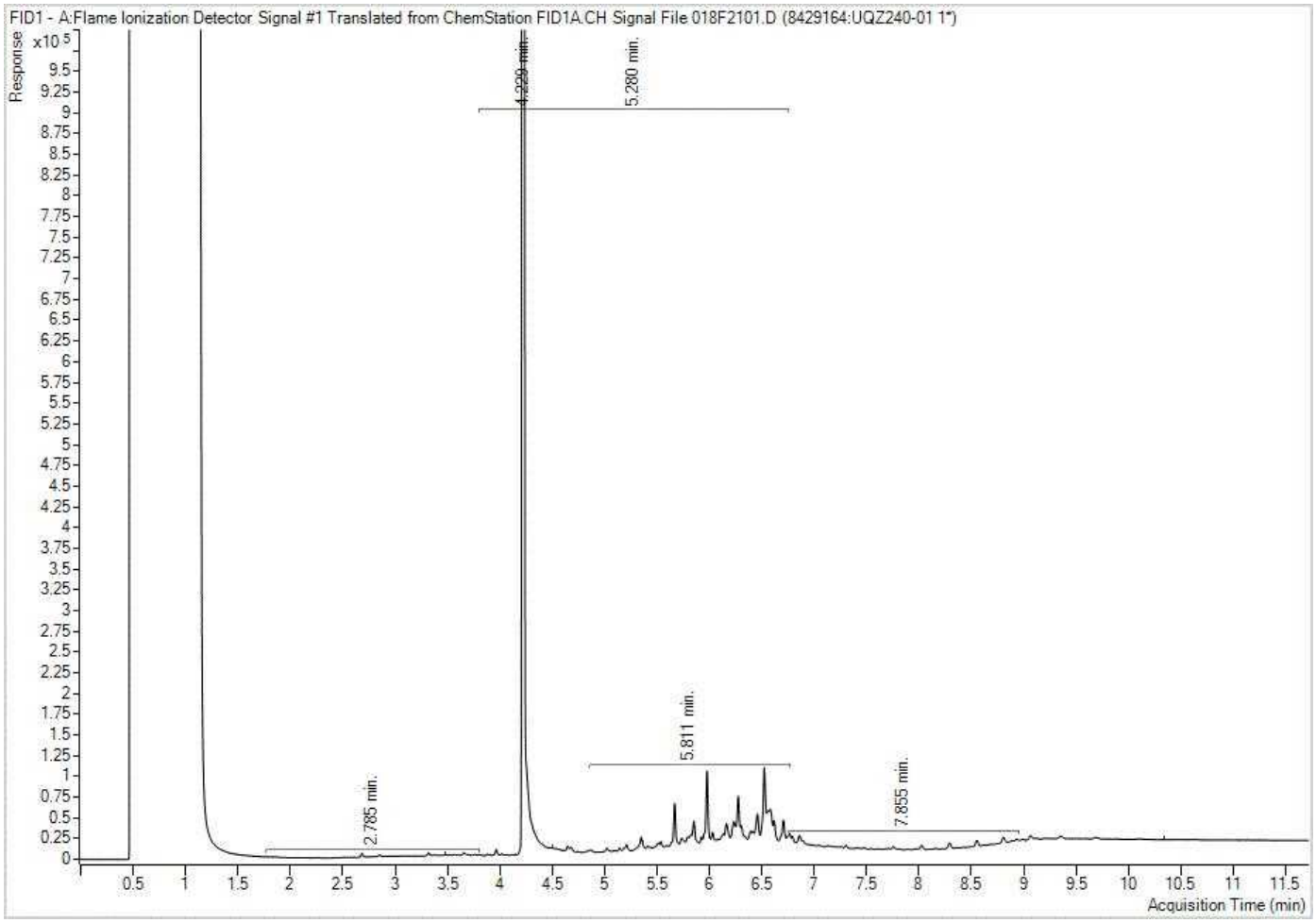
Bureau Veritas Canada (2019) Inc.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05
Bureau Veritas Sample: UQZ240

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: SED101

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



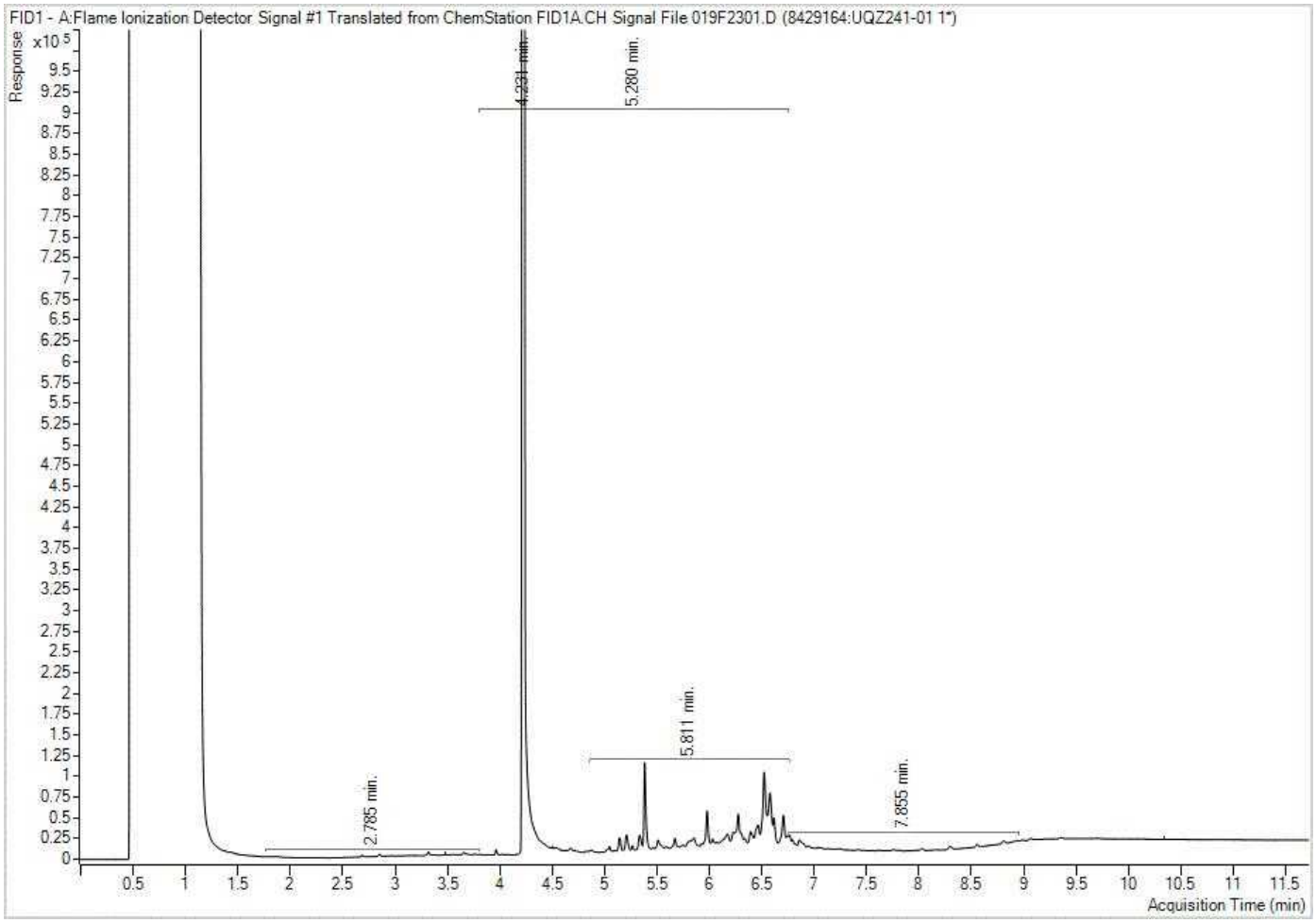
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05
Bureau Veritas Sample: UQZ241

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: SED102

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



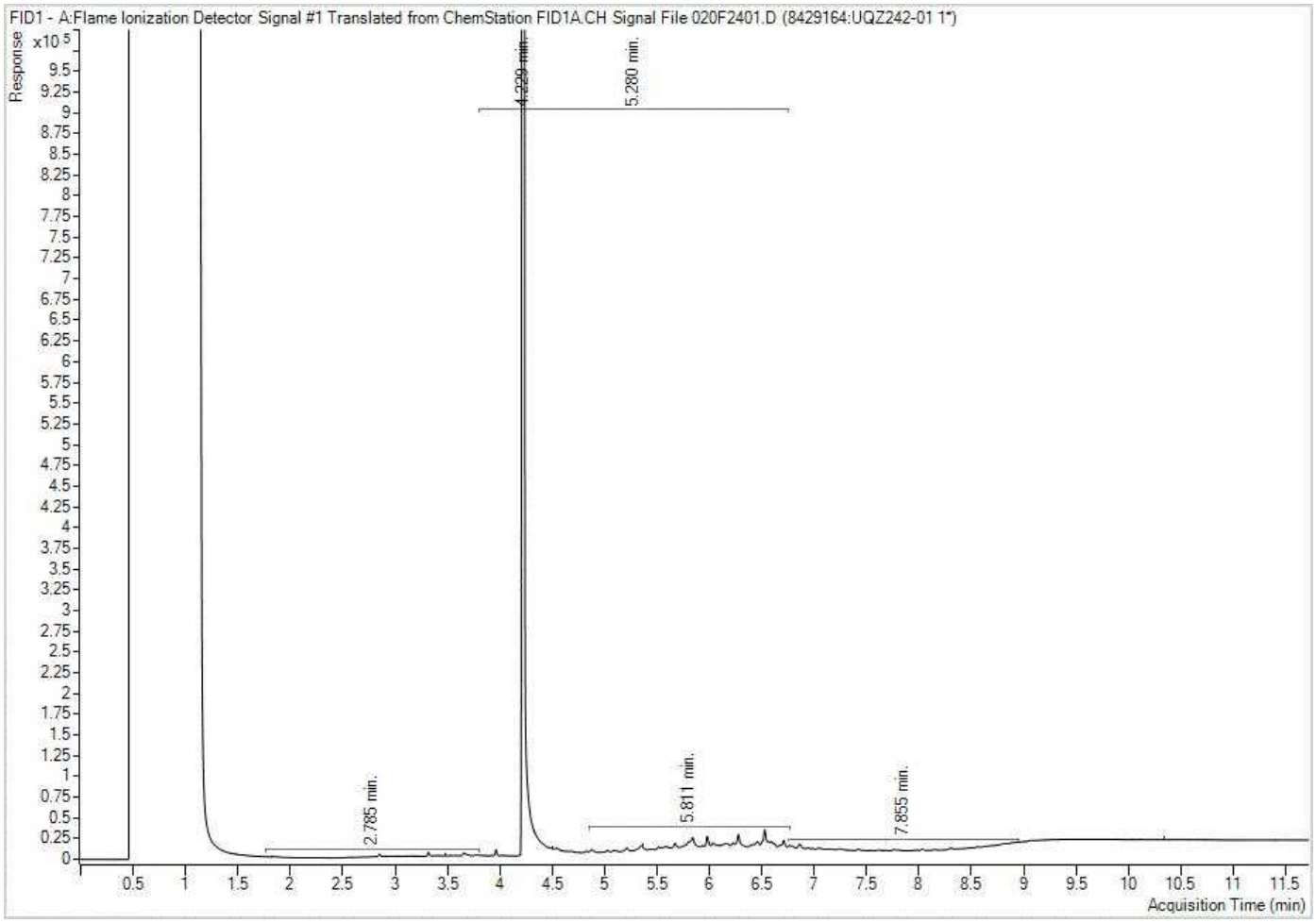
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05
Bureau Veritas Sample: UQZ242

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: SED103

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



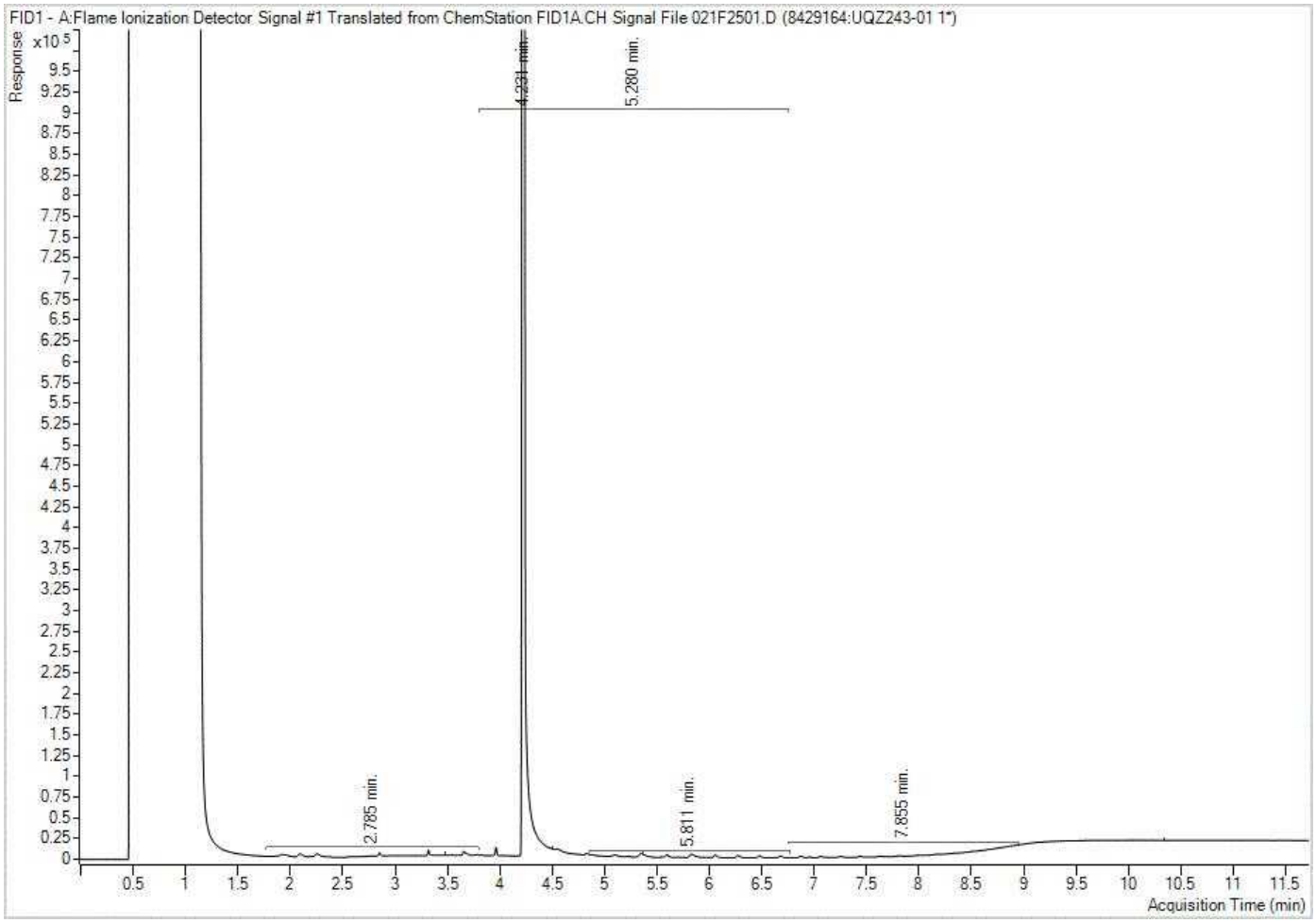
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DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AQ672
Report Date: 2023/01/05
Bureau Veritas Sample: UQZ243

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: QA/QC #1

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.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Exceedance Summary Table – Reg153/04 T1-Soil/Res

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
SED103	UQZ242-03	Acid Extractable Molybdenum (Mo)	2	2.4	0.50	ug/g
QA/QC #1	UQZ243-03	Acid Extractable Molybdenum (Mo)	2	2.1	0.50	ug/g

Detection Limit Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
SED102	UQZ241-01	F2 (C10-C16 Hydrocarbons)	10	<20	20	ug/g
SED103	UQZ242-01	F2 (C10-C16 Hydrocarbons)	10	<20	20	ug/g
QA/QC #1	UQZ243-01	F2 (C10-C16 Hydrocarbons)	10	<20	20	ug/g

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

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DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Your Project #: 14455-004
Your C.O.C. #: 966663-01-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2024/03/01
Report #: R8049248
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3AS695
Received: 2023/12/01, 13:55

Sample Matrix: Soil
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	5	N/A	2023/12/07	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron	2	2023/12/06	2023/12/06	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron	3	2023/12/06	2023/12/07	CAM SOP-00408	R153 Ana. Prot. 2011
Hexavalent Chromium in Soil by IC (1)	5	2023/12/07	2023/12/11	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydro. CCME F1 & BTEX in Soil (2)	5	N/A	2023/12/06	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (3)	5	2023/12/06	2023/12/06	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	5	2023/12/06	2023/12/06	CAM SOP-00447	EPA 6020B m
Moisture	5	N/A	2023/12/04	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	5	2023/12/06	2023/12/06	CAM SOP-00318	EPA 8270E

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, EPA, APHA or the Quebec Ministry of Environment.

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Soils are reported on a dry weight basis unless otherwise specified.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Your Project #: 14455-004
Your C.O.C. #: 966663-01-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2024/03/01
Report #: R8049248
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3AS695

Received: 2023/12/01, 13:55

(2) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(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

Please direct all questions regarding this Certificate of Analysis to:
Christine Gripton, Senior Project Manager
Email: Christine.Gripton@bureauveritas.com
Phone# (519)652-9444

==========

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.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

O.REG 153 METALS PACKAGE (SOIL)

Bureau Veritas ID			XTU379	XTU380		XTU381		
Sampling Date			2023/11/30 15:50	2023/11/30 14:40		2023/11/30 13:45		
COC Number			966663-01-01	966663-01-01		966663-01-01		
	UNITS	Criteria	SED 101	SED 102	QC Batch	SED 103	RDL	QC Batch
Inorganics								
Chromium (VI)	ug/g	-	<0.36	<0.36	9098123	<0.36	0.36	9098123
Metals								
Hot Water Ext. Boron (B)	ug/g	-	3.7	2.7	9094067	4.8	0.050	9093638
Acid Extractable Antimony (Sb)	ug/g	-	0.53	0.55	9094430	0.70	0.20	9094046
Acid Extractable Arsenic (As)	ug/g	6	5.8	5.3	9094430	**6.2**	1.0	9094046
Acid Extractable Barium (Ba)	ug/g	-	96	93	9094430	120	0.50	9094046
Acid Extractable Beryllium (Be)	ug/g	-	0.78	0.84	9094430	0.87	0.20	9094046
Acid Extractable Boron (B)	ug/g	-	23	24	9094430	35	5.0	9094046
Acid Extractable Cadmium (Cd)	ug/g	0.6	0.15	0.14	9094430	0.27	0.10	9094046
Acid Extractable Chromium (Cr)	ug/g	26	24	25	9094430	**28**	1.0	9094046
Acid Extractable Cobalt (Co)	ug/g	50	13	13	9094430	13	0.10	9094046
Acid Extractable Copper (Cu)	ug/g	16	**17**	**19**	9094430	**25**	0.50	9094046
Acid Extractable Lead (Pb)	ug/g	31	14	14	9094430	20	1.0	9094046
Acid Extractable Molybdenum (Mo)	ug/g	-	3.0	2.0	9094430	3.5	0.50	9094046
Acid Extractable Nickel (Ni)	ug/g	16	**29**	**30**	9094430	**33**	0.50	9094046
Acid Extractable Selenium (Se)	ug/g	-	<0.50	<0.50	9094430	<0.50	0.50	9094046
Acid Extractable Silver (Ag)	ug/g	0.5	<0.20	<0.20	9094430	<0.20	0.20	9094046
Acid Extractable Thallium (Tl)	ug/g	-	0.20	0.20	9094430	0.24	0.050	9094046
Acid Extractable Uranium (U)	ug/g	-	1.4	1.4	9094430	2.0	0.050	9094046
Acid Extractable Vanadium (V)	ug/g	-	32	32	9094430	36	5.0	9094046
Acid Extractable Zinc (Zn)	ug/g	120	**160**	**150**	9094430	**260**	5.0	9094046
Acid Extractable Mercury (Hg)	ug/g	0.2	<0.050	<0.050	9094430	<0.050	0.050	9094046

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Sediment - All Types of Property Uses

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

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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

O.REG 153 METALS PACKAGE (SOIL)

Bureau Veritas ID			XTU382			XTU384		
Sampling Date			2023/11/30 12:55			2023/11/30		
COC Number			966663-01-01			966663-01-01		
	UNITS	Criteria	SED 104	RDL	QC Batch	QAQC 2	RDL	QC Batch
Inorganics								
Chromium (VI)	ug/g	-	<0.18	0.18	9098123	<0.36	0.36	9098123
Metals								
Hot Water Ext. Boron (B)	ug/g	-	2.2	0.050	9094067	4.8	0.050	9093638
Acid Extractable Antimony (Sb)	ug/g	-	<0.20	0.20	9094430	0.76	0.20	9094046
Acid Extractable Arsenic (As)	ug/g	6	4.6	1.0	9094430	**7.1**	1.0	9094046
Acid Extractable Barium (Ba)	ug/g	-	90	0.50	9094430	130	0.50	9094046
Acid Extractable Beryllium (Be)	ug/g	-	0.65	0.20	9094430	0.87	0.20	9094046
Acid Extractable Boron (B)	ug/g	-	13	5.0	9094430	34	5.0	9094046
Acid Extractable Cadmium (Cd)	ug/g	0.6	0.10	0.10	9094430	0.27	0.10	9094046
Acid Extractable Chromium (Cr)	ug/g	26	20	1.0	9094430	**29**	1.0	9094046
Acid Extractable Cobalt (Co)	ug/g	50	11	0.10	9094430	14	0.10	9094046
Acid Extractable Copper (Cu)	ug/g	16	**29**	0.50	9094430	**26**	0.50	9094046
Acid Extractable Lead (Pb)	ug/g	31	11	1.0	9094430	21	1.0	9094046
Acid Extractable Molybdenum (Mo)	ug/g	-	0.75	0.50	9094430	3.6	0.50	9094046
Acid Extractable Nickel (Ni)	ug/g	16	**25**	0.50	9094430	**34**	0.50	9094046
Acid Extractable Selenium (Se)	ug/g	-	<0.50	0.50	9094430	<0.50	0.50	9094046
Acid Extractable Silver (Ag)	ug/g	0.5	<0.20	0.20	9094430	<0.20	0.20	9094046
Acid Extractable Thallium (Tl)	ug/g	-	0.15	0.050	9094430	0.24	0.050	9094046
Acid Extractable Uranium (U)	ug/g	-	0.78	0.050	9094430	2.0	0.050	9094046
Acid Extractable Vanadium (V)	ug/g	-	28	5.0	9094430	37	5.0	9094046
Acid Extractable Zinc (Zn)	ug/g	120	64	5.0	9094430	**280**	5.0	9094046
Acid Extractable Mercury (Hg)	ug/g	0.2	<0.050	0.050	9094430	<0.050	0.050	9094046

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

O.REG 153 PAHS (SOIL)

Bureau Veritas ID			XTU379		XTU380		XTU381		
Sampling Date			2023/11/30 15:50		2023/11/30 14:40		2023/11/30 13:45		
COC Number			966663-01-01		966663-01-01		966663-01-01		
	UNITS	Criteria	SED 101	QC Batch	SED 102	QC Batch	SED 103	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	-	<0.014	9086939	<0.014	9086939	<0.014	0.014	9086939
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	-	<0.010	9093164	<0.010	9093166	<0.010	0.010	9093164
Acenaphthylene	ug/g	-	<0.010	9093164	<0.010	9093166	<0.010	0.010	9093164
Anthracene	ug/g	0.22	<0.010	9093164	<0.010	9093166	<0.010	0.010	9093164
Benzo(a)anthracene	ug/g	0.32	0.016	9093164	<0.010	9093166	<0.010	0.010	9093164
Benzo(a)pyrene	ug/g	0.37	0.016	9093164	<0.010	9093166	0.013	0.010	9093164
Benzo(b/j)fluoranthene	ug/g	-	0.026	9093164	0.018	9093166	0.023	0.010	9093164
Benzo(g,h,i)perylene	ug/g	0.17	0.017	9093164	0.013	9093166	0.018	0.010	9093164
Benzo(k)fluoranthene	ug/g	0.24	<0.010	9093164	<0.010	9093166	<0.010	0.010	9093164
Chrysene	ug/g	0.34	0.014	9093164	<0.010	9093166	0.011	0.010	9093164
Dibenzo(a,h)anthracene	ug/g	0.06	<0.010	9093164	<0.010	9093166	<0.010	0.010	9093164
Fluoranthene	ug/g	0.75	0.033	9093164	0.021	9093166	0.025	0.010	9093164
Fluorene	ug/g	0.19	<0.010	9093164	<0.010	9093166	<0.010	0.010	9093164
Indeno(1,2,3-cd)pyrene	ug/g	0.2	0.014	9093164	<0.010	9093166	0.013	0.010	9093164
1-Methylnaphthalene	ug/g	-	<0.010	9093164	<0.010	9093166	<0.010	0.010	9093164
2-Methylnaphthalene	ug/g	-	<0.010	9093164	<0.010	9093166	<0.010	0.010	9093164
Naphthalene	ug/g	-	<0.010	9093164	<0.010	9093166	<0.010	0.010	9093164
Phenanthrene	ug/g	0.56	0.010	9093164	<0.010	9093166	0.012	0.010	9093164
Pyrene	ug/g	0.49	0.026	9093164	0.017	9093166	0.021	0.010	9093164
Surrogate Recovery (%)									
D10-Anthracene	%	-	101	9093164	97	9093166	103		9093164
D14-Terphenyl (FS)	%	-	102	9093164	102	9093166	102		9093164
D8-Acenaphthylene	%	-	89	9093164	90	9093166	89		9093164

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Sediment - All Types of Property Uses

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

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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

O.REG 153 PAHS (SOIL)

Bureau Veritas ID			XTU382			XTU384		
Sampling Date			2023/11/30 12:55			2023/11/30		
COC Number			966663-01-01			966663-01-01		
	UNITS	Criteria	SED 104	RDL	QC Batch	QAQC 2	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	-	<0.0071	0.0071	9086939	<0.014	0.014	9086939
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	-	<0.0050	0.0050	9093166	<0.010	0.010	9093164
Acenaphthylene	ug/g	-	<0.0050	0.0050	9093166	<0.010	0.010	9093164
Anthracene	ug/g	0.22	<0.0050	0.0050	9093166	<0.010	0.010	9093164
Benzo(a)anthracene	ug/g	0.32	<0.0050	0.0050	9093166	0.012	0.010	9093164
Benzo(a)pyrene	ug/g	0.37	<0.0050	0.0050	9093166	0.016	0.010	9093164
Benzo(b/j)fluoranthene	ug/g	-	<0.0050	0.0050	9093166	0.027	0.010	9093164
Benzo(g,h,i)perylene	ug/g	0.17	<0.0050	0.0050	9093166	0.020	0.010	9093164
Benzo(k)fluoranthene	ug/g	0.24	<0.0050	0.0050	9093166	<0.010	0.010	9093164
Chrysene	ug/g	0.34	<0.0050	0.0050	9093166	0.013	0.010	9093164
Dibenzo(a,h)anthracene	ug/g	0.06	<0.0050	0.0050	9093166	<0.010	0.010	9093164
Fluoranthene	ug/g	0.75	<0.0050	0.0050	9093166	0.028	0.010	9093164
Fluorene	ug/g	0.19	<0.0050	0.0050	9093166	<0.010	0.010	9093164
Indeno(1,2,3-cd)pyrene	ug/g	0.2	<0.0050	0.0050	9093166	0.016	0.010	9093164
1-Methylnaphthalene	ug/g	-	<0.0050	0.0050	9093166	<0.010	0.010	9093164
2-Methylnaphthalene	ug/g	-	<0.0050	0.0050	9093166	<0.010	0.010	9093164
Naphthalene	ug/g	-	<0.0050	0.0050	9093166	<0.010	0.010	9093164
Phenanthrene	ug/g	0.56	<0.0050	0.0050	9093166	0.012	0.010	9093164
Pyrene	ug/g	0.49	<0.0050	0.0050	9093166	0.023	0.010	9093164
Surrogate Recovery (%)								
D10-Anthracene	%	-	90		9093166	98		9093164
D14-Terphenyl (FS)	%	-	89		9093166	98		9093164
D8-Acenaphthylene	%	-	80		9093166	92		9093164

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Sediment - All Types of Property Uses

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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		XTU379	XTU380	XTU381		XTU382		XTU384		
Sampling Date		2023/11/30 15:50	2023/11/30 14:40	2023/11/30 13:45		2023/11/30 12:55		2023/11/30		
COC Number		966663-01-01	966663-01-01	966663-01-01		966663-01-01		966663-01-01		
	UNITS	SED 101	SED 102	SED 103	RDL	SED 104	RDL	QAQC 2	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.060	<0.060	<0.060	0.060	<0.020	0.020	<0.060	0.060	9093278
Toluene	ug/g	<0.060	<0.060	<0.060	0.060	<0.020	0.020	<0.060	0.060	9093278
Ethylbenzene	ug/g	<0.060	<0.060	<0.060	0.060	<0.020	0.020	<0.060	0.060	9093278
o-Xylene	ug/g	<0.060	<0.060	<0.060	0.060	<0.020	0.020	<0.060	0.060	9093278
p+m-Xylene	ug/g	<0.12	<0.12	<0.12	0.12	<0.040	0.040	<0.12	0.12	9093278
Total Xylenes	ug/g	<0.12	<0.12	<0.12	0.12	<0.040	0.040	<0.12	0.12	9093278
F1 (C6-C10)	ug/g	<30	<30	<30	30	<10	10	<30	30	9093278
F1 (C6-C10) - BTEX	ug/g	<30	<30	<30	30	<10	10	<30	30	9093278
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<20	<20	<20	20	<10	10	<20	20	9093165
F3 (C16-C34 Hydrocarbons)	ug/g	<100	<100	110	100	<50	50	110	100	9093165
F4 (C34-C50 Hydrocarbons)	ug/g	<100	<100	<100	100	<50	50	<100	100	9093165
Reached Baseline at C50	ug/g	Yes	Yes	Yes		Yes		Yes		9093165
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	97	96	98		97		97		9093278
4-Bromofluorobenzene	%	99	100	98		96		99		9093278
D10-o-Xylene	%	83	77	86		92		81		9093278
D4-1,2-Dichloroethane	%	100	103	104		110		103		9093278
o-Terphenyl	%	106	96	98		96		98		9093165

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		XTU379	XTU380	XTU381	XTU382	XTU384		
Sampling Date		2023/11/30 15:50	2023/11/30 14:40	2023/11/30 13:45	2023/11/30 12:55	2023/11/30		
COC Number		966663-01-01	966663-01-01	966663-01-01	966663-01-01	966663-01-01		
	UNITS	SED 101	SED 102	SED 103	SED 104	QAQC 2	RDL	QC Batch
Inorganics								
Moisture	%	48	51	58	27	58	1.0	9090254

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

TEST SUMMARY

Bureau Veritas ID: XTU379
Sample ID: SED 101
Matrix: Soil

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9086939	N/A	2023/12/07	Automated Statchk
Hot Water Extractable Boron	ICP	9094067	2023/12/06	2023/12/07	Medhat Nasr
Hexavalent Chromium in Soil by IC	IC/SPEC	9098123	2023/12/07	2023/12/11	Lusine Khachatryan
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9093278	N/A	2023/12/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9093165	2023/12/06	2023/12/06	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	9094430	2023/12/06	2023/12/06	Daniel Teclu
Moisture	BAL	9090254	N/A	2023/12/04	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9093164	2023/12/06	2023/12/06	Jonghan Yoon

Bureau Veritas ID: XTU380
Sample ID: SED 102
Matrix: Soil

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9086939	N/A	2023/12/07	Automated Statchk
Hot Water Extractable Boron	ICP	9094067	2023/12/06	2023/12/07	Medhat Nasr
Hexavalent Chromium in Soil by IC	IC/SPEC	9098123	2023/12/07	2023/12/11	Lusine Khachatryan
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9093278	N/A	2023/12/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9093165	2023/12/06	2023/12/06	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	9094430	2023/12/06	2023/12/06	Daniel Teclu
Moisture	BAL	9090254	N/A	2023/12/04	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9093166	2023/12/06	2023/12/06	Jonghan Yoon

Bureau Veritas ID: XTU381
Sample ID: SED 103
Matrix: Soil

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9086939	N/A	2023/12/07	Automated Statchk
Hot Water Extractable Boron	ICP	9093638	2023/12/06	2023/12/06	Jaswinder Kaur
Hexavalent Chromium in Soil by IC	IC/SPEC	9098123	2023/12/07	2023/12/11	Lusine Khachatryan
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9093278	N/A	2023/12/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9093165	2023/12/06	2023/12/06	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	9094046	2023/12/06	2023/12/06	Daniel Teclu
Moisture	BAL	9090254	N/A	2023/12/04	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9093164	2023/12/06	2023/12/06	Jonghan Yoon

Bureau Veritas ID: XTU382
Sample ID: SED 104
Matrix: Soil

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9086939	N/A	2023/12/07	Automated Statchk
Hot Water Extractable Boron	ICP	9094067	2023/12/06	2023/12/07	Medhat Nasr
Hexavalent Chromium in Soil by IC	IC/SPEC	9098123	2023/12/07	2023/12/11	Lusine Khachatryan

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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

TEST SUMMARY

Bureau Veritas ID: XTU382
Sample ID: SED 104
Matrix: Soil

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9093278	N/A	2023/12/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9093165	2023/12/06	2023/12/06	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	9094430	2023/12/06	2023/12/06	Daniel Teclu
Moisture	BAL	9090254	N/A	2023/12/04	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9093166	2023/12/06	2023/12/06	Jonghan Yoon

Bureau Veritas ID: XTU384
Sample ID: QAQC 2
Matrix: Soil

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9086939	N/A	2023/12/07	Automated Statchk
Hot Water Extractable Boron	ICP	9093638	2023/12/06	2023/12/06	Jaswinder Kaur
Hexavalent Chromium in Soil by IC	IC/SPEC	9098123	2023/12/07	2023/12/11	Lusine Khachatryan
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9093278	N/A	2023/12/06	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9093165	2023/12/06	2023/12/06	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	9094046	2023/12/06	2023/12/06	Daniel Teclu
Moisture	BAL	9090254	N/A	2023/12/04	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9093164	2023/12/06	2023/12/06	Jonghan Yoon

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.3°C

Revised report (2024/03/01): Includes O.Reg 153 Table 1 sediment guidelines.

Sample XTU379 [SED 101] : F1/BTEX and F2-F4Analysis: Detection limits were adjusted for high moisture content and sample weight.

PAH Analysis: Detection limits were adjusted for high moisture content.

Hexavalent Chromium: Detection Limits were raised due to high moisture content.

Sample XTU380 [SED 102] : F1/BTEX and F2-F4Analysis: : Detection limits were adjusted for high moisture content and sample weight.
PAH Anaylsis: Detection limits were adjusted for high moisture content.

Hexavalent Chromium: Detection Limits were raised due to high moisture content.

Sample XTU381 [SED 103] : F1/BTEX and F2-F4Analysis: Detection limits were adjusted for high moisture content and sample weight.

PAH Analysis: Detection limits were adjusted for high moisture content.

Hexavalent Chromium: Detection Limits were raised due to high moisture content.

Sample XTU384 [QAQC 2] : F1/BTEX and F2-F4Analysis: Detection limits were adjusted for high moisture content and sample weight.

PAH Analysis: Detection limits were adjusted for high moisture content.

Hexavalent Chromium: Detection Limits were raised due to high moisture content.

Results relate only to the items tested.

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Report Date: 2024/03/01

QUALITY ASSURANCE REPORT

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9093164	D10-Anthracene	2023/12/06	104	50 - 130	107	50 - 130	108	%		
9093164	D14-Terphenyl (FS)	2023/12/06	106	50 - 130	107	50 - 130	106	%		
9093164	D8-Acenaphthylene	2023/12/06	94	50 - 130	97	50 - 130	92	%		
9093165	o-Terphenyl	2023/12/06	93	60 - 130	90	60 - 130	96	%		
9093166	D10-Anthracene	2023/12/06	99	50 - 130	104	50 - 130	109	%		
9093166	D14-Terphenyl (FS)	2023/12/06	105	50 - 130	107	50 - 130	106	%		
9093166	D8-Acenaphthylene	2023/12/06	89	50 - 130	97	50 - 130	94	%		
9093278	1,4-Difluorobenzene	2023/12/06	100	60 - 140	97	60 - 140	97	%		
9093278	4-Bromofluorobenzene	2023/12/06	98	60 - 140	99	60 - 140	98	%		
9093278	D10-o-Xylene	2023/12/06	90	60 - 140	89	60 - 140	90	%		
9093278	D4-1,2-Dichloroethane	2023/12/06	103	60 - 140	103	60 - 140	100	%		
9090254	Moisture	2023/12/04							0.85	20
9093164	1-Methylnaphthalene	2023/12/06	98	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
9093164	2-Methylnaphthalene	2023/12/06	90	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
9093164	Acenaphthene	2023/12/06	98	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
9093164	Acenaphthylene	2023/12/06	94	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
9093164	Anthracene	2023/12/06	100	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
9093164	Benzo(a)anthracene	2023/12/06	101	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
9093164	Benzo(a)pyrene	2023/12/06	93	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
9093164	Benzo(b/j)fluoranthene	2023/12/06	94	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
9093164	Benzo(g,h,i)perylene	2023/12/06	99	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
9093164	Benzo(k)fluoranthene	2023/12/06	95	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
9093164	Chrysene	2023/12/06	99	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
9093164	Dibenzo(a,h)anthracene	2023/12/06	97	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
9093164	Fluoranthene	2023/12/06	101	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
9093164	Fluorene	2023/12/06	97	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
9093164	Indeno(1,2,3-cd)pyrene	2023/12/06	96	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
9093164	Naphthalene	2023/12/06	87	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
9093164	Phenanthrene	2023/12/06	95	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
9093164	Pyrene	2023/12/06	102	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
9093165	F2 (C10-C16 Hydrocarbons)	2023/12/06	96	60 - 130	92	80 - 120	<10	ug/g	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9093165	F3 (C16-C34 Hydrocarbons)	2023/12/06	96	60 - 130	91	80 - 120	<50	ug/g	NC	30
9093165	F4 (C34-C50 Hydrocarbons)	2023/12/06	99	60 - 130	93	80 - 120	<50	ug/g	NC	30
9093166	1-Methylnaphthalene	2023/12/06	97	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40
9093166	2-Methylnaphthalene	2023/12/06	87	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
9093166	Acenaphthene	2023/12/06	94	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
9093166	Acenaphthylene	2023/12/06	89	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
9093166	Anthracene	2023/12/06	93	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
9093166	Benzo(a)anthracene	2023/12/06	99	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
9093166	Benzo(a)pyrene	2023/12/06	93	50 - 130	97	50 - 130	<0.0050	ug/g	NC	40
9093166	Benzo(b/j)fluoranthene	2023/12/06	98	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
9093166	Benzo(g,h,i)perylene	2023/12/06	102	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
9093166	Benzo(k)fluoranthene	2023/12/06	96	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
9093166	Chrysene	2023/12/06	96	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
9093166	Dibenzo(a,h)anthracene	2023/12/06	99	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
9093166	Fluoranthene	2023/12/06	103	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
9093166	Fluorene	2023/12/06	95	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
9093166	Indeno(1,2,3-cd)pyrene	2023/12/06	98	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
9093166	Naphthalene	2023/12/06	78	50 - 130	97	50 - 130	<0.0050	ug/g	NC	40
9093166	Phenanthrene	2023/12/06	93	50 - 130	97	50 - 130	<0.0050	ug/g	NC	40
9093166	Pyrene	2023/12/06	103	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
9093278	Benzene	2023/12/06	86	50 - 140	79	50 - 140	<0.020	ug/g	NC	50
9093278	Ethylbenzene	2023/12/06	92	50 - 140	85	50 - 140	<0.020	ug/g	NC	50
9093278	F1 (C6-C10) - BTEX	2023/12/06					<10	ug/g	NC	30
9093278	F1 (C6-C10)	2023/12/06	84	60 - 140	86	80 - 120	<10	ug/g	NC	30
9093278	o-Xylene	2023/12/06	89	50 - 140	83	50 - 140	<0.020	ug/g	NC	50
9093278	p+m-Xylene	2023/12/06	85	50 - 140	79	50 - 140	<0.040	ug/g	NC	50
9093278	Toluene	2023/12/06	85	50 - 140	77	50 - 140	<0.020	ug/g	NC	50
9093278	Total Xylenes	2023/12/06					<0.040	ug/g	NC	50
9093638	Hot Water Ext. Boron (B)	2023/12/06	114	75 - 125	95	75 - 125	<0.050	ug/g	NC	40
9094046	Acid Extractable Antimony (Sb)	2023/12/06	107	75 - 125	104	80 - 120	<0.20	ug/g	NC	30
9094046	Acid Extractable Arsenic (As)	2023/12/06	103	75 - 125	102	80 - 120	<1.0	ug/g	7.1	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9094046	Acid Extractable Barium (Ba)	2023/12/06	112	75 - 125	105	80 - 120	<0.50	ug/g	2.6	30
9094046	Acid Extractable Beryllium (Be)	2023/12/06	103	75 - 125	103	80 - 120	<0.20	ug/g	1.3	30
9094046	Acid Extractable Boron (B)	2023/12/06	100	75 - 125	102	80 - 120	<5.0	ug/g	5.6	30
9094046	Acid Extractable Cadmium (Cd)	2023/12/06	104	75 - 125	100	80 - 120	<0.10	ug/g	5.9	30
9094046	Acid Extractable Chromium (Cr)	2023/12/06	105	75 - 125	100	80 - 120	<1.0	ug/g	1.6	30
9094046	Acid Extractable Cobalt (Co)	2023/12/06	100	75 - 125	98	80 - 120	<0.10	ug/g	0.19	30
9094046	Acid Extractable Copper (Cu)	2023/12/06	103	75 - 125	101	80 - 120	<0.50	ug/g	3.5	30
9094046	Acid Extractable Lead (Pb)	2023/12/06	96	75 - 125	98	80 - 120	<1.0	ug/g	29	30
9094046	Acid Extractable Mercury (Hg)	2023/12/06	96	75 - 125	90	80 - 120	<0.050	ug/g		
9094046	Acid Extractable Molybdenum (Mo)	2023/12/06	105	75 - 125	98	80 - 120	<0.50	ug/g	NC	30
9094046	Acid Extractable Nickel (Ni)	2023/12/06	101	75 - 125	99	80 - 120	<0.50	ug/g	3.7	30
9094046	Acid Extractable Selenium (Se)	2023/12/06	106	75 - 125	100	80 - 120	<0.50	ug/g	NC	30
9094046	Acid Extractable Silver (Ag)	2023/12/06	102	75 - 125	97	80 - 120	<0.20	ug/g	NC	30
9094046	Acid Extractable Thallium (Tl)	2023/12/06	104	75 - 125	101	80 - 120	<0.050	ug/g	6.7	30
9094046	Acid Extractable Uranium (U)	2023/12/06	105	75 - 125	98	80 - 120	<0.050	ug/g	3.4	30
9094046	Acid Extractable Vanadium (V)	2023/12/06	106	75 - 125	99	80 - 120	<5.0	ug/g	2.6	30
9094046	Acid Extractable Zinc (Zn)	2023/12/06	NC	75 - 125	100	80 - 120	<5.0	ug/g	2.0	30
9094067	Hot Water Ext. Boron (B)	2023/12/07	87	75 - 125	109	75 - 125	<0.050	ug/g	3.2	40
9094430	Acid Extractable Antimony (Sb)	2023/12/06	91	75 - 125	104	80 - 120	<0.20	ug/g	NC	30
9094430	Acid Extractable Arsenic (As)	2023/12/06	99	75 - 125	103	80 - 120	<1.0	ug/g	3.9	30
9094430	Acid Extractable Barium (Ba)	2023/12/06	NC	75 - 125	104	80 - 120	<0.50	ug/g	0.50	30
9094430	Acid Extractable Beryllium (Be)	2023/12/06	97	75 - 125	99	80 - 120	<0.20	ug/g	11	30
9094430	Acid Extractable Boron (B)	2023/12/06	94	75 - 125	97	80 - 120	<5.0	ug/g	19	30
9094430	Acid Extractable Cadmium (Cd)	2023/12/06	100	75 - 125	99	80 - 120	<0.10	ug/g	NC	30
9094430	Acid Extractable Chromium (Cr)	2023/12/06	97	75 - 125	100	80 - 120	<1.0	ug/g	1.7	30
9094430	Acid Extractable Cobalt (Co)	2023/12/06	94	75 - 125	99	80 - 120	<0.10	ug/g	0.45	30
9094430	Acid Extractable Copper (Cu)	2023/12/06	95	75 - 125	99	80 - 120	<0.50	ug/g	0.64	30
9094430	Acid Extractable Lead (Pb)	2023/12/06	95	75 - 125	100	80 - 120	<1.0	ug/g	2.4	30
9094430	Acid Extractable Mercury (Hg)	2023/12/06	90	75 - 125	94	80 - 120	<0.050	ug/g	NC	30
9094430	Acid Extractable Molybdenum (Mo)	2023/12/06	98	75 - 125	100	80 - 120	<0.50	ug/g	NC	30
9094430	Acid Extractable Nickel (Ni)	2023/12/06	NC	75 - 125	100	80 - 120	<0.50	ug/g	0.59	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9094430	Acid Extractable Selenium (Se)	2023/12/06	98	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
9094430	Acid Extractable Silver (Ag)	2023/12/06	97	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
9094430	Acid Extractable Thallium (Tl)	2023/12/06	98	75 - 125	104	80 - 120	<0.050	ug/g	5.3	30
9094430	Acid Extractable Uranium (U)	2023/12/06	99	75 - 125	101	80 - 120	<0.050	ug/g	3.8	30
9094430	Acid Extractable Vanadium (V)	2023/12/06	NC	75 - 125	100	80 - 120	<5.0	ug/g	0.63	30
9094430	Acid Extractable Zinc (Zn)	2023/12/06	NC	75 - 125	100	80 - 120	<5.0	ug/g	0.074	30
9098123	Chromium (VI)	2023/12/11	55 (1)	70 - 130	95	80 - 120	<0.18	ug/g	NC	35

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).

(1) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The sample was reanalyzed with the same results.

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

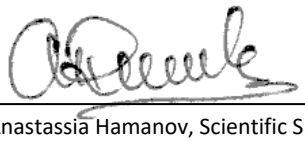
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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

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 Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#17950 Cambium Environmental Inc	Company Name:	Cambium Inc.	Quotation #:	C26318	Bureau Veritas Job #:	Bottle Order #:
Attention:	ACCOUNTS PAYABLE	Attention:	Sharif Nawyaz and Derik Tam	P.O. #:			966663
Address:	194 Sophia Street PO Box 325 Peterborough ON K9H 1E5	Address:		Project:	14455-004	COC #:	Project Manager:
Tel:	(705) 742-7900 Fax: (705) 742-7907	Tel:	derik.tam@cambium-inc.com	Project Name:		C#966663-01-01	Christine Gripton
Email:	accounting@cambium-inc.com	Email:	sharif.nawyaz@cambium-inc.com	Site #:			
				Sampled By:	Kulpreet Randhawa J		

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)
- [x] Table 1 [x] Res/Park [ ] Medium/Fine
- [ ] Table 2 [x] Ind/Comm [x] Coarse
- [ ] Table 3 [ ] Agri/Other [x] For RSC
- [ ] Table ___

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558. [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO [ ] Reg 406 Table ___
- [ ] Other ___

Special Instructions: EDDS Reqd.

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

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

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

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

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 PHCs, BTEX/F1-F4 (Soil)	O.Reg 153 PAHs (Soil)	O.Reg 153 Metals Package (Soil)	# of Bottles	Comments
1		SED 101	2023/11/30	15:50	SED/Soil		✓	✓	✓	4	
2		SED 102		14:40			✓	✓	✓	4	
3		SED 103		13:45			✓	✓	✓	4	
4		SED 104		12:55			✓	✓	✓	4	
5		SED 105		12:30			✓	✓	✓	4	onhold.
6		QAQC 2					✓	✓	✓	4	
7											
8											
9											
10											

01-Dec-23 13:55
Christine Gripton
C3AS695
BDZ ENV 1227

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
J. [illegible] Kulpreet J	2023/12/01		Rupinder PAWAR	2023/12/01	13:55		Time Sensitive	Temperature (°C) on Recei 7/6/9	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
4720168

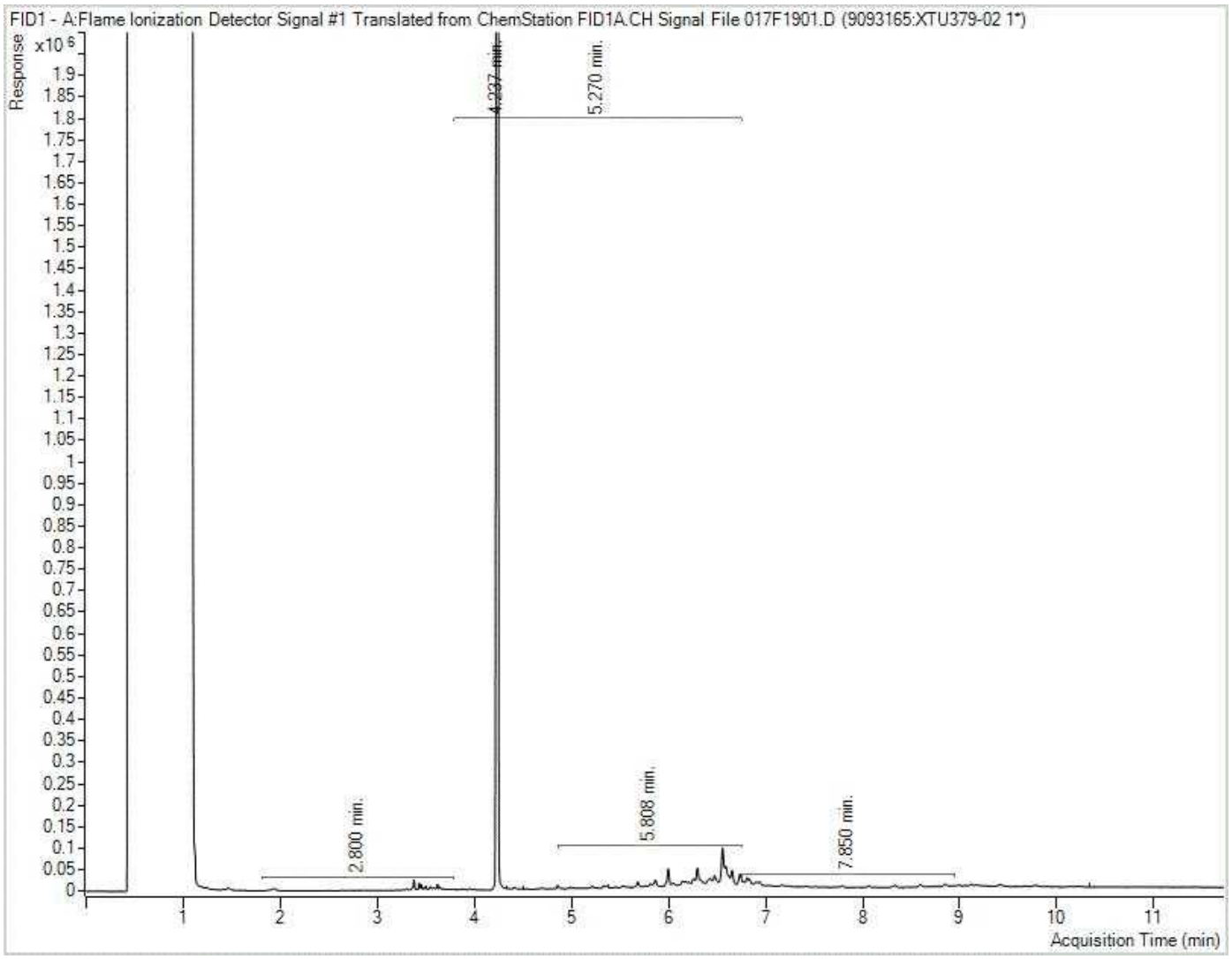
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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01
Bureau Veritas Sample: XTU379

Cambium Environmental Inc
Client Project #: 14455-004
Client ID: SED 101

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



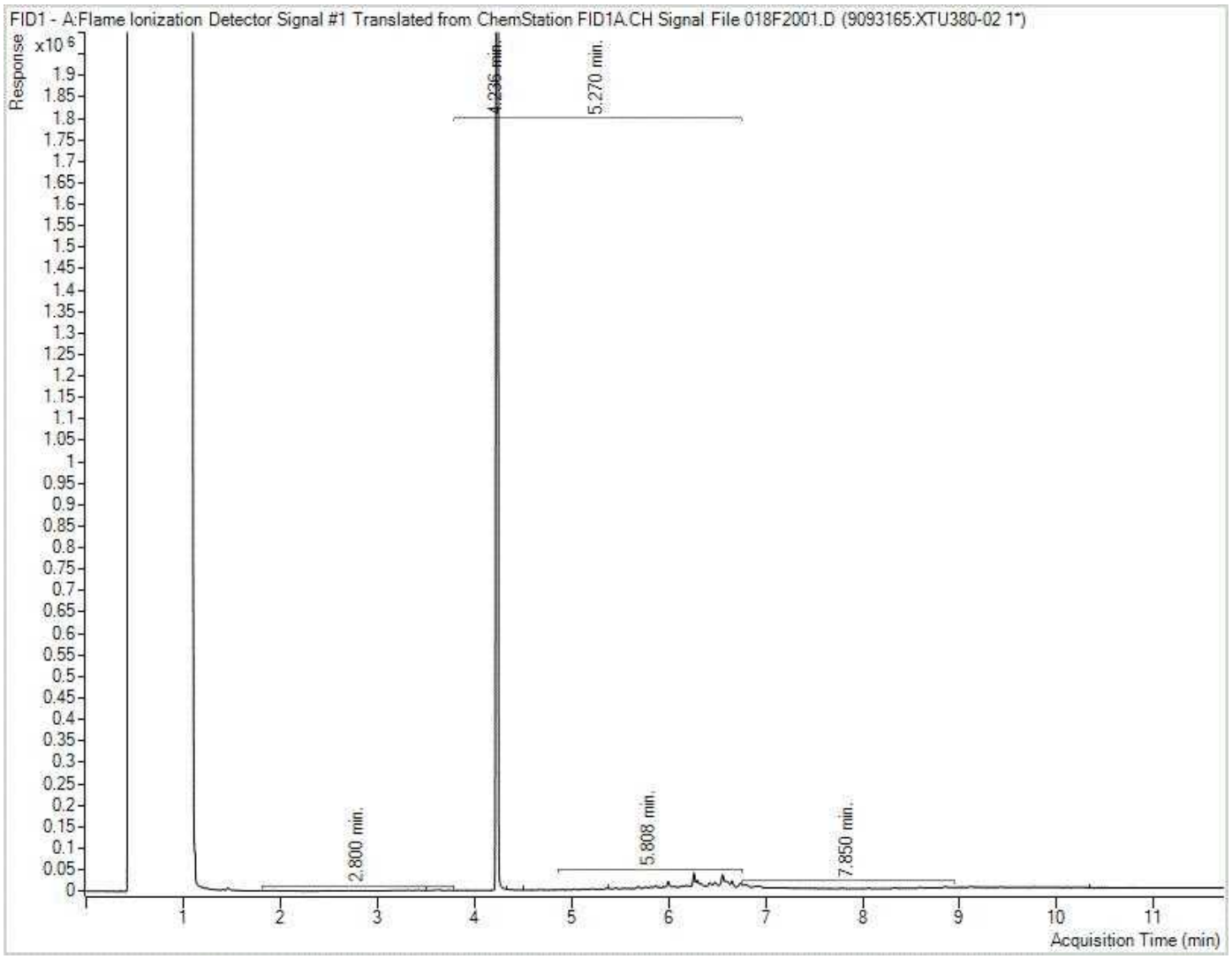
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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01
Bureau Veritas Sample: XTU380

Cambium Environmental Inc
Client Project #: 14455-004
Client ID: SED 102

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



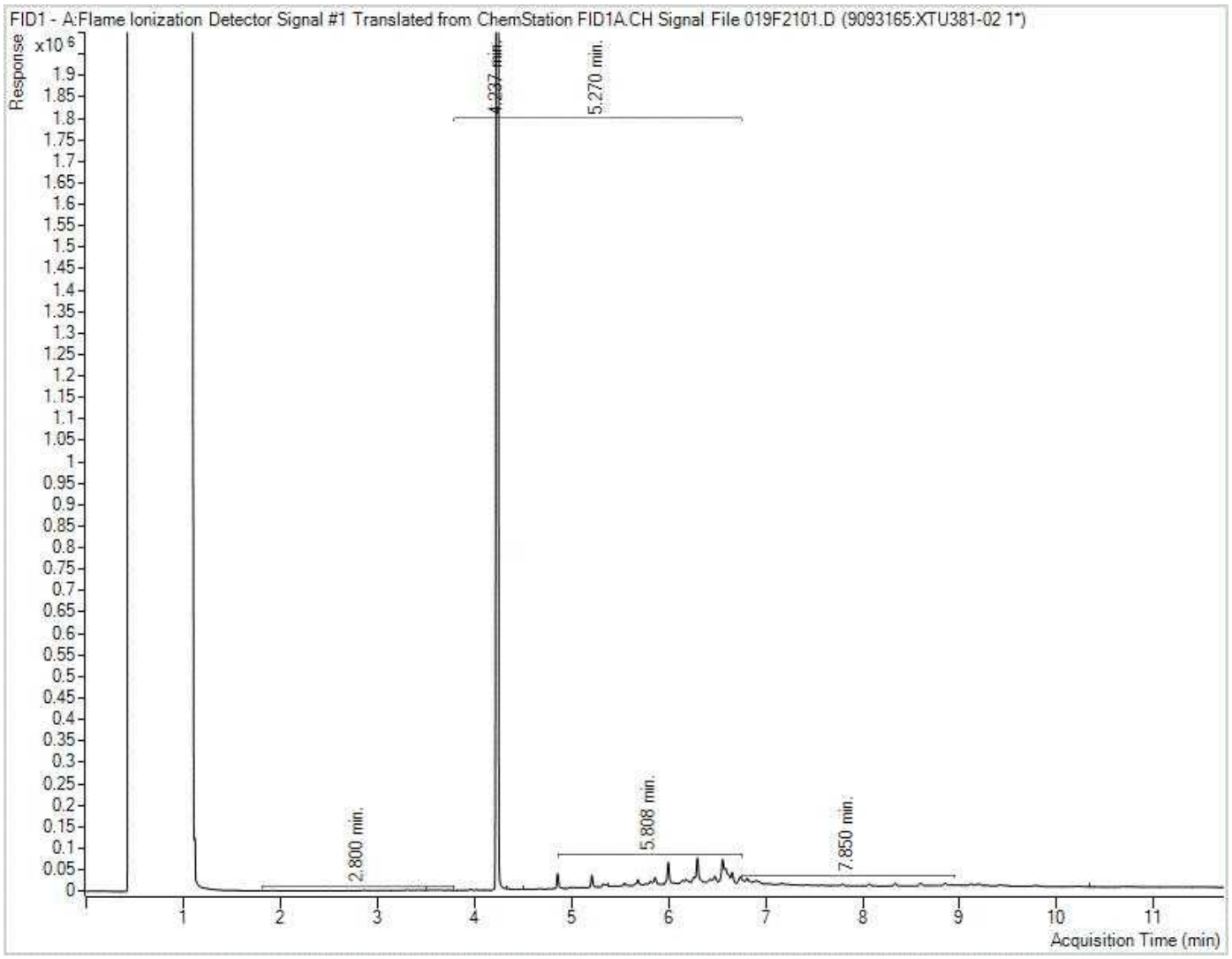
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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01
Bureau Veritas Sample: XTU381

Cambium Environmental Inc
Client Project #: 14455-004
Client ID: SED 103

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



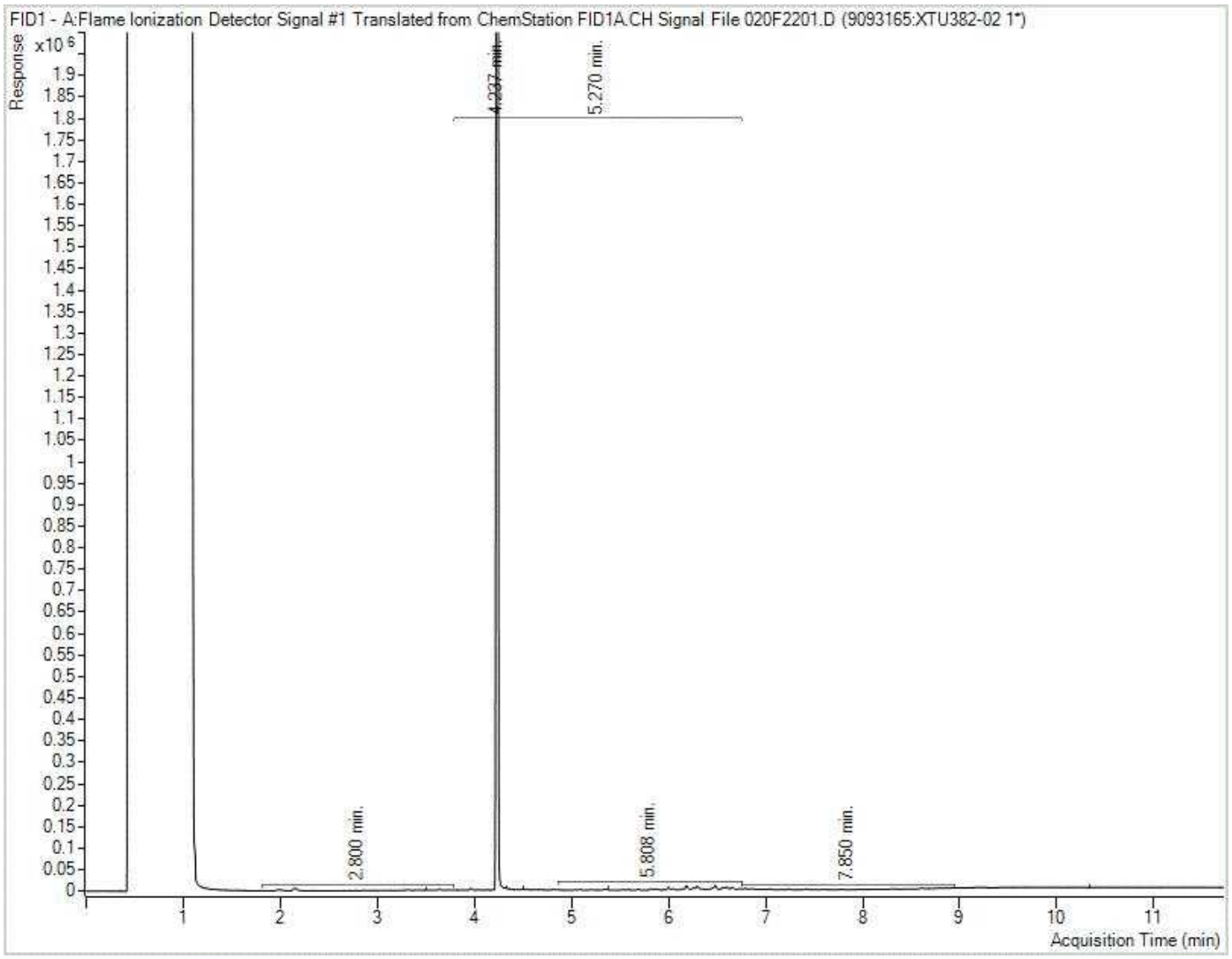
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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01
Bureau Veritas Sample: XTU382

Cambium Environmental Inc
Client Project #: 14455-004
Client ID: SED 104

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



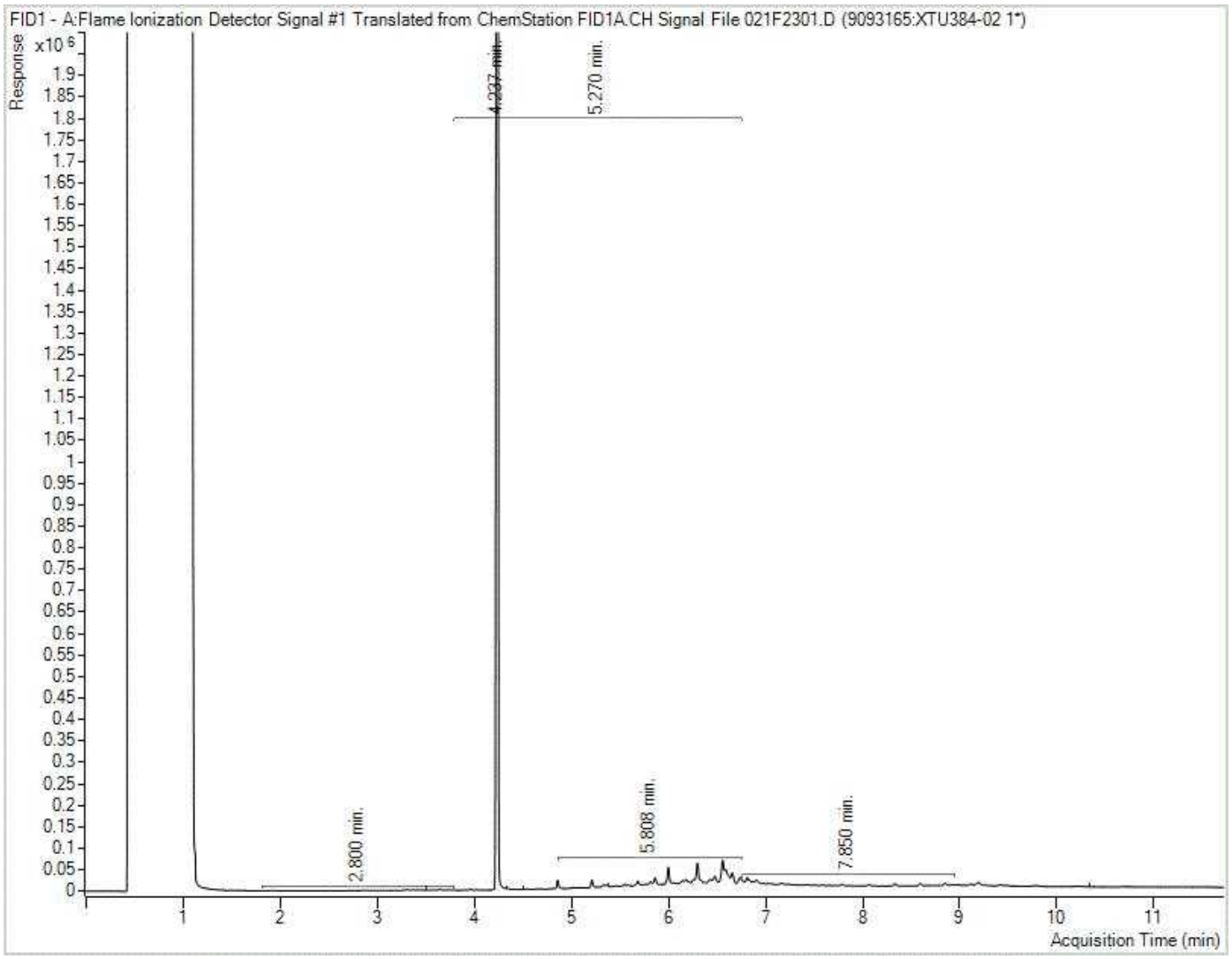
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01
Bureau Veritas Sample: XTU384

Cambium Environmental Inc
Client Project #: 14455-004
Client ID: QAQC 2

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.

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Bureau Veritas Job #: C3AS695
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

Exceedance Summary Table – Reg153/04 T1-Sediment

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
SED 101	XTU379-01	Acid Extractable Copper (Cu)	16	17	0.50	ug/g
SED 101	XTU379-01	Acid Extractable Nickel (Ni)	16	29	0.50	ug/g
SED 101	XTU379-01	Acid Extractable Zinc (Zn)	120	160	5.0	ug/g
SED 102	XTU380-01	Acid Extractable Copper (Cu)	16	19	0.50	ug/g
SED 102	XTU380-01	Acid Extractable Nickel (Ni)	16	30	0.50	ug/g
SED 102	XTU380-01	Acid Extractable Zinc (Zn)	120	150	5.0	ug/g
SED 103	XTU381-01	Acid Extractable Arsenic (As)	6	6.2	1.0	ug/g
SED 103	XTU381-01	Acid Extractable Chromium (Cr)	26	28	1.0	ug/g
SED 103	XTU381-01	Acid Extractable Copper (Cu)	16	25	0.50	ug/g
SED 103	XTU381-01	Acid Extractable Nickel (Ni)	16	33	0.50	ug/g
SED 103	XTU381-01	Acid Extractable Zinc (Zn)	120	260	5.0	ug/g
SED 104	XTU382-01	Acid Extractable Copper (Cu)	16	29	0.50	ug/g
SED 104	XTU382-01	Acid Extractable Nickel (Ni)	16	25	0.50	ug/g
QAQC 2	XTU384-01	Acid Extractable Arsenic (As)	6	7.1	1.0	ug/g
QAQC 2	XTU384-01	Acid Extractable Chromium (Cr)	26	29	1.0	ug/g
QAQC 2	XTU384-01	Acid Extractable Copper (Cu)	16	26	0.50	ug/g
QAQC 2	XTU384-01	Acid Extractable Nickel (Ni)	16	34	0.50	ug/g
QAQC 2	XTU384-01	Acid Extractable Zinc (Zn)	120	280	5.0	ug/g

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

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

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Your Project #: 14455-002
Your C.O.C. #: 899233-25-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2023/02/10
Report #: R7504288
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C330669
Received: 2023/02/01, 15:41

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	5	N/A	2023/02/07	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	6	N/A	2023/02/06		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1)	5	2023/02/06	2023/02/06	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	4	N/A	2023/02/03	CAM SOP-00447	EPA 6020B m
OC Pesticides (Selected) & PCB (2)	1	2023/02/08	2023/02/09	CAM SOP-00307	EPA 8081B/ 8082A
OC Pesticides Summed Parameters	1	N/A	2023/02/03	CAM SOP-00307	EPA 8081B/ 8082A
PAH Compounds in Water by GC/MS (SIM)	5	2023/02/06	2023/02/07	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs	6	N/A	2023/02/05	CAM SOP-00230	EPA 8260C m

Remarks:

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

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas 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

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CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C330669

Received: 2023/02/01, 15:41

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.
(2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Gemarie Balatico, Project Manager
Email: Gemarie.Balatico@bureauveritas.com
Phone# (905)817-5787

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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.

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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			UYL964		
Sampling Date			2023/02/01		
COC Number			899233-25-01		
	UNITS	Criteria	TRIP BLANK	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	0.50	8485250
Volatile Organics					
Acetone (2-Propanone)	ug/L	2700	<10	10	8483329
Benzene	ug/L	0.5	<0.17	0.17	8483329
Bromodichloromethane	ug/L	2	<0.50	0.50	8483329
Bromoform	ug/L	5.0	<1.0	1.0	8483329
Bromomethane	ug/L	0.89	<0.50	0.50	8483329
Carbon Tetrachloride	ug/L	0.2	<0.20	0.20	8483329
Chlorobenzene	ug/L	0.5	<0.20	0.20	8483329
Chloroform	ug/L	2	<0.20	0.20	8483329
Dibromochloromethane	ug/L	2	<0.50	0.50	8483329
1,2-Dichlorobenzene	ug/L	0.5	<0.50	0.50	8483329
1,3-Dichlorobenzene	ug/L	0.5	<0.50	0.50	8483329
1,4-Dichlorobenzene	ug/L	0.5	<0.50	0.50	8483329
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	1.0	8483329
1,1-Dichloroethane	ug/L	0.5	<0.20	0.20	8483329
1,2-Dichloroethane	ug/L	0.5	<0.50	0.50	8483329
1,1-Dichloroethylene	ug/L	0.5	<0.20	0.20	8483329
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	8483329
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	8483329
1,2-Dichloropropane	ug/L	0.5	<0.20	0.20	8483329
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	0.30	8483329
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	0.40	8483329
Ethylbenzene	ug/L	0.5	<0.20	0.20	8483329
Ethylene Dibromide	ug/L	0.2	<0.20	0.20	8483329
Hexane	ug/L	5	<1.0	1.0	8483329
Methylene Chloride(Dichloromethane)	ug/L	5	<2.0	2.0	8483329
Methyl Ethyl Ketone (2-Butanone)	ug/L	400	<10	10	8483329
Methyl Isobutyl Ketone	ug/L	640	<5.0	5.0	8483329
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	0.50	8483329

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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

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

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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			UYL964		
Sampling Date			2023/02/01		
COC Number			899233-25-01		
	UNITS	Criteria	TRIP BLANK	RDL	QC Batch
Styrene	ug/L	0.5	<0.50	0.50	8483329
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	0.50	8483329
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	0.50	8483329
Tetrachloroethylene	ug/L	0.5	<0.20	0.20	8483329
Toluene	ug/L	0.8	<0.20	0.20	8483329
1,1,1-Trichloroethane	ug/L	0.5	<0.20	0.20	8483329
1,1,2-Trichloroethane	ug/L	0.5	<0.50	0.50	8483329
Trichloroethylene	ug/L	0.5	<0.20	0.20	8483329
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	0.50	8483329
Vinyl Chloride	ug/L	0.5	<0.20	0.20	8483329
p+m-Xylene	ug/L	-	<0.20	0.20	8483329
o-Xylene	ug/L	-	<0.20	0.20	8483329
Total Xylenes	ug/L	72	<0.20	0.20	8483329
F1 (C6-C10)	ug/L	420	<25	25	8483329
F1 (C6-C10) - BTEX	ug/L	420	<25	25	8483329
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	-	96		8483329
D4-1,2-Dichloroethane	%	-	104		8483329
D8-Toluene	%	-	95		8483329

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

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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

O.REG 153 DISSOLVED ICPMS METALS (WATER)

Bureau Veritas ID			UYL959	UYL961		UYL962		UYL963		
Sampling Date			2023/02/01 13:30	2023/02/01 12:30		2023/02/01 11:30		2023/02/01 12:30		
COC Number			899233-25-01	899233-25-01		899233-25-01		899233-25-01		
	UNITS	Criteria	BH104	BH108	RDL	BH111	RDL	QAQC103	RDL	QC Batch
Metals										
Dissolved Antimony (Sb)	ug/L	1.5	<0.50	<0.50	0.50	**2.0**	0.50	<0.50	0.50	8485351
Dissolved Arsenic (As)	ug/L	13	<1.0	<1.0	1.0	8.1	1.0	<1.0	1.0	8485351
Dissolved Barium (Ba)	ug/L	610	27	16	2.0	15	2.0	15	2.0	8485351
Dissolved Beryllium (Be)	ug/L	0.5	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	8485351
Dissolved Boron (B)	ug/L	1700	200	310	10	810	10	310	10	8485351
Dissolved Cadmium (Cd)	ug/L	0.5	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	8485351
Dissolved Chromium (Cr)	ug/L	11	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	8485351
Dissolved Cobalt (Co)	ug/L	3.8	0.60	<0.50	0.50	1.5	0.50	<0.50	0.50	8485351
Dissolved Copper (Cu)	ug/L	5	1.5	1.2	0.90	1.1	0.90	1.1	0.90	8485351
Dissolved Lead (Pb)	ug/L	1.9	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	8485351
Dissolved Molybdenum (Mo)	ug/L	23	4.6	1.8	0.50	**210**	0.50	1.6	0.50	8485351
Dissolved Nickel (Ni)	ug/L	14	4.7	1.6	1.0	2.5	1.0	1.5	1.0	8485351
Dissolved Selenium (Se)	ug/L	5	**8.2**	<2.0	2.0	**17**	2.0	<2.0	2.0	8485351
Dissolved Silver (Ag)	ug/L	0.3	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	8485351
Dissolved Sodium (Na)	ug/L	490000	76000	57000	100	**1200000**	500	54000	100	8485351
Dissolved Thallium (Tl)	ug/L	0.5	<0.050	<0.050	0.050	0.13	0.050	<0.050	0.050	8485351
Dissolved Uranium (U)	ug/L	8.9	**9.4**	5.8	0.10	**140**	0.10	5.7	0.10	8485351
Dissolved Vanadium (V)	ug/L	3.9	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	8485351
Dissolved Zinc (Zn)	ug/L	160	<5.0	<5.0	5.0	5.3	5.0	<5.0	5.0	8485351

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID			UYL959		
Sampling Date			2023/02/01 13:30		
COC Number			899233-25-01		
	UNITS	Criteria	BH104	RDL	QC Batch
Calculated Parameters					
Chlordane (Total)	ug/L	-	<0.005	0.005	8481368
o,p-DDD + p,p-DDD	ug/L	-	<0.005	0.005	8481368
o,p-DDE + p,p-DDE	ug/L	-	<0.005	0.005	8481368
o,p-DDT + p,p-DDT	ug/L	-	<0.005	0.005	8481368
Total Endosulfan	ug/L	-	<0.005	0.005	8481368
Total PCB	ug/L	0.2	<0.05	0.05	8481368
Pesticides & Herbicides					
Aldrin	ug/L	0.01	<0.005	0.005	8492654
Dieldrin	ug/L	0.05	<0.005	0.005	8492654
a-Chlordane	ug/L	0.06	<0.005	0.005	8492654
g-Chlordane	ug/L	0.06	<0.005	0.005	8492654
o,p-DDD	ug/L	1.8	<0.005	0.005	8492654
p,p-DDD	ug/L	1.8	<0.005	0.005	8492654
o,p-DDE	ug/L	10	<0.005	0.005	8492654
p,p-DDE	ug/L	10	<0.005	0.005	8492654
o,p-DDT	ug/L	0.05	<0.005	0.005	8492654
p,p-DDT	ug/L	0.05	<0.005	0.005	8492654
Lindane	ug/L	0.01	<0.003	0.003	8492654
Endosulfan I (alpha)	ug/L	0.05	<0.005	0.005	8492654
Endosulfan II (beta)	ug/L	0.05	<0.005	0.005	8492654
Endrin	ug/L	0.05	<0.005	0.005	8492654
Heptachlor	ug/L	0.01	<0.005	0.005	8492654
Heptachlor epoxide	ug/L	0.01	<0.005	0.005	8492654
Hexachlorobenzene	ug/L	0.01	<0.005	0.005	8492654
Hexachlorobutadiene	ug/L	0.01	<0.009	0.009	8492654
Hexachloroethane	ug/L	0.01	<0.01	0.01	8492654
Methoxychlor	ug/L	0.05	<0.01	0.01	8492654
Aroclor 1242	ug/L	-	<0.05	0.05	8492654
Aroclor 1248	ug/L	-	<0.05	0.05	8492654

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Black	Exceeds both criteria/levels

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QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
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Bureau Veritas Job #: C330669
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Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID			UYL959		
Sampling Date			2023/02/01 13:30		
COC Number			899233-25-01		
	UNITS	**Criteria**	**BH104**	**RDL**	**QC Batch**
Aroclor 1254	ug/L	-	<0.05	0.05	8492654
Aroclor 1260	ug/L	-	<0.05	0.05	8492654
Surrogate Recovery (%)					
2,4,5,6-Tetrachloro-m-xylene	%	-	62		8492654
Decachlorobiphenyl	%	-	92		8492654

No Fill	No Exceedance
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Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

O.REG 153 PAHS (WATER)

Bureau Veritas ID			UYL959		UYL960			UYL960		
Sampling Date			2023/02/01 13:30		2023/02/01 14:00			2023/02/01 14:00		
COC Number			899233-25-01		899233-25-01			899233-25-01		
	UNITS	Criteria	BH104	QC Batch	BH105	RDL	QC Batch	BH105 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/L	2	<0.071	8480819	<0.071	0.071	8482998			
Polyaromatic Hydrocarbons										
Benzo(e)pyrene	ug/L	-	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Acenaphthene	ug/L	4.1	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Acenaphthylene	ug/L	1	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Anthracene	ug/L	0.1	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Benzo(a)anthracene	ug/L	0.2	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Benzo(a)pyrene	ug/L	0.01	<0.0090	8488393	<0.0090	0.0090	8488393	<0.0090	0.0090	8488393
Benzo(b/j)fluoranthene	ug/L	0.1	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Benzo(g,h,i)perylene	ug/L	0.2	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Benzo(k)fluoranthene	ug/L	0.1	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Chrysene	ug/L	0.1	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Dibenzo(a,h)anthracene	ug/L	0.2	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Fluoranthene	ug/L	0.4	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Fluorene	ug/L	120	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Indeno(1,2,3-cd)pyrene	ug/L	0.2	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
1-Methylnaphthalene	ug/L	2	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
2-Methylnaphthalene	ug/L	2	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Naphthalene	ug/L	7	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Phenanthrene	ug/L	0.1	<0.030	8488393	<0.030	0.030	8488393	<0.030	0.030	8488393
Pyrene	ug/L	0.2	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Perylene	ug/L	-	<0.050	8488393	<0.050	0.050	8488393	<0.050	0.050	8488393
Surrogate Recovery (%)										
D10-Anthracene	%	-	112	8488393	114		8488393	112		8488393
D14-Terphenyl (FS)	%	-	100	8488393	84		8488393	83		8488393
D8-Acenaphthylene	%	-	96	8488393	96		8488393	96		8488393

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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

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

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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

O.REG 153 PAHS (WATER)

Bureau Veritas ID			UYL961	UYL962	UYL963		
Sampling Date			2023/02/01 12:30	2023/02/01 11:30	2023/02/01 12:30		
COC Number			899233-25-01	899233-25-01	899233-25-01		
	UNITS	Criteria	BH108	BH111	QAQC103	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	2	<0.071	<0.071	<0.071	0.071	8482998
Polyaromatic Hydrocarbons							
Benzo(e)pyrene	ug/L	-	<0.050	<0.050	<0.050	0.050	8488393
Acenaphthene	ug/L	4.1	<0.050	<0.050	<0.050	0.050	8488393
Acenaphthylene	ug/L	1	<0.050	<0.050	<0.050	0.050	8488393
Anthracene	ug/L	0.1	<0.050	<0.050	<0.050	0.050	8488393
Benzo(a)anthracene	ug/L	0.2	<0.050	<0.050	<0.050	0.050	8488393
Benzo(a)pyrene	ug/L	0.01	<0.0090	<0.0090	<0.0090	0.0090	8488393
Benzo(b/j)fluoranthene	ug/L	0.1	<0.050	<0.050	<0.050	0.050	8488393
Benzo(g,h,i)perylene	ug/L	0.2	<0.050	<0.050	<0.050	0.050	8488393
Benzo(k)fluoranthene	ug/L	0.1	<0.050	<0.050	<0.050	0.050	8488393
Chrysene	ug/L	0.1	<0.050	<0.050	<0.050	0.050	8488393
Dibenzo(a,h)anthracene	ug/L	0.2	<0.050	<0.050	<0.050	0.050	8488393
Fluoranthene	ug/L	0.4	<0.050	<0.050	<0.050	0.050	8488393
Fluorene	ug/L	120	<0.050	<0.050	<0.050	0.050	8488393
Indeno(1,2,3-cd)pyrene	ug/L	0.2	<0.050	<0.050	<0.050	0.050	8488393
1-Methylnaphthalene	ug/L	2	<0.050	<0.050	<0.050	0.050	8488393
2-Methylnaphthalene	ug/L	2	<0.050	<0.050	<0.050	0.050	8488393
Naphthalene	ug/L	7	<0.050	<0.050	<0.050	0.050	8488393
Phenanthrene	ug/L	0.1	<0.030	<0.030	<0.030	0.030	8488393
Pyrene	ug/L	0.2	<0.050	<0.050	<0.050	0.050	8488393
Perylene	ug/L	-	<0.050	<0.050	<0.050	0.050	8488393
Surrogate Recovery (%)							
D10-Anthracene	%	-	111	113	116		8488393
D14-Terphenyl (FS)	%	-	106	100	111		8488393
D8-Acenaphthylene	%	-	86	88	90		8488393

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

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

Bureau Veritas ID			UYL959		UYL960			UYL960		
Sampling Date			2023/02/01 13:30		2023/02/01 14:00			2023/02/01 14:00		
COC Number			899233-25-01		899233-25-01			899233-25-01		
	UNITS	Criteria	BH104	QC Batch	BH105	RDL	QC Batch	BH105 Lab-Dup	RDL	QC Batch
Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	8481657	<0.50	0.50	8483555			
Volatile Organics										
Acetone (2-Propanone)	ug/L	2700	<10	8483329	<10	10	8483329			
Benzene	ug/L	0.5	<0.17	8483329	<0.17	0.17	8483329			
Bromodichloromethane	ug/L	2	<0.50	8483329	<0.50	0.50	8483329			
Bromoform	ug/L	5.0	<1.0	8483329	<1.0	1.0	8483329			
Bromomethane	ug/L	0.89	<0.50	8483329	<0.50	0.50	8483329			
Carbon Tetrachloride	ug/L	0.2	<0.20	8483329	<0.20	0.20	8483329			
Chlorobenzene	ug/L	0.5	<0.20	8483329	<0.20	0.20	8483329			
Chloroform	ug/L	2	<0.20	8483329	<0.20	0.20	8483329			
Dibromochloromethane	ug/L	2	<0.50	8483329	<0.50	0.50	8483329			
1,2-Dichlorobenzene	ug/L	0.5	<0.50	8483329	<0.50	0.50	8483329			
1,3-Dichlorobenzene	ug/L	0.5	<0.50	8483329	<0.50	0.50	8483329			
1,4-Dichlorobenzene	ug/L	0.5	<0.50	8483329	<0.50	0.50	8483329			
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	8483329	<1.0	1.0	8483329			
1,1-Dichloroethane	ug/L	0.5	<0.20	8483329	<0.20	0.20	8483329			
1,2-Dichloroethane	ug/L	0.5	<0.50	8483329	<0.50	0.50	8483329			
1,1-Dichloroethylene	ug/L	0.5	<0.20	8483329	<0.20	0.20	8483329			
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	8483329	<0.50	0.50	8483329			
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	8483329	<0.50	0.50	8483329			
1,2-Dichloropropane	ug/L	0.5	<0.20	8483329	<0.20	0.20	8483329			
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	8483329	<0.30	0.30	8483329			
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	8483329	<0.40	0.40	8483329			
Ethylbenzene	ug/L	0.5	<0.20	8483329	<0.20	0.20	8483329			
Ethylene Dibromide	ug/L	0.2	<0.20	8483329	<0.20	0.20	8483329			
Hexane	ug/L	5	<1.0	8483329	<1.0	1.0	8483329			
Methylene Chloride(Dichloromethane)	ug/L	5	<2.0	8483329	<2.0	2.0	8483329			
Methyl Ethyl Ketone (2-Butanone)	ug/L	400	<10	8483329	<10	10	8483329			

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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

Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

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

Bureau Veritas ID			UYL959		UYL960			UYL960		
Sampling Date			2023/02/01 13:30		2023/02/01 14:00			2023/02/01 14:00		
COC Number			899233-25-01		899233-25-01			899233-25-01		
	UNITS	Criteria	BH104	QC Batch	BH105	RDL	QC Batch	BH105 Lab-Dup	RDL	QC Batch
Methyl Isobutyl Ketone	ug/L	640	<5.0	8483329	<5.0	5.0	8483329			
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	8483329	<0.50	0.50	8483329			
Styrene	ug/L	0.5	<0.50	8483329	<0.50	0.50	8483329			
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	8483329	<0.50	0.50	8483329			
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	8483329	<0.50	0.50	8483329			
Tetrachloroethylene	ug/L	0.5	<0.20	8483329	<0.20	0.20	8483329			
Toluene	ug/L	0.8	<0.20	8483329	<0.20	0.20	8483329			
1,1,1-Trichloroethane	ug/L	0.5	<0.20	8483329	<0.20	0.20	8483329			
1,1,2-Trichloroethane	ug/L	0.5	<0.50	8483329	<0.50	0.50	8483329			
Trichloroethylene	ug/L	0.5	<0.20	8483329	<0.20	0.20	8483329			
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	8483329	<0.50	0.50	8483329			
Vinyl Chloride	ug/L	0.5	<0.20	8483329	<0.20	0.20	8483329			
p+m-Xylene	ug/L	-	<0.20	8483329	<0.20	0.20	8483329			
o-Xylene	ug/L	-	<0.20	8483329	<0.20	0.20	8483329			
Total Xylenes	ug/L	72	<0.20	8483329	<0.20	0.20	8483329			
F1 (C6-C10)	ug/L	420	<25	8483329	<25	25	8483329			
F1 (C6-C10) - BTEX	ug/L	420	<25	8483329	<25	25	8483329			
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	8488390	<100	100	8488390	<100	100	8488390
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	8488390	<200	200	8488390	<200	200	8488390
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	8488390	<200	200	8488390	<200	200	8488390
Reached Baseline at C50	ug/L	-	Yes	8488390	Yes		8488390	Yes		8488390
Surrogate Recovery (%)										
o-Terphenyl	%	-	96	8488390	92		8488390	95		8488390
4-Bromofluorobenzene	%	-	96	8483329	94		8483329			
D4-1,2-Dichloroethane	%	-	97	8483329	106		8483329			
D8-Toluene	%	-	94	8483329	91		8483329			

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

RDL = Reportable Detection Limit
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Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

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

Bureau Veritas ID			UYL961	UYL962	UYL963		
Sampling Date			2023/02/01 12:30	2023/02/01 11:30	2023/02/01 12:30		
COC Number			899233-25-01	899233-25-01	899233-25-01		
	UNITS	Criteria	BH108	BH111	QAQC103	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	<0.50	<0.50	0.50	8483555
Volatile Organics							
Acetone (2-Propanone)	ug/L	2700	<10	<10	<10	10	8483329
Benzene	ug/L	0.5	<0.17	<0.17	<0.17	0.17	8483329
Bromodichloromethane	ug/L	2	<0.50	<0.50	<0.50	0.50	8483329
Bromoform	ug/L	5.0	<1.0	<1.0	<1.0	1.0	8483329
Bromomethane	ug/L	0.89	<0.50	<0.50	<0.50	0.50	8483329
Carbon Tetrachloride	ug/L	0.2	<0.20	<0.20	<0.20	0.20	8483329
Chlorobenzene	ug/L	0.5	<0.20	<0.20	<0.20	0.20	8483329
Chloroform	ug/L	2	<0.20	<0.20	<0.20	0.20	8483329
Dibromochloromethane	ug/L	2	<0.50	<0.50	<0.50	0.50	8483329
1,2-Dichlorobenzene	ug/L	0.5	<0.50	<0.50	<0.50	0.50	8483329
1,3-Dichlorobenzene	ug/L	0.5	<0.50	<0.50	<0.50	0.50	8483329
1,4-Dichlorobenzene	ug/L	0.5	<0.50	<0.50	<0.50	0.50	8483329
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	<1.0	<1.0	1.0	8483329
1,1-Dichloroethane	ug/L	0.5	<0.20	<0.20	<0.20	0.20	8483329
1,2-Dichloroethane	ug/L	0.5	<0.50	<0.50	<0.50	0.50	8483329
1,1-Dichloroethylene	ug/L	0.5	<0.20	<0.20	<0.20	0.20	8483329
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	0.50	8483329
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	<0.50	<0.50	0.50	8483329
1,2-Dichloropropane	ug/L	0.5	<0.20	<0.20	<0.20	0.20	8483329
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	<0.30	<0.30	0.30	8483329
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	<0.40	<0.40	0.40	8483329
Ethylbenzene	ug/L	0.5	<0.20	<0.20	<0.20	0.20	8483329
Ethylene Dibromide	ug/L	0.2	<0.20	<0.20	<0.20	0.20	8483329
Hexane	ug/L	5	<1.0	<1.0	<1.0	1.0	8483329
Methylene Chloride(Dichloromethane)	ug/L	5	<2.0	<2.0	<2.0	2.0	8483329
Methyl Ethyl Ketone (2-Butanone)	ug/L	400	<10	<10	<10	10	8483329
Methyl Isobutyl Ketone	ug/L	640	<5.0	<5.0	<5.0	5.0	8483329

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

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

Bureau Veritas ID			UYL961	UYL962	UYL963		
Sampling Date			2023/02/01 12:30	2023/02/01 11:30	2023/02/01 12:30		
COC Number			899233-25-01	899233-25-01	899233-25-01		
	UNITS	Criteria	BH108	BH111	QAQC103	RDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	<0.50	<0.50	0.50	8483329
Styrene	ug/L	0.5	<0.50	<0.50	<0.50	0.50	8483329
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	<0.50	<0.50	0.50	8483329
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	<0.50	<0.50	0.50	8483329
Tetrachloroethylene	ug/L	0.5	<0.20	<0.20	<0.20	0.20	8483329
Toluene	ug/L	0.8	<0.20	<0.20	<0.20	0.20	8483329
1,1,1-Trichloroethane	ug/L	0.5	<0.20	<0.20	<0.20	0.20	8483329
1,1,2-Trichloroethane	ug/L	0.5	<0.50	<0.50	<0.50	0.50	8483329
Trichloroethylene	ug/L	0.5	<0.20	<0.20	<0.20	0.20	8483329
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	<0.50	<0.50	0.50	8483329
Vinyl Chloride	ug/L	0.5	<0.20	<0.20	<0.20	0.20	8483329
p+m-Xylene	ug/L	-	<0.20	<0.20	<0.20	0.20	8483329
o-Xylene	ug/L	-	<0.20	<0.20	<0.20	0.20	8483329
Total Xylenes	ug/L	72	<0.20	<0.20	<0.20	0.20	8483329
F1 (C6-C10)	ug/L	420	<25	<25	<25	25	8483329
F1 (C6-C10) - BTEX	ug/L	420	<25	<25	<25	25	8483329
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	<100	<100	100	8488390
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	<200	<200	200	8488390
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	<200	<200	200	8488390
Reached Baseline at C50	ug/L	-	Yes	Yes	Yes		8488390
Surrogate Recovery (%)							
o-Terphenyl	%	-	96	90	96		8488390
4-Bromofluorobenzene	%	-	95	98	94		8483329
D4-1,2-Dichloroethane	%	-	101	102	106		8483329
D8-Toluene	%	-	93	99	92		8483329

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

TEST SUMMARY

Bureau Veritas ID: UYL959
Sample ID: BH104
Matrix: Water

Collected: 2023/02/01
Shipped:
Received: 2023/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8480819	N/A	2023/02/07	Automated Statchk
1,3-Dichloropropene Sum	CALC	8481657	N/A	2023/02/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8488390	2023/02/06	2023/02/06	Jeevaraj Jeevaratrnam
Dissolved Metals by ICPMS	ICP/MS	8485351	N/A	2023/02/03	Prempal Bhatti
OC Pesticides (Selected) & PCB	GC/ECD	8492654	2023/02/08	2023/02/09	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8481368	N/A	2023/02/03	Automated Statchk
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8488393	2023/02/06	2023/02/07	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8483329	N/A	2023/02/05	Xueming Jiang

Bureau Veritas ID: UYL960
Sample ID: BH105
Matrix: Water

Collected: 2023/02/01
Shipped:
Received: 2023/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8482998	N/A	2023/02/07	Automated Statchk
1,3-Dichloropropene Sum	CALC	8483555	N/A	2023/02/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8488390	2023/02/06	2023/02/06	Jeevaraj Jeevaratrnam
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8488393	2023/02/06	2023/02/07	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8483329	N/A	2023/02/05	Xueming Jiang

Bureau Veritas ID: UYL960 Dup
Sample ID: BH105
Matrix: Water

Collected: 2023/02/01
Shipped:
Received: 2023/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8488390	2023/02/06	2023/02/07	Jeevaraj Jeevaratrnam
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8488393	2023/02/06	2023/02/07	Mitesh Raj

Bureau Veritas ID: UYL961
Sample ID: BH108
Matrix: Water

Collected: 2023/02/01
Shipped:
Received: 2023/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8482998	N/A	2023/02/07	Automated Statchk
1,3-Dichloropropene Sum	CALC	8483555	N/A	2023/02/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8488390	2023/02/06	2023/02/06	Jeevaraj Jeevaratrnam
Dissolved Metals by ICPMS	ICP/MS	8485351	N/A	2023/02/03	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8488393	2023/02/06	2023/02/07	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8483329	N/A	2023/02/05	Xueming Jiang

Bureau Veritas ID: UYL962
Sample ID: BH111
Matrix: Water

Collected: 2023/02/01
Shipped:
Received: 2023/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8482998	N/A	2023/02/07	Automated Statchk

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

Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

TEST SUMMARY

Bureau Veritas ID: UYL962
Sample ID: BH111
Matrix: Water

Collected: 2023/02/01
Shipped:
Received: 2023/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8483555	N/A	2023/02/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8488390	2023/02/06	2023/02/06	Jeevaraj Jeevaratrnam
Dissolved Metals by ICPMS	ICP/MS	8485351	N/A	2023/02/03	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8488393	2023/02/06	2023/02/07	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8483329	N/A	2023/02/05	Xueming Jiang

Bureau Veritas ID: UYL963
Sample ID: QAQC103
Matrix: Water

Collected: 2023/02/01
Shipped:
Received: 2023/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8482998	N/A	2023/02/07	Automated Statchk
1,3-Dichloropropene Sum	CALC	8483555	N/A	2023/02/06	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8488390	2023/02/06	2023/02/06	Jeevaraj Jeevaratrnam
Dissolved Metals by ICPMS	ICP/MS	8485351	N/A	2023/02/03	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8488393	2023/02/06	2023/02/07	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8483329	N/A	2023/02/05	Xueming Jiang

Bureau Veritas ID: UYL964
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2023/02/01
Shipped:
Received: 2023/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8485250	N/A	2023/02/06	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8483329	N/A	2023/02/05	Xueming Jiang

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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.7°C

Results relate only to the items tested.

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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

QUALITY ASSURANCE REPORT

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8483329	4-Bromofluorobenzene	2023/02/04	102	70 - 130	101	70 - 130	98	%		
8483329	D4-1,2-Dichloroethane	2023/02/04	102	70 - 130	96	70 - 130	103	%		
8483329	D8-Toluene	2023/02/04	97	70 - 130	98	70 - 130	92	%		
8488390	o-Terphenyl	2023/02/06	97	60 - 130	97	60 - 130	97	%		
8488393	D10-Anthracene	2023/02/07	105	50 - 130	108	50 - 130	115	%		
8488393	D14-Terphenyl (FS)	2023/02/07	98	50 - 130	99	50 - 130	107	%		
8488393	D8-Acenaphthylene	2023/02/07	89	50 - 130	92	50 - 130	101	%		
8492654	2,4,5,6-Tetrachloro-m-xylene	2023/02/09	50	50 - 130	63	50 - 130	56	%		
8492654	Decachlorobiphenyl	2023/02/09	77	50 - 130	84	50 - 130	78	%		
8483329	1,1,1,2-Tetrachloroethane	2023/02/05	95	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
8483329	1,1,1-Trichloroethane	2023/02/05	98	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
8483329	1,1,2,2-Tetrachloroethane	2023/02/05	95	70 - 130	91	70 - 130	<0.50	ug/L	NC	30
8483329	1,1,2-Trichloroethane	2023/02/05	99	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
8483329	1,1-Dichloroethane	2023/02/05	98	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
8483329	1,1-Dichloroethylene	2023/02/05	97	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
8483329	1,2-Dichlorobenzene	2023/02/05	91	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8483329	1,2-Dichloroethane	2023/02/05	96	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
8483329	1,2-Dichloropropane	2023/02/05	94	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8483329	1,3-Dichlorobenzene	2023/02/05	88	70 - 130	86	70 - 130	<0.50	ug/L	NC	30
8483329	1,4-Dichlorobenzene	2023/02/05	100	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
8483329	Acetone (2-Propanone)	2023/02/05	98	60 - 140	92	60 - 140	<10	ug/L	NC	30
8483329	Benzene	2023/02/05	92	70 - 130	93	70 - 130	<0.17	ug/L	NC	30
8483329	Bromodichloromethane	2023/02/05	97	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
8483329	Bromoform	2023/02/05	97	70 - 130	95	70 - 130	<1.0	ug/L	NC	30
8483329	Bromomethane	2023/02/05	104	60 - 140	103	60 - 140	<0.50	ug/L	NC	30
8483329	Carbon Tetrachloride	2023/02/05	98	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
8483329	Chlorobenzene	2023/02/05	92	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8483329	Chloroform	2023/02/05	100	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
8483329	cis-1,2-Dichloroethylene	2023/02/05	112	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
8483329	cis-1,3-Dichloropropene	2023/02/05	74	70 - 130	71	70 - 130	<0.30	ug/L	NC	30
8483329	Dibromochloromethane	2023/02/05	93	70 - 130	93	70 - 130	<0.50	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8483329	Dichlorodifluoromethane (FREON 12)	2023/02/05	108	60 - 140	116	60 - 140	<1.0	ug/L	NC	30
8483329	Ethylbenzene	2023/02/05	76	70 - 130	80	70 - 130	<0.20	ug/L	NC	30
8483329	Ethylene Dibromide	2023/02/05	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
8483329	F1 (C6-C10) - BTEX	2023/02/05					<25	ug/L	NC	30
8483329	F1 (C6-C10)	2023/02/05	93	60 - 140	89	60 - 140	<25	ug/L	NC	30
8483329	Hexane	2023/02/05	92	70 - 130	92	70 - 130	<1.0	ug/L	NC	30
8483329	Methyl Ethyl Ketone (2-Butanone)	2023/02/05	97	60 - 140	88	60 - 140	<10	ug/L	NC	30
8483329	Methyl Isobutyl Ketone	2023/02/05	80	70 - 130	76	70 - 130	<5.0	ug/L	NC	30
8483329	Methyl t-butyl ether (MTBE)	2023/02/05	85	70 - 130	80	70 - 130	<0.50	ug/L	NC	30
8483329	Methylene Chloride(Dichloromethane)	2023/02/05	116	70 - 130	106	70 - 130	<2.0	ug/L	NC	30
8483329	o-Xylene	2023/02/05	75	70 - 130	79	70 - 130	<0.20	ug/L	NC	30
8483329	p+m-Xylene	2023/02/05	74	70 - 130	79	70 - 130	<0.20	ug/L	NC	30
8483329	Styrene	2023/02/05	81	70 - 130	86	70 - 130	<0.50	ug/L	NC	30
8483329	Tetrachloroethylene	2023/02/05	98	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
8483329	Toluene	2023/02/05	86	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
8483329	Total Xylenes	2023/02/05					<0.20	ug/L	NC	30
8483329	trans-1,2-Dichloroethylene	2023/02/05	105	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
8483329	trans-1,3-Dichloropropene	2023/02/05	75	70 - 130	72	70 - 130	<0.40	ug/L	NC	30
8483329	Trichloroethylene	2023/02/05	107	70 - 130	109	70 - 130	<0.20	ug/L	5.1	30
8483329	Trichlorofluoromethane (FREON 11)	2023/02/05	104	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
8483329	Vinyl Chloride	2023/02/05	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8485351	Dissolved Antimony (Sb)	2023/02/03	107	80 - 120	103	80 - 120	<0.50	ug/L		
8485351	Dissolved Arsenic (As)	2023/02/03	108	80 - 120	100	80 - 120	<1.0	ug/L		
8485351	Dissolved Barium (Ba)	2023/02/03	103	80 - 120	98	80 - 120	<2.0	ug/L	2.5	20
8485351	Dissolved Beryllium (Be)	2023/02/03	101	80 - 120	99	80 - 120	<0.40	ug/L	NC	20
8485351	Dissolved Boron (B)	2023/02/03	NC	80 - 120	99	80 - 120	<10	ug/L	2.0	20
8485351	Dissolved Cadmium (Cd)	2023/02/03	105	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
8485351	Dissolved Chromium (Cr)	2023/02/03	104	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
8485351	Dissolved Cobalt (Co)	2023/02/03	103	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
8485351	Dissolved Copper (Cu)	2023/02/03	104	80 - 120	100	80 - 120	<0.90	ug/L	0.92	20
8485351	Dissolved Lead (Pb)	2023/02/03	103	80 - 120	99	80 - 120	<0.50	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8485351	Dissolved Molybdenum (Mo)	2023/02/03	109	80 - 120	103	80 - 120	<0.50	ug/L	3.6	20
8485351	Dissolved Nickel (Ni)	2023/02/03	103	80 - 120	98	80 - 120	<1.0	ug/L	3.6	20
8485351	Dissolved Selenium (Se)	2023/02/03	107	80 - 120	103	80 - 120	<2.0	ug/L		
8485351	Dissolved Silver (Ag)	2023/02/03	104	80 - 120	102	80 - 120	<0.090	ug/L	NC	20
8485351	Dissolved Sodium (Na)	2023/02/03	NC	80 - 120	95	80 - 120	<100	ug/L	0.55	20
8485351	Dissolved Thallium (Tl)	2023/02/03	105	80 - 120	101	80 - 120	<0.050	ug/L	NC	20
8485351	Dissolved Uranium (U)	2023/02/03	105	80 - 120	100	80 - 120	<0.10	ug/L		
8485351	Dissolved Vanadium (V)	2023/02/03	106	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
8485351	Dissolved Zinc (Zn)	2023/02/03	104	80 - 120	98	80 - 120	<5.0	ug/L	4.6	20
8488390	F2 (C10-C16 Hydrocarbons)	2023/02/07	92	60 - 130	91	60 - 130	<100	ug/L	NC	30
8488390	F3 (C16-C34 Hydrocarbons)	2023/02/07	102	60 - 130	103	60 - 130	<200	ug/L	NC	30
8488390	F4 (C34-C50 Hydrocarbons)	2023/02/07	102	60 - 130	106	60 - 130	<200	ug/L	NC	30
8488393	1-Methylnaphthalene	2023/02/07	69	50 - 130	70	50 - 130	<0.050	ug/L	NC	30
8488393	2-Methylnaphthalene	2023/02/07	69	50 - 130	70	50 - 130	<0.050	ug/L	NC	30
8488393	Acenaphthene	2023/02/07	91	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8488393	Acenaphthylene	2023/02/07	92	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8488393	Anthracene	2023/02/07	98	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8488393	Benzo(a)anthracene	2023/02/07	100	50 - 130	102	50 - 130	<0.050	ug/L	NC	30
8488393	Benzo(a)pyrene	2023/02/07	98	50 - 130	100	50 - 130	<0.0090	ug/L	NC	30
8488393	Benzo(b/j)fluoranthene	2023/02/07	97	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8488393	Benzo(e)pyrene	2023/02/07	99	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
8488393	Benzo(g,h,i)perylene	2023/02/07	122	50 - 130	125	50 - 130	<0.050	ug/L	NC	30
8488393	Benzo(k)fluoranthene	2023/02/07	93	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
8488393	Chrysene	2023/02/07	102	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8488393	Dibenzo(a,h)anthracene	2023/02/07	112	50 - 130	116	50 - 130	<0.050	ug/L	NC	30
8488393	Fluoranthene	2023/02/07	103	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8488393	Fluorene	2023/02/07	94	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
8488393	Indeno(1,2,3-cd)pyrene	2023/02/07	122	50 - 130	125	50 - 130	<0.050	ug/L	NC	30
8488393	Naphthalene	2023/02/07	79	50 - 130	79	50 - 130	<0.050	ug/L	NC	30
8488393	Perylene	2023/02/07	104	50 - 130	106	50 - 130	<0.050	ug/L	NC	40
8488393	Phenanthrene	2023/02/07	98	50 - 130	101	50 - 130	<0.030	ug/L	NC	30

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8488393	Pyrene	2023/02/07	101	50 - 130	103	50 - 130	<0.050	ug/L	NC	30
8492654	a-Chlordane	2023/02/09	83	50 - 130	93	50 - 130	<0.005	ug/L	0.26	30
8492654	Aldrin	2023/02/09	75	50 - 130	82	50 - 130	<0.005	ug/L	2.5	30
8492654	Aroclor 1242	2023/02/09					<0.05	ug/L		
8492654	Aroclor 1248	2023/02/09					<0.05	ug/L		
8492654	Aroclor 1254	2023/02/09					<0.05	ug/L		
8492654	Aroclor 1260	2023/02/09					<0.05	ug/L		
8492654	Dieldrin	2023/02/09	92	50 - 130	102	50 - 130	<0.005	ug/L	2.0	30
8492654	Endosulfan I (alpha)	2023/02/09	93	50 - 130	106	50 - 130	<0.005	ug/L	2.9	30
8492654	Endosulfan II (beta)	2023/02/09	78	50 - 130	88	50 - 130	<0.005	ug/L	1.6	30
8492654	Endrin	2023/02/09	87	50 - 130	96	50 - 130	<0.005	ug/L	2.4	30
8492654	g-Chlordane	2023/02/09	87	50 - 130	94	50 - 130	<0.005	ug/L	1.0	30
8492654	Heptachlor epoxide	2023/02/09	91	50 - 130	98	50 - 130	<0.005	ug/L	0.77	30
8492654	Heptachlor	2023/02/09	82	50 - 130	89	50 - 130	<0.005	ug/L	0.27	30
8492654	Hexachlorobenzene	2023/02/09	77	50 - 130	87	50 - 130	<0.005	ug/L	NC	30
8492654	Hexachlorobutadiene	2023/02/09	66	50 - 130	78	50 - 130	<0.009	ug/L	9.9	30
8492654	Hexachloroethane	2023/02/09	59	50 - 130	65	50 - 130	<0.01	ug/L	5.7	30
8492654	Lindane	2023/02/09	81	50 - 130	90	50 - 130	<0.003	ug/L	0.20	30
8492654	Methoxychlor	2023/02/09	83	50 - 130	95	50 - 130	<0.01	ug/L	0.82	30
8492654	o,p-DDD	2023/02/09	89	50 - 130	98	50 - 130	<0.005	ug/L	3.0	30
8492654	o,p-DDE	2023/02/09	87	50 - 130	89	50 - 130	<0.005	ug/L	4.8	30
8492654	o,p-DDT	2023/02/09	82	50 - 130	89	50 - 130	<0.005	ug/L	3.0	30
8492654	p,p-DDD	2023/02/09	89	50 - 130	101	50 - 130	<0.005	ug/L	1.5	30
8492654	p,p-DDE	2023/02/09	95	50 - 130	107	50 - 130	<0.005	ug/L	2.2	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8492654	p,p-DDT	2023/02/09	89	50 - 130	89	50 - 130	<0.005	ug/L	3.0	30

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

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

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

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

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

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

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

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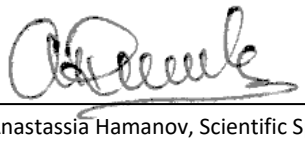
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Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

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

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

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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

CHA

01-Feb-23 15:41
Gemarie Balatico
C330669

Page 1 of 1

Order #:

MUM ENV-1617 COC #: d99233

C#899233-25-01

Project Manager: Gemarie Balatico

INVOICE TO:

Company Name: #17950 Cambium Environmental Inc
Attention: ACCOUNTS PAYABLE
Address: 194 Sophia Street PO Box 325
Peterborough ON K9H 1E5
Tel: (705) 742-7900 Fax: (705) 742-7907
Email: accounting@cambium-inc.com; Evan.Black@cambium-

REPORT TO:

Company Name:
Attention: Sharif Nawyaz; Natalie Wright
Address: Sharif.Nawyaz@cambium-inc.com
Natalie.Wright@cambium-inc.com
Tel: Fax:
Email:

PROJECT INFORMATION:

Quotation #: C21984
P.O. #:
Project: ~~9870-003~~ 14455-002
Project Name:
Site #:
Sampled By: M. Haligowski

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)
- [X] Table 1 [X] Res/Park [ ] Medium/Fine
- [ ] Table 2 [X] 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)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

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

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

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

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals) Hg / Cr VI	O.Reg 153 VOCs by HS & F1-F4 (+BTEX)	O.Reg 153 PAHs (+MS)	O.Reg 153 Metals & Inorganics Pkg (+Hg)	PHC F1-F4	BTEX	PCB/OC PS					# of Bottles	Comments
1		BH104	1-Feb-23	~~11:00~~ 13:30	GW	Y	X	X	X	X	X	X					8	
2		BH105		~~13:30~~ 14:00 **			X	X		X							4	
3		BH108		12:30			X	X	X	X							6	
4		BH111		11:30			X	X	X	X							6	
5		DUP103		12:30			X	X	X								6	
6		Trip Blank					X										1	
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
M. Haligowski	23/02/01	15:40		23/02/01	1541	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: 5 | 4
Custody Seal Present [ ] Intact [ ] — Yes [ ] No [X]

* 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/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/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

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

White: Bureau Veritas Yellow: Client

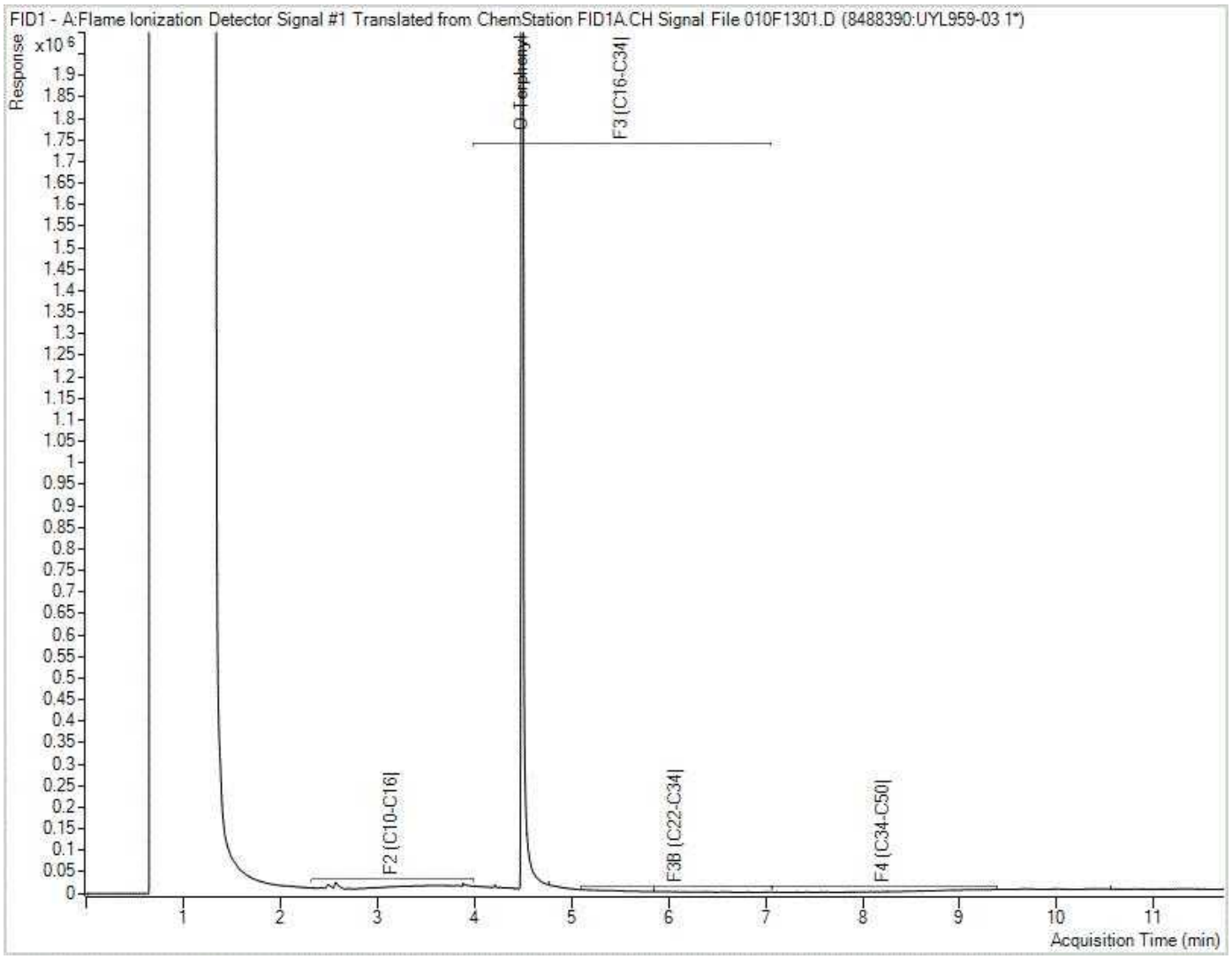
Bureau Veritas Canada (2019) Inc.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C330669
Report Date: 2023/02/10
Bureau Veritas Sample: UYL959

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH104

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



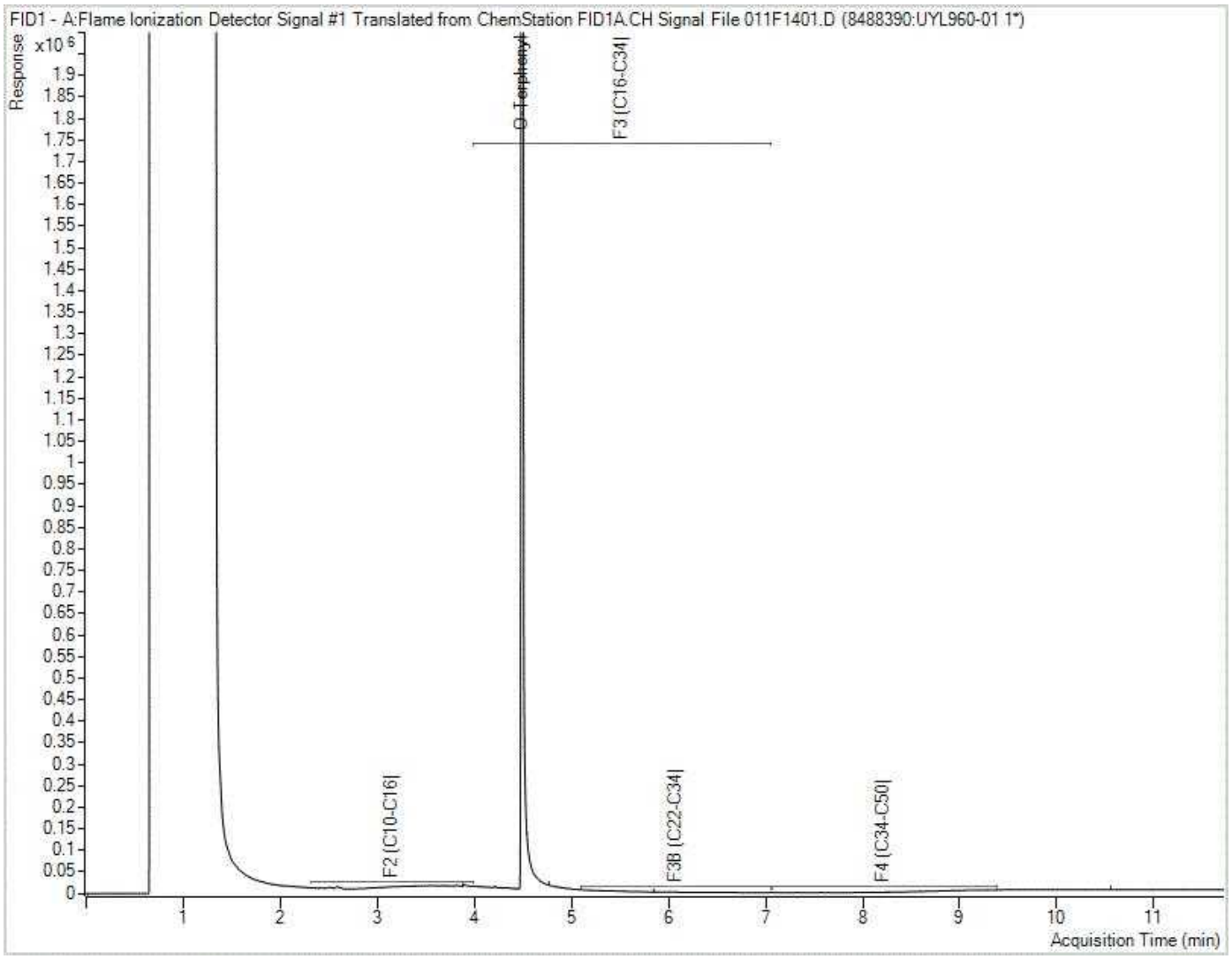
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C330669
Report Date: 2023/02/10
Bureau Veritas Sample: UYL960

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH105

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



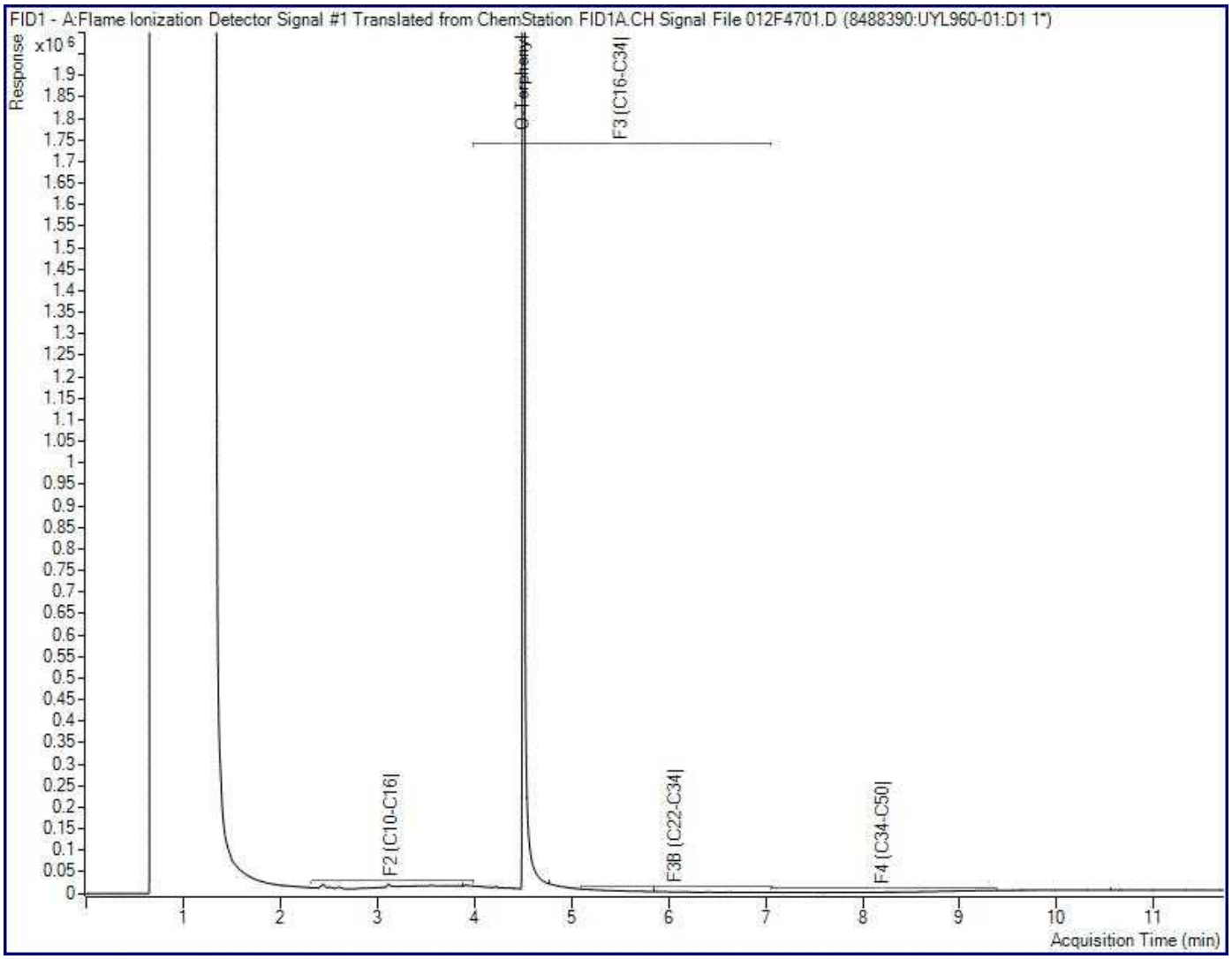
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C330669
Report Date: 2023/02/10
Bureau Veritas Sample: UYL960 Lab-Dup

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH105

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



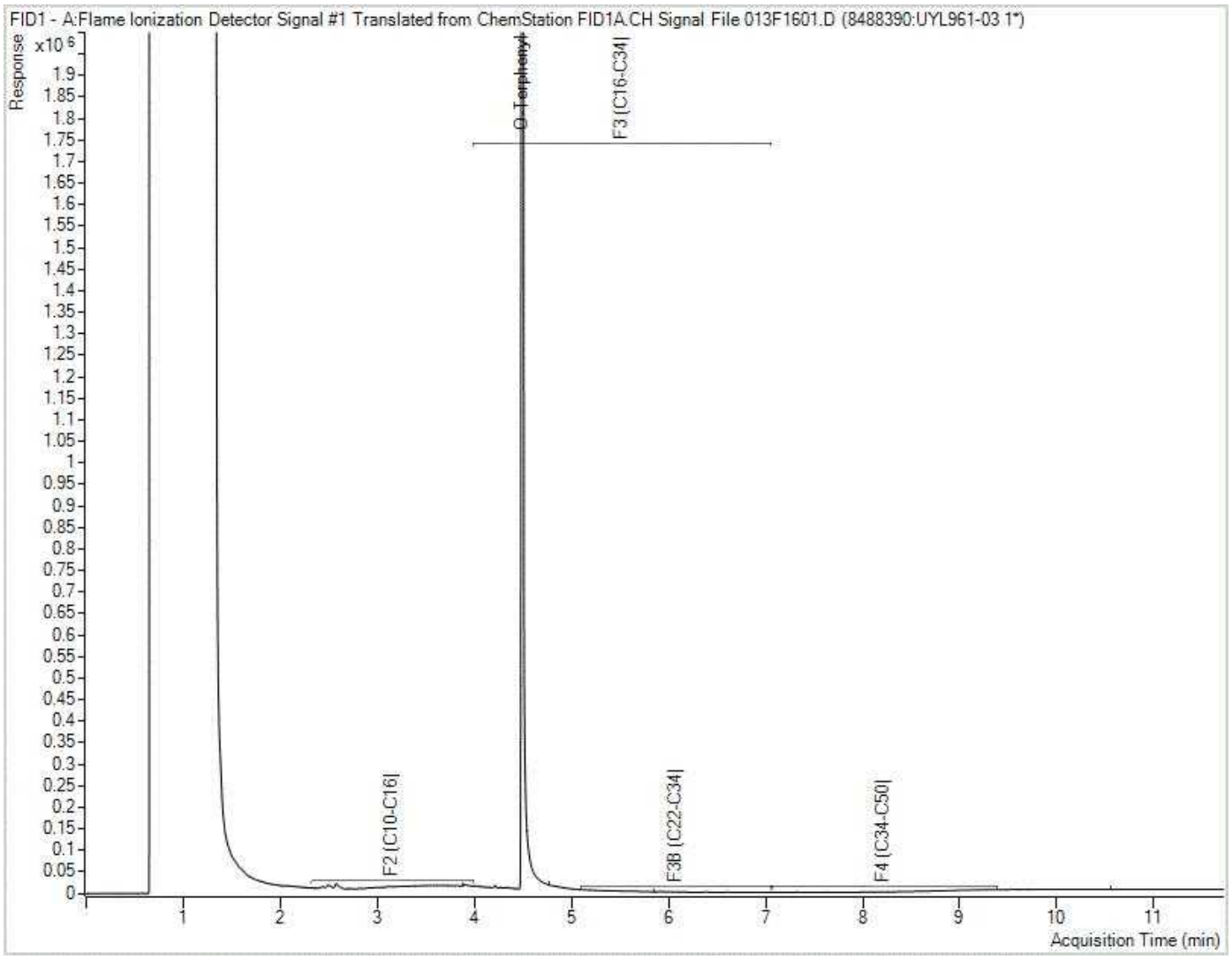
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C330669
Report Date: 2023/02/10
Bureau Veritas Sample: UYL961

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH108

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



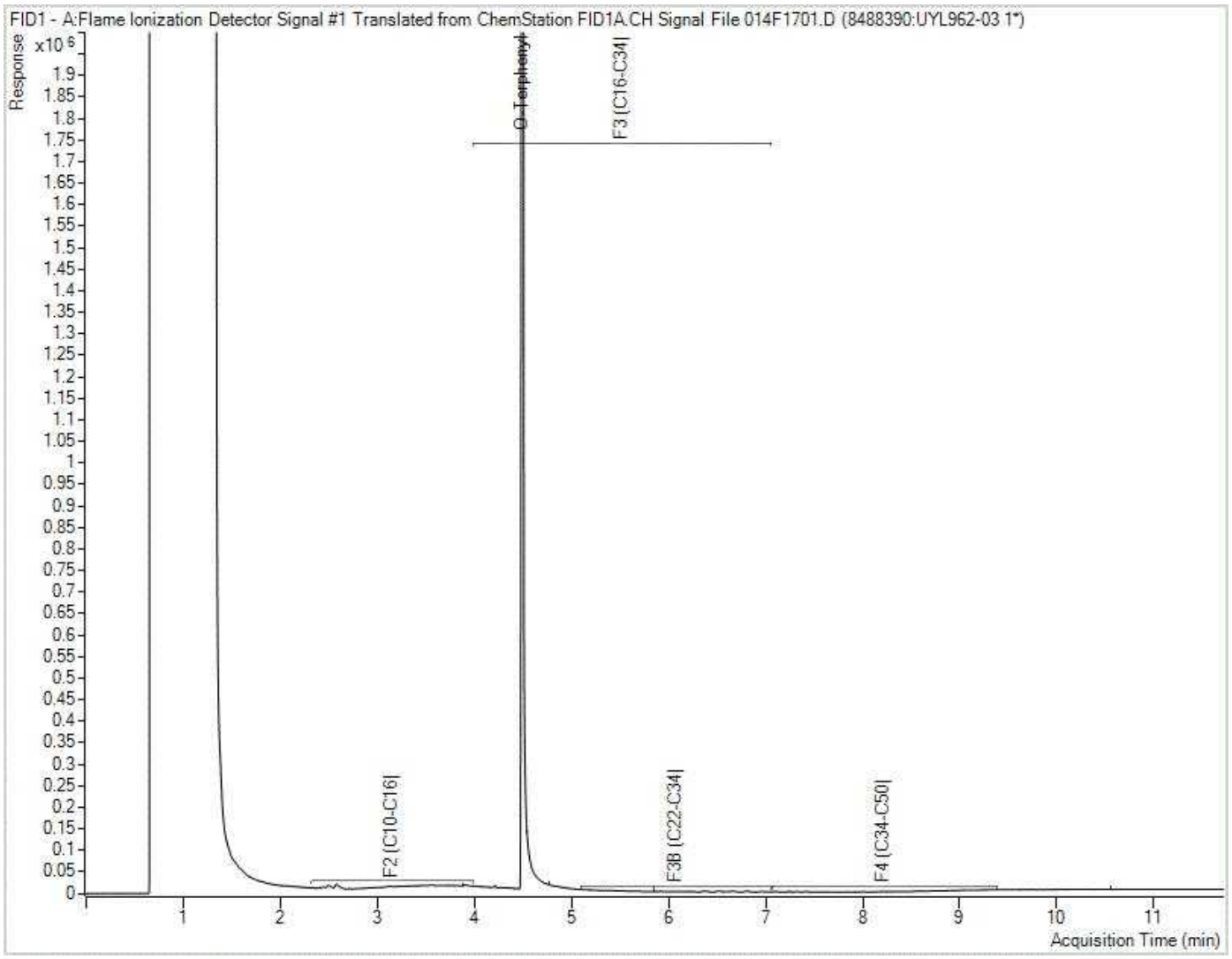
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C330669
Report Date: 2023/02/10
Bureau Veritas Sample: UYL962

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH111

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



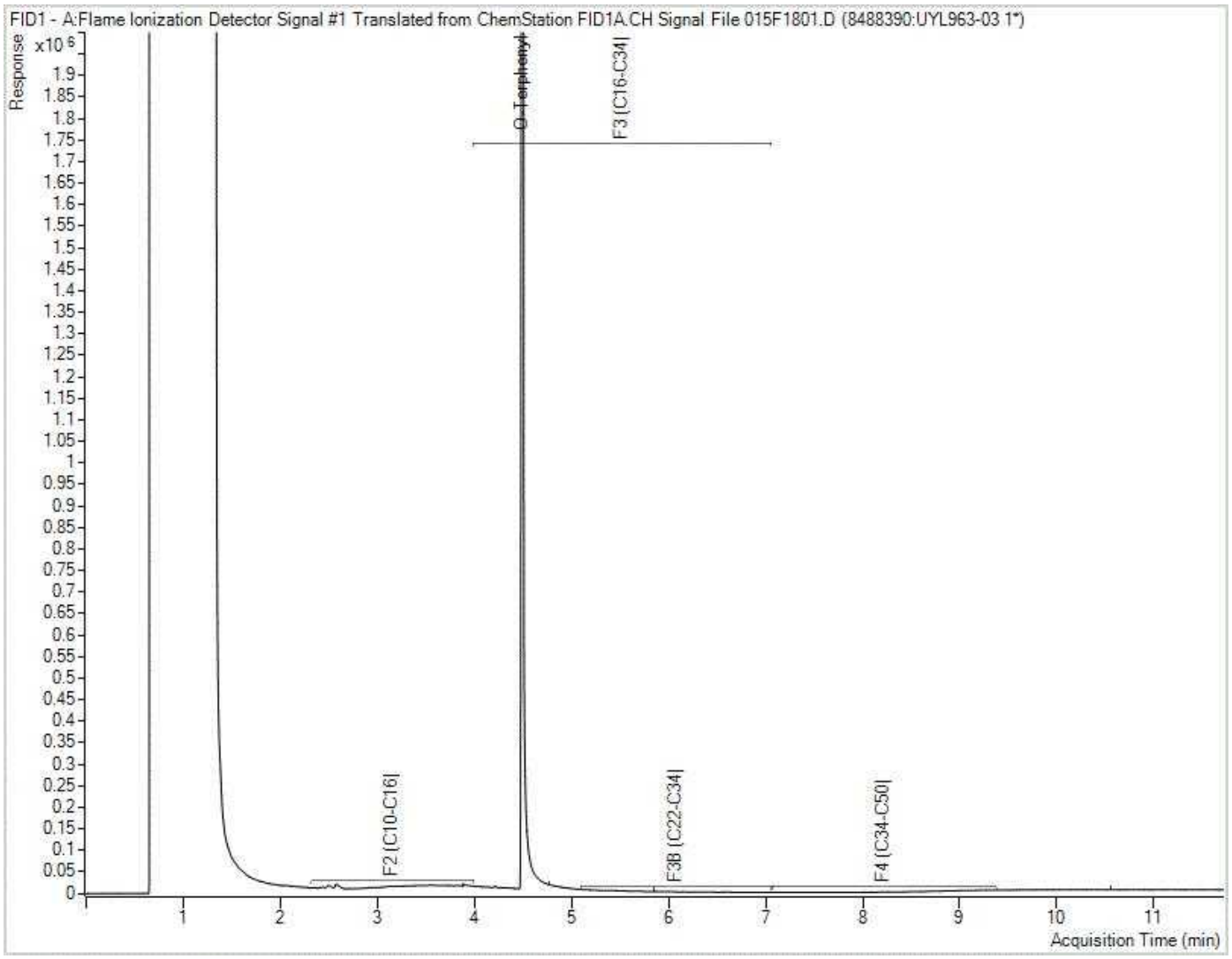
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C330669
Report Date: 2023/02/10
Bureau Veritas Sample: UYL963

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: QAQC103

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.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C330669
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

Exceedance Summary Table – Reg153/04 T1-GW

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
BH104	UYL959-01	Dissolved Selenium (Se)	5	8.2	2.0	ug/L
BH104	UYL959-01	Dissolved Uranium (U)	8.9	9.4	0.10	ug/L
BH111	UYL962-01	Dissolved Antimony (Sb)	1.5	2.0	0.50	ug/L
BH111	UYL962-01	Dissolved Molybdenum (Mo)	23	210	0.50	ug/L
BH111	UYL962-01	Dissolved Selenium (Se)	5	17	2.0	ug/L
BH111	UYL962-01	Dissolved Sodium (Na)	490000	1200000	500	ug/L
BH111	UYL962-01	Dissolved Uranium (U)	8.9	140	0.10	ug/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

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DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Your Project #: 14455-002
Your C.O.C. #: 922599-01-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2023/03/07
Report #: R7537360
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C355748
Received: 2023/02/27, 14:08

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	2	N/A	2023/03/02	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	3	N/A	2023/03/02		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1)	2	2023/03/01	2023/03/02	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	2	N/A	2023/02/28	CAM SOP-00447	EPA 6020B m
OC Pesticides (Selected) & PCB (2)	1	2023/03/01	2023/03/04	CAM SOP-00307	EPA 8081B/ 8082A
OC Pesticides Summed Parameters	1	N/A	2023/03/07	CAM SOP-00307	EPA 8081B/ 8082A
PAH Compounds in Water by GC/MS (SIM)	2	2023/03/01	2023/03/01	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs	3	N/A	2023/03/01	CAM SOP-00230	EPA 8260C m

Remarks:

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

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas 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

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Your Project #: 14455-002
Your C.O.C. #: 922599-01-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2023/03/07
Report #: R7537360
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C355748

Received: 2023/02/27, 14:08

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.
(2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Gemarie Balatico, Project Manager
Email: Gemarie.Balatico@bureauveritas.com
Phone# (905)817-5787

==========

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			VDR834		
Sampling Date			2023/02/27		
COC Number			922599-01-01		
	UNITS	Criteria	TRIP BLANK-VOC	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	0.50	8523754
Volatile Organics					
Acetone (2-Propanone)	ug/L	2700	<10	10	8525605
Benzene	ug/L	0.5	<0.17	0.17	8525605
Bromodichloromethane	ug/L	2	<0.50	0.50	8525605
Bromoform	ug/L	5.0	<1.0	1.0	8525605
Bromomethane	ug/L	0.89	<0.50	0.50	8525605
Carbon Tetrachloride	ug/L	0.2	<0.20	0.20	8525605
Chlorobenzene	ug/L	0.5	<0.20	0.20	8525605
Chloroform	ug/L	2	<0.20	0.20	8525605
Dibromochloromethane	ug/L	2	<0.50	0.50	8525605
1,2-Dichlorobenzene	ug/L	0.5	<0.50	0.50	8525605
1,3-Dichlorobenzene	ug/L	0.5	<0.50	0.50	8525605
1,4-Dichlorobenzene	ug/L	0.5	<0.50	0.50	8525605
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	1.0	8525605
1,1-Dichloroethane	ug/L	0.5	<0.20	0.20	8525605
1,2-Dichloroethane	ug/L	0.5	<0.50	0.50	8525605
1,1-Dichloroethylene	ug/L	0.5	<0.20	0.20	8525605
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	8525605
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	8525605
1,2-Dichloropropane	ug/L	0.5	<0.20	0.20	8525605
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	0.30	8525605
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	0.40	8525605
Ethylbenzene	ug/L	0.5	<0.20	0.20	8525605
Ethylene Dibromide	ug/L	0.2	<0.20	0.20	8525605
Hexane	ug/L	5	<1.0	1.0	8525605
Methylene Chloride(Dichloromethane	ug/L	5	<2.0	2.0	8525605
Methyl Ethyl Ketone (2-Butanone)	ug/L	400	<10	10	8525605
Methyl Isobutyl Ketone	ug/L	640	<5.0	5.0	8525605
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	0.50	8525605

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			VDR834		
Sampling Date			2023/02/27		
COC Number			922599-01-01		
	UNITS	Criteria	TRIP BLANK-VOC	RDL	QC Batch
Styrene	ug/L	0.5	<0.50	0.50	8525605
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	0.50	8525605
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	0.50	8525605
Tetrachloroethylene	ug/L	0.5	<0.20	0.20	8525605
Toluene	ug/L	0.8	<0.20	0.20	8525605
1,1,1-Trichloroethane	ug/L	0.5	<0.20	0.20	8525605
1,1,2-Trichloroethane	ug/L	0.5	<0.50	0.50	8525605
Trichloroethylene	ug/L	0.5	<0.20	0.20	8525605
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	0.50	8525605
Vinyl Chloride	ug/L	0.5	<0.20	0.20	8525605
p+m-Xylene	ug/L	-	<0.20	0.20	8525605
o-Xylene	ug/L	-	<0.20	0.20	8525605
Total Xylenes	ug/L	72	<0.20	0.20	8525605
F1 (C6-C10)	ug/L	420	<25	25	8525605
F1 (C6-C10) - BTEX	ug/L	420	<25	25	8525605
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	-	79		8525605
D4-1,2-Dichloroethane	%	-	107		8525605
D8-Toluene	%	-	99		8525605

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
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Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

O.REG 153 DISSOLVED ICPMS METALS (WATER)

Bureau Veritas ID			VDR832		VDR833		
Sampling Date			2023/02/27 13:00		2023/02/27 12:30		
COC Number			922599-01-01		922599-01-01		
	UNITS	Criteria	BH106	RDL	BH107	RDL	QC Batch
Metals							
Dissolved Antimony (Sb)	ug/L	1.5	**<2.5 (1)**	2.5	<0.50	0.50	8525476
Dissolved Arsenic (As)	ug/L	13	<5.0	5.0	<1.0	1.0	8525476
Dissolved Barium (Ba)	ug/L	610	26	10	28	2.0	8525476
Dissolved Beryllium (Be)	ug/L	0.5	**<2.0 (1)**	2.0	<0.40	0.40	8525476
Dissolved Boron (B)	ug/L	1700	570	50	44	10	8525476
Dissolved Cadmium (Cd)	ug/L	0.5	<0.45	0.45	<0.090	0.090	8525476
Dissolved Chromium (Cr)	ug/L	11	**<25 (1)**	25	<5.0	5.0	8525476
Dissolved Cobalt (Co)	ug/L	3.8	3.5	2.5	<0.50	0.50	8525476
Dissolved Copper (Cu)	ug/L	5	<4.5	4.5	1.2	0.90	8525476
Dissolved Lead (Pb)	ug/L	1.9	**<2.5 (1)**	2.5	<0.50	0.50	8525476
Dissolved Molybdenum (Mo	ug/L	23	7.8	2.5	0.74	0.50	8525476
Dissolved Nickel (Ni)	ug/L	14	9.8	5.0	<1.0	1.0	8525476
Dissolved Selenium (Se)	ug/L	5	**<10 (1)**	10	<2.0	2.0	8525476
Dissolved Silver (Ag)	ug/L	0.3	**<0.45 (1)**	0.45	<0.090	0.090	8525476
Dissolved Sodium (Na)	ug/L	490000	270000	500	8300	100	8525476
Dissolved Thallium (Tl)	ug/L	0.5	<0.25	0.25	<0.050	0.050	8525476
Dissolved Uranium (U)	ug/L	8.9	**33**	0.50	0.82	0.10	8525476
Dissolved Vanadium (V)	ug/L	3.9	<2.5	2.5	<0.50	0.50	8525476
Dissolved Zinc (Zn)	ug/L	160	29	25	<5.0	5.0	8525476

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses
(1) RDL exceeds criteria

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

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

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID			VDR831		
Sampling Date			2023/02/27 11:45		
COC Number			922599-01-01		
	UNITS	Criteria	BH101	RDL	QC Batch
Calculated Parameters					
Chlordane (Total)	ug/L	-	<0.005	0.005	8523755
o,p-DDD + p,p-DDD	ug/L	-	<0.005	0.005	8523755
o,p-DDE + p,p-DDE	ug/L	-	<0.005	0.005	8523755
o,p-DDT + p,p-DDT	ug/L	-	<0.005	0.005	8523755
Total Endosulfan	ug/L	-	<0.005	0.005	8523755
Total PCB	ug/L	0.2	<0.05	0.05	8523755
Pesticides & Herbicides					
Aldrin	ug/L	0.01	<0.005	0.005	8529367
Dieldrin	ug/L	0.05	<0.005	0.005	8529367
a-Chlordane	ug/L	0.06	<0.005	0.005	8529367
g-Chlordane	ug/L	0.06	<0.005	0.005	8529367
o,p-DDD	ug/L	1.8	<0.005	0.005	8529367
p,p-DDD	ug/L	1.8	<0.005	0.005	8529367
o,p-DDE	ug/L	10	<0.005	0.005	8529367
p,p-DDE	ug/L	10	<0.005	0.005	8529367
o,p-DDT	ug/L	0.05	<0.005	0.005	8529367
p,p-DDT	ug/L	0.05	<0.005	0.005	8529367
Lindane	ug/L	0.01	<0.003	0.003	8529367
Endosulfan I (alpha)	ug/L	0.05	<0.005	0.005	8529367
Endosulfan II (beta)	ug/L	0.05	<0.005	0.005	8529367
Endrin	ug/L	0.05	<0.005	0.005	8529367
Heptachlor	ug/L	0.01	<0.005	0.005	8529367
Heptachlor epoxide	ug/L	0.01	<0.005	0.005	8529367
Hexachlorobenzene	ug/L	0.01	<0.005	0.005	8529367
Hexachlorobutadiene	ug/L	0.01	<0.009	0.009	8529367
Hexachloroethane	ug/L	0.01	<0.01	0.01	8529367
Methoxychlor	ug/L	0.05	<0.01	0.01	8529367
Aroclor 1242	ug/L	-	<0.05	0.05	8529367
Aroclor 1248	ug/L	-	<0.05	0.05	8529367

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
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Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID			VDR831		
Sampling Date			2023/02/27 11:45		
COC Number			922599-01-01		
	UNITS	Criteria	BH101	RDL	QC Batch
Aroclor 1254	ug/L	-	<0.05	0.05	8529367
Aroclor 1260	ug/L	-	<0.05	0.05	8529367
Surrogate Recovery (%)					
2,4,5,6-Tetrachloro-m-xylen	%	-	70		8529367
Decachlorobiphenyl	%	-	109		8529367

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

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Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

O.REG 153 PAHS (WATER)

Bureau Veritas ID			VDR832			VDR832			VDR833		
Sampling Date			2023/02/27 13:00			2023/02/27 13:00			2023/02/27 12:30		
COC Number			922599-01-01			922599-01-01			922599-01-01		
	UNITS	Criteria	BH106	RDL	QC Batch	BH106 Lab-Dup	RDL	QC Batch	BH107	RDL	QC Batch
Calculated Parameters											
Methylnaphthalene, 2-(1-)	ug/L	2	<0.071	0.071	8523753				<0.071	0.071	8523753
Polyaromatic Hydrocarbons											
Acenaphthene	ug/L	4.1	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Acenaphthylene	ug/L	1	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Anthracene	ug/L	0.1	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Benzo(a)anthracene	ug/L	0.2	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Benzo(a)pyrene	ug/L	0.01	<0.0090	0.0090	8528504	<0.0090	0.0090	8528504	<0.0090	0.0090	8528504
Benzo(b/j)fluoranthene	ug/L	0.1	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Benzo(g,h,i)perylene	ug/L	0.2	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Benzo(k)fluoranthene	ug/L	0.1	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Chrysene	ug/L	0.1	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Dibenzo(a,h)anthracene	ug/L	0.2	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Fluoranthene	ug/L	0.4	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Fluorene	ug/L	120	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Indeno(1,2,3-cd)pyrene	ug/L	0.2	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
1-Methylnaphthalene	ug/L	2	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
2-Methylnaphthalene	ug/L	2	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Naphthalene	ug/L	7	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Phenanthrene	ug/L	0.1	<0.030	0.030	8528504	<0.030	0.030	8528504	<0.030	0.030	8528504
Pyrene	ug/L	0.2	<0.050	0.050	8528504	<0.050	0.050	8528504	<0.050	0.050	8528504
Surrogate Recovery (%)											
D10-Anthracene	%	-	108		8528504	106		8528504	110		8528504
D14-Terphenyl (FS)	%	-	85		8528504	81		8528504	99		8528504
D8-Acenaphthylene	%	-	92		8528504	89		8528504	93		8528504

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

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

Bureau Veritas ID			VDR832			VDR832			VDR833		
Sampling Date			2023/02/27 13:00			2023/02/27 13:00			2023/02/27 12:30		
COC Number			922599-01-01			922599-01-01			922599-01-01		
	UNITS	Criteria	BH106	RDL	QC Batch	BH106 Lab-Dup	RDL	QC Batch	BH107	RDL	QC Batch
Calculated Parameters											
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	0.50	8523754				<0.50	0.50	8523754
Volatile Organics											
Acetone (2-Propanone)	ug/L	2700	<10	10	8525605				<10	10	8525605
Benzene	ug/L	0.5	<0.17	0.17	8525605				<0.17	0.17	8525605
Bromodichloromethane	ug/L	2	<0.50	0.50	8525605				<0.50	0.50	8525605
Bromoform	ug/L	5.0	<1.0	1.0	8525605				<1.0	1.0	8525605
Bromomethane	ug/L	0.89	<0.50	0.50	8525605				<0.50	0.50	8525605
Carbon Tetrachloride	ug/L	0.2	<0.20	0.20	8525605				<0.20	0.20	8525605
Chlorobenzene	ug/L	0.5	<0.20	0.20	8525605				<0.20	0.20	8525605
Chloroform	ug/L	2	<0.20	0.20	8525605				<0.20	0.20	8525605
Dibromochloromethane	ug/L	2	<0.50	0.50	8525605				<0.50	0.50	8525605
1,2-Dichlorobenzene	ug/L	0.5	<0.50	0.50	8525605				<0.50	0.50	8525605
1,3-Dichlorobenzene	ug/L	0.5	<0.50	0.50	8525605				<0.50	0.50	8525605
1,4-Dichlorobenzene	ug/L	0.5	<0.50	0.50	8525605				<0.50	0.50	8525605
Dichlorodifluoromethane (FREON 12)	ug/L	590	<1.0	1.0	8525605				<1.0	1.0	8525605
1,1-Dichloroethane	ug/L	0.5	<0.20	0.20	8525605				<0.20	0.20	8525605
1,2-Dichloroethane	ug/L	0.5	<0.50	0.50	8525605				<0.50	0.50	8525605
1,1-Dichloroethylene	ug/L	0.5	<0.20	0.20	8525605				<0.20	0.20	8525605
cis-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	8525605				<0.50	0.50	8525605
trans-1,2-Dichloroethylene	ug/L	1.6	<0.50	0.50	8525605				<0.50	0.50	8525605
1,2-Dichloropropane	ug/L	0.5	<0.20	0.20	8525605				<0.20	0.20	8525605
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	0.30	8525605				<0.30	0.30	8525605
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	0.40	8525605				<0.40	0.40	8525605
Ethylbenzene	ug/L	0.5	<0.20	0.20	8525605				<0.20	0.20	8525605
Ethylene Dibromide	ug/L	0.2	<0.20	0.20	8525605				<0.20	0.20	8525605
Hexane	ug/L	5	<1.0	1.0	8525605				<1.0	1.0	8525605
Methylene Chloride(Dichloromethane	ug/L	5	<2.0	2.0	8525605				<2.0	2.0	8525605
Methyl Ethyl Ketone (2-Butanone)	ug/L	400	<10	10	8525605				<10	10	8525605

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

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

Bureau Veritas ID			VDR832			VDR832			VDR833		
Sampling Date			2023/02/27 13:00			2023/02/27 13:00			2023/02/27 12:30		
COC Number			922599-01-01			922599-01-01			922599-01-01		
	UNITS	Criteria	BH106	RDL	QC Batch	BH106 Lab-Dup	RDL	QC Batch	BH107	RDL	QC Batch
Methyl Isobutyl Ketone	ug/L	640	<5.0	5.0	8525605				<5.0	5.0	8525605
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	0.50	8525605				<0.50	0.50	8525605
Styrene	ug/L	0.5	<0.50	0.50	8525605				<0.50	0.50	8525605
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	0.50	8525605				<0.50	0.50	8525605
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	0.50	8525605				<0.50	0.50	8525605
Tetrachloroethylene	ug/L	0.5	<0.20	0.20	8525605				<0.20	0.20	8525605
Toluene	ug/L	0.8	<0.20	0.20	8525605				<0.20	0.20	8525605
1,1,1-Trichloroethane	ug/L	0.5	<0.20	0.20	8525605				<0.20	0.20	8525605
1,1,2-Trichloroethane	ug/L	0.5	<0.50	0.50	8525605				<0.50	0.50	8525605
Trichloroethylene	ug/L	0.5	<0.20	0.20	8525605				<0.20	0.20	8525605
Trichlorofluoromethane (FREON 11)	ug/L	150	<0.50	0.50	8525605				<0.50	0.50	8525605
Vinyl Chloride	ug/L	0.5	<0.20	0.20	8525605				<0.20	0.20	8525605
p+m-Xylene	ug/L	-	<0.20	0.20	8525605				<0.20	0.20	8525605
o-Xylene	ug/L	-	<0.20	0.20	8525605				<0.20	0.20	8525605
Total Xylenes	ug/L	72	<0.20	0.20	8525605				<0.20	0.20	8525605
F1 (C6-C10)	ug/L	420	<25	25	8525605				<25	25	8525605
F1 (C6-C10) - BTEX	ug/L	420	<25	25	8525605				<25	25	8525605
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/L	150	<100	100	8528507	<100	100	8528507	<100	100	8528507
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	200	8528507	<200	200	8528507	<200	200	8528507
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	200	8528507	<200	200	8528507	<200	200	8528507
Reached Baseline at C50	ug/L	-	Yes		8528507	Yes		8528507	Yes		8528507
Surrogate Recovery (%)											
o-Terphenyl	%	-	92		8528507	95		8528507	94		8528507
4-Bromofluorobenzene	%	-	79		8525605				79		8525605
D4-1,2-Dichloroethane	%	-	106		8525605				106		8525605
D8-Toluene	%	-	99		8525605				99		8525605

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

RDL = Reportable Detection Limit
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Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

TEST SUMMARY

Bureau Veritas ID: VDR831
Sample ID: BH101
Matrix: Water

Collected: 2023/02/27
Shipped:
Received: 2023/02/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides (Selected) & PCB	GC/ECD	8529367	2023/03/01	2023/03/04	Mahmudul Khan
OC Pesticides Summed Parameters	CALC	8523755	N/A	2023/03/07	Automated Statchk

Bureau Veritas ID: VDR832
Sample ID: BH106
Matrix: Water

Collected: 2023/02/27
Shipped:
Received: 2023/02/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8523753	N/A	2023/03/02	Automated Statchk
1,3-Dichloropropene Sum	CALC	8523754	N/A	2023/03/02	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8528507	2023/03/01	2023/03/02	Anna Stuglik-Rolland
Dissolved Metals by ICPMS	ICP/MS	8525476	N/A	2023/02/28	Rupinder Gill
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8528504	2023/03/01	2023/03/01	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8525605	N/A	2023/03/01	Jett Wu

Bureau Veritas ID: VDR832 Dup
Sample ID: BH106
Matrix: Water

Collected: 2023/02/27
Shipped:
Received: 2023/02/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8528507	2023/03/01	2023/03/02	Anna Stuglik-Rolland
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8528504	2023/03/01	2023/03/02	Jonghan Yoon

Bureau Veritas ID: VDR833
Sample ID: BH107
Matrix: Water

Collected: 2023/02/27
Shipped:
Received: 2023/02/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8523753	N/A	2023/03/02	Automated Statchk
1,3-Dichloropropene Sum	CALC	8523754	N/A	2023/03/02	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8528507	2023/03/01	2023/03/02	Anna Stuglik-Rolland
Dissolved Metals by ICPMS	ICP/MS	8525476	N/A	2023/02/28	Rupinder Gill
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8528504	2023/03/01	2023/03/01	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8525605	N/A	2023/03/01	Jett Wu

Bureau Veritas ID: VDR834
Sample ID: TRIP BLANK-VOC
Matrix: Water

Collected: 2023/02/27
Shipped:
Received: 2023/02/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8523754	N/A	2023/03/02	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8525605	N/A	2023/03/01	Jett Wu

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.0°C

Sample VDR832 [BH106] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.

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

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

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07

QUALITY ASSURANCE REPORT

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8525605	4-Bromofluorobenzene	2023/03/01	93	70 - 130	94	70 - 130	80	%		
8525605	D4-1,2-Dichloroethane	2023/03/01	106	70 - 130	101	70 - 130	102	%		
8525605	D8-Toluene	2023/03/01	105	70 - 130	107	70 - 130	99	%		
8528504	D10-Anthracene	2023/03/01	99	50 - 130	114	50 - 130	111	%		
8528504	D14-Terphenyl (FS)	2023/03/01	87	50 - 130	102	50 - 130	98	%		
8528504	D8-Acenaphthylene	2023/03/01	84	50 - 130	98	50 - 130	92	%		
8528507	o-Terphenyl	2023/03/01	98	60 - 130	98	60 - 130	98	%		
8529367	2,4,5,6-Tetrachloro-m-xylene	2023/03/04	70	50 - 130	65	50 - 130	64	%		
8529367	Decachlorobiphenyl	2023/03/04	107	50 - 130	108	50 - 130	94	%		
8525476	Dissolved Antimony (Sb)	2023/02/28	116	80 - 120	107	80 - 120	<0.50	ug/L	9.1	20
8525476	Dissolved Arsenic (As)	2023/02/28	108	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
8525476	Dissolved Barium (Ba)	2023/02/28	106	80 - 120	100	80 - 120	<2.0	ug/L	0.43	20
8525476	Dissolved Beryllium (Be)	2023/02/28	111	80 - 120	103	80 - 120	<0.40	ug/L	NC	20
8525476	Dissolved Boron (B)	2023/02/28	105	80 - 120	98	80 - 120	<10	ug/L	4.7	20
8525476	Dissolved Cadmium (Cd)	2023/02/28	108	80 - 120	102	80 - 120	<0.090	ug/L	5.4	20
8525476	Dissolved Chromium (Cr)	2023/02/28	108	80 - 120	99	80 - 120	<5.0	ug/L	0.20	20
8525476	Dissolved Cobalt (Co)	2023/02/28	103	80 - 120	99	80 - 120	<0.50	ug/L	3.6	20
8525476	Dissolved Copper (Cu)	2023/02/28	108	80 - 120	104	80 - 120	<0.90	ug/L	2.4	20
8525476	Dissolved Lead (Pb)	2023/02/28	104	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
8525476	Dissolved Molybdenum (Mo)	2023/02/28	118	80 - 120	108	80 - 120	<0.50	ug/L	1.1	20
8525476	Dissolved Nickel (Ni)	2023/02/28	101	80 - 120	99	80 - 120	<1.0	ug/L	2.2	20
8525476	Dissolved Selenium (Se)	2023/02/28	106	80 - 120	101	80 - 120	<2.0	ug/L	NC	20
8525476	Dissolved Silver (Ag)	2023/02/28	110	80 - 120	108	80 - 120	<0.090	ug/L	NC	20
8525476	Dissolved Sodium (Na)	2023/02/28	NC	80 - 120	101	80 - 120	<100	ug/L	1.6	20
8525476	Dissolved Thallium (Tl)	2023/02/28	105	80 - 120	104	80 - 120	<0.050	ug/L	NC	20
8525476	Dissolved Uranium (U)	2023/02/28	108	80 - 120	101	80 - 120	<0.10	ug/L	0.27	20
8525476	Dissolved Vanadium (V)	2023/02/28	106	80 - 120	98	80 - 120	<0.50	ug/L	1.8	20
8525476	Dissolved Zinc (Zn)	2023/02/28	105	80 - 120	100	80 - 120	<5.0	ug/L	NC	20
8525605	1,1,1,2-Tetrachloroethane	2023/03/01	101	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
8525605	1,1,1-Trichloroethane	2023/03/01	101	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
8525605	1,1,2,2-Tetrachloroethane	2023/03/01	99	70 - 130	94	70 - 130	<0.50	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8525605	1,1,2-Trichloroethane	2023/03/01	109	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
8525605	1,1-Dichloroethane	2023/03/01	102	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
8525605	1,1-Dichloroethylene	2023/03/01	100	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
8525605	1,2-Dichlorobenzene	2023/03/01	96	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
8525605	1,2-Dichloroethane	2023/03/01	98	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8525605	1,2-Dichloropropane	2023/03/01	103	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
8525605	1,3-Dichlorobenzene	2023/03/01	98	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
8525605	1,4-Dichlorobenzene	2023/03/01	108	70 - 130	108	70 - 130	<0.50	ug/L	NC	30
8525605	Acetone (2-Propanone)	2023/03/01	103	60 - 140	92	60 - 140	<10	ug/L	NC	30
8525605	Benzene	2023/03/01	96	70 - 130	96	70 - 130	<0.17	ug/L	1.1	30
8525605	Bromodichloromethane	2023/03/01	103	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
8525605	Bromoform	2023/03/01	94	70 - 130	90	70 - 130	<1.0	ug/L	NC	30
8525605	Bromomethane	2023/03/01	104	60 - 140	100	60 - 140	<0.50	ug/L	NC	30
8525605	Carbon Tetrachloride	2023/03/01	100	70 - 130	102	70 - 130	<0.20	ug/L	NC	30
8525605	Chlorobenzene	2023/03/01	98	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
8525605	Chloroform	2023/03/01	100	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
8525605	cis-1,2-Dichloroethylene	2023/03/01	101	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
8525605	cis-1,3-Dichloropropene	2023/03/01	101	70 - 130	97	70 - 130	<0.30	ug/L	NC	30
8525605	Dibromochloromethane	2023/03/01	96	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8525605	Dichlorodifluoromethane (FREON 12)	2023/03/01	104	60 - 140	104	60 - 140	<1.0	ug/L	NC	30
8525605	Ethylbenzene	2023/03/01	87	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
8525605	Ethylene Dibromide	2023/03/01	96	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
8525605	F1 (C6-C10) - BTEX	2023/03/01					<25	ug/L	NC	30
8525605	F1 (C6-C10)	2023/03/01	89	60 - 140	95	60 - 140	<25	ug/L	NC	30
8525605	Hexane	2023/03/01	104	70 - 130	106	70 - 130	<1.0	ug/L	NC	30
8525605	Methyl Ethyl Ketone (2-Butanone)	2023/03/01	101	60 - 140	91	60 - 140	<10	ug/L	NC	30
8525605	Methyl Isobutyl Ketone	2023/03/01	100	70 - 130	94	70 - 130	<5.0	ug/L	NC	30
8525605	Methyl t-butyl ether (MTBE)	2023/03/01	88	70 - 130	85	70 - 130	<0.50	ug/L	NC	30
8525605	Methylene Chloride(Dichloromethane)	2023/03/01	110	70 - 130	105	70 - 130	<2.0	ug/L	NC	30
8525605	o-Xylene	2023/03/01	88	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
8525605	p+m-Xylene	2023/03/01	88	70 - 130	90	70 - 130	<0.20	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8525605	Styrene	2023/03/01	95	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
8525605	Tetrachloroethylene	2023/03/01	91	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
8525605	Toluene	2023/03/01	96	70 - 130	97	70 - 130	<0.20	ug/L	3.9	30
8525605	Total Xylenes	2023/03/01					<0.20	ug/L	NC	30
8525605	trans-1,2-Dichloroethylene	2023/03/01	103	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
8525605	trans-1,3-Dichloropropene	2023/03/01	109	70 - 130	104	70 - 130	<0.40	ug/L	NC	30
8525605	Trichloroethylene	2023/03/01	100	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
8525605	Trichlorofluoromethane (FREON 11)	2023/03/01	97	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
8525605	Vinyl Chloride	2023/03/01	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
8528504	1-Methylnaphthalene	2023/03/02	97	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
8528504	2-Methylnaphthalene	2023/03/02	86	50 - 130	84	50 - 130	<0.050	ug/L	NC	30
8528504	Acenaphthene	2023/03/02	100	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8528504	Acenaphthylene	2023/03/02	98	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
8528504	Anthracene	2023/03/02	104	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8528504	Benzo(a)anthracene	2023/03/02	89	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8528504	Benzo(a)pyrene	2023/03/02	82	50 - 130	88	50 - 130	<0.0090	ug/L	NC	30
8528504	Benzo(b/j)fluoranthene	2023/03/02	90	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
8528504	Benzo(g,h,i)perylene	2023/03/02	101	50 - 130	106	50 - 130	<0.050	ug/L	NC	30
8528504	Benzo(k)fluoranthene	2023/03/02	84	50 - 130	91	50 - 130	<0.050	ug/L	NC	30
8528504	Chrysene	2023/03/02	88	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
8528504	Dibenzo(a,h)anthracene	2023/03/02	86	50 - 130	89	50 - 130	<0.050	ug/L	NC	30
8528504	Fluoranthene	2023/03/02	102	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8528504	Fluorene	2023/03/02	95	50 - 130	95	50 - 130	<0.050	ug/L	NC	30
8528504	Indeno(1,2,3-cd)pyrene	2023/03/02	97	50 - 130	103	50 - 130	<0.050	ug/L	NC	30
8528504	Naphthalene	2023/03/02	94	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
8528504	Phenanthrene	2023/03/02	98	50 - 130	97	50 - 130	<0.030	ug/L	NC	30
8528504	Pyrene	2023/03/02	101	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8528507	F2 (C10-C16 Hydrocarbons)	2023/03/02	97	60 - 130	97	60 - 130	<100	ug/L	NC	30
8528507	F3 (C16-C34 Hydrocarbons)	2023/03/02	101	60 - 130	102	60 - 130	<200	ug/L	NC	30
8528507	F4 (C34-C50 Hydrocarbons)	2023/03/02	102	60 - 130	102	60 - 130	<200	ug/L	NC	30
8529367	a-Chlordane	2023/03/04	97	50 - 130	96	50 - 130	<0.005	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8529367	Aldrin	2023/03/04	85	50 - 130	84	50 - 130	<0.005	ug/L	NC	30
8529367	Aroclor 1242	2023/03/04					<0.05	ug/L	NC	30
8529367	Aroclor 1248	2023/03/04					<0.05	ug/L	NC	30
8529367	Aroclor 1254	2023/03/04					<0.05	ug/L	NC	30
8529367	Aroclor 1260	2023/03/04					<0.05	ug/L	NC	30
8529367	Dieldrin	2023/03/04	104	50 - 130	104	50 - 130	<0.005	ug/L	NC	30
8529367	Endosulfan I (alpha)	2023/03/04	103	50 - 130	96	50 - 130	<0.005	ug/L	NC	30
8529367	Endosulfan II (beta)	2023/03/04	89	50 - 130	81	50 - 130	<0.005	ug/L	NC	30
8529367	Endrin	2023/03/04	96	50 - 130	97	50 - 130	<0.005	ug/L	NC	30
8529367	g-Chlordane	2023/03/04	99	50 - 130	92	50 - 130	<0.005	ug/L	NC	30
8529367	Heptachlor epoxide	2023/03/04	96	50 - 130	96	50 - 130	<0.005	ug/L	NC	30
8529367	Heptachlor	2023/03/04	90	50 - 130	65	50 - 130	<0.005	ug/L	NC	30
8529367	Hexachlorobenzene	2023/03/04	85	50 - 130	86	50 - 130	<0.005	ug/L	NC	30
8529367	Hexachlorobutadiene	2023/03/04	75	50 - 130	81	50 - 130	<0.009	ug/L	NC	30
8529367	Hexachloroethane	2023/03/04	66	50 - 130	69	50 - 130	<0.01	ug/L	NC	30
8529367	Lindane	2023/03/04	84	50 - 130	85	50 - 130	<0.003	ug/L	NC	30
8529367	Methoxychlor	2023/03/04	102	50 - 130	96	50 - 130	<0.01	ug/L	NC	30
8529367	o,p-DDD	2023/03/04	102	50 - 130	102	50 - 130	<0.005	ug/L	NC	30
8529367	o,p-DDE	2023/03/04	94	50 - 130	96	50 - 130	<0.005	ug/L	NC	30
8529367	o,p-DDT	2023/03/04	97	50 - 130	92	50 - 130	<0.005	ug/L	NC	30
8529367	p,p-DDD	2023/03/04	100	50 - 130	98	50 - 130	<0.005	ug/L	NC	30
8529367	p,p-DDE	2023/03/04	99	50 - 130	98	50 - 130	<0.005	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8529367	p,p-DDT	2023/03/04	105	50 - 130	98	50 - 130	<0.005	ug/L	NC	30

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

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

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

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

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

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

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

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VALIDATION SIGNATURE PAGE

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

Cristina Carriere

Cristina Carriere, Senior 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.

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Page 1 of 1

27-Feb-23 14:08
Gemarie Balatico
C355748

JDK ENV-2030

Use Only:

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#17950 Cambium Environmental Inc	Company Name:		Quotation #:	C26318
Attention:	ACCOUNTS PAYABLE	Attention:	Sharif Nawyaz	P.O. #:	
Address:	194 Sophia Street PO Box 325	Address:		Project:	14455-002
	Peterborough ON K9H 1E5			Project Name:	
Tel:	(705) 742-7900 Fax: (705) 742-7907	Tel:	(866) 217-7900 Fax:	Site #:	
Email:	accounting@cambium-inc.com	Email:	Sharif.Nawyaz@cambium-inc.com	Sampled By:	M. Haligowski

Bottle Order #: 922599
COC #: C#922599-01-01
Project Manager: Gemarie Balatico

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): [X] Table 1 [X] Res/Park [ ] Medium/Fine; [ ] Table 2 [X] Ind/Comm [X] Coarse; [ ] Table 3 [ ] Agri/Other [ ] For RSC; [ ] Table ___

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

Special Instructions:

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

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

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

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

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 VOCs by HS & F1-F4	O.Reg 153 Dissolved ICPMS Metals (Water)	O.Reg 153 PAHs	O.Reg 153 OCPs	# of Bottles	Comments
1		BH101	27-Feb-23	11:45	GW	Y				X	2	
2		BH106	"	13:00	GW	Y	X	X	X		5	
3		BH107	"	12:30	GW	Y	X	X	X		5	
4		Trip Blank - VOC			GW		X					
5												
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
M Haligowski	23/02/27	14:07		23/02/27	14:08	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
	8.1 5.5	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

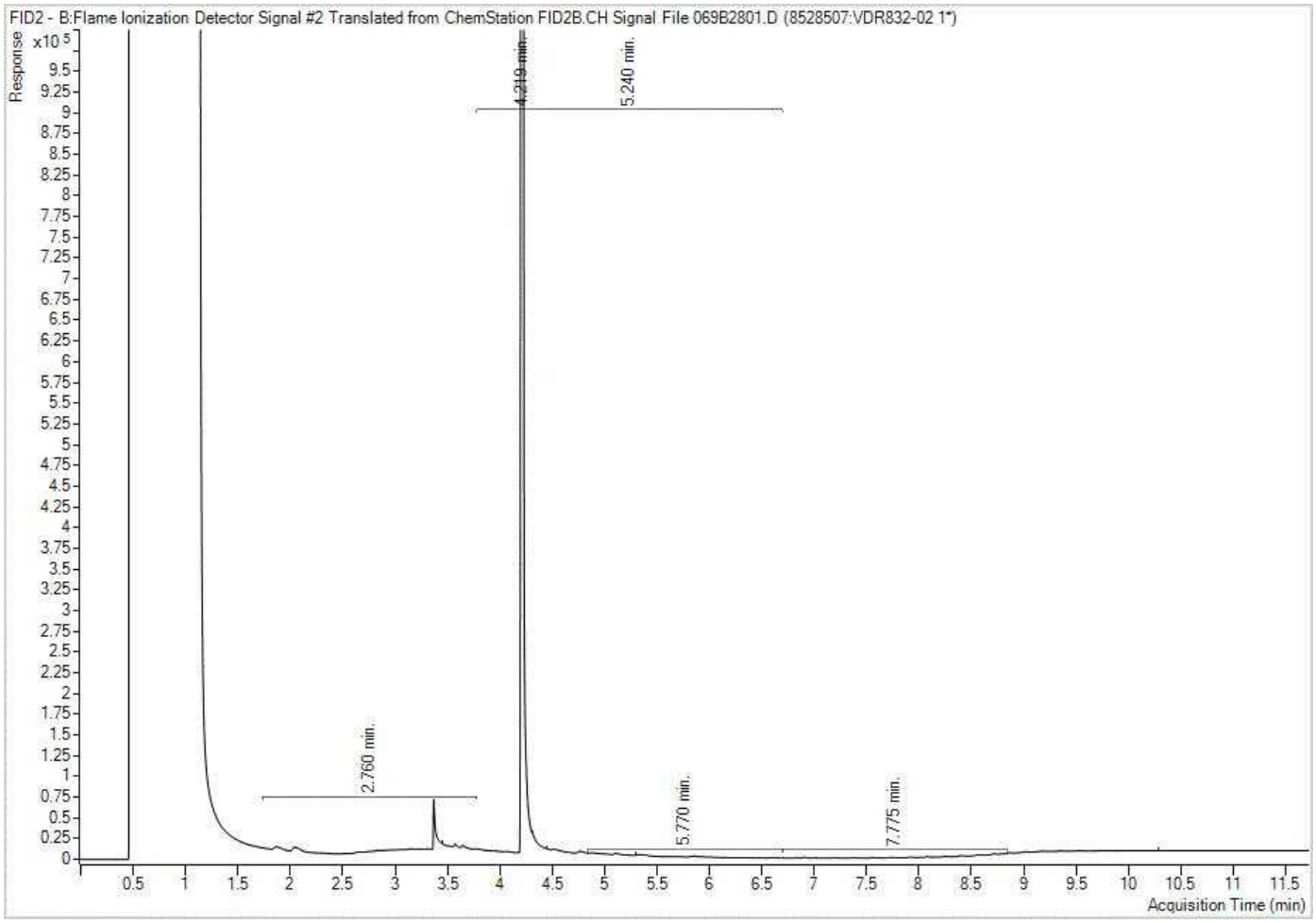
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Bureau Veritas Job #: C355748
Report Date: 2023/03/07
Bureau Veritas Sample: VDR832

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH106

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



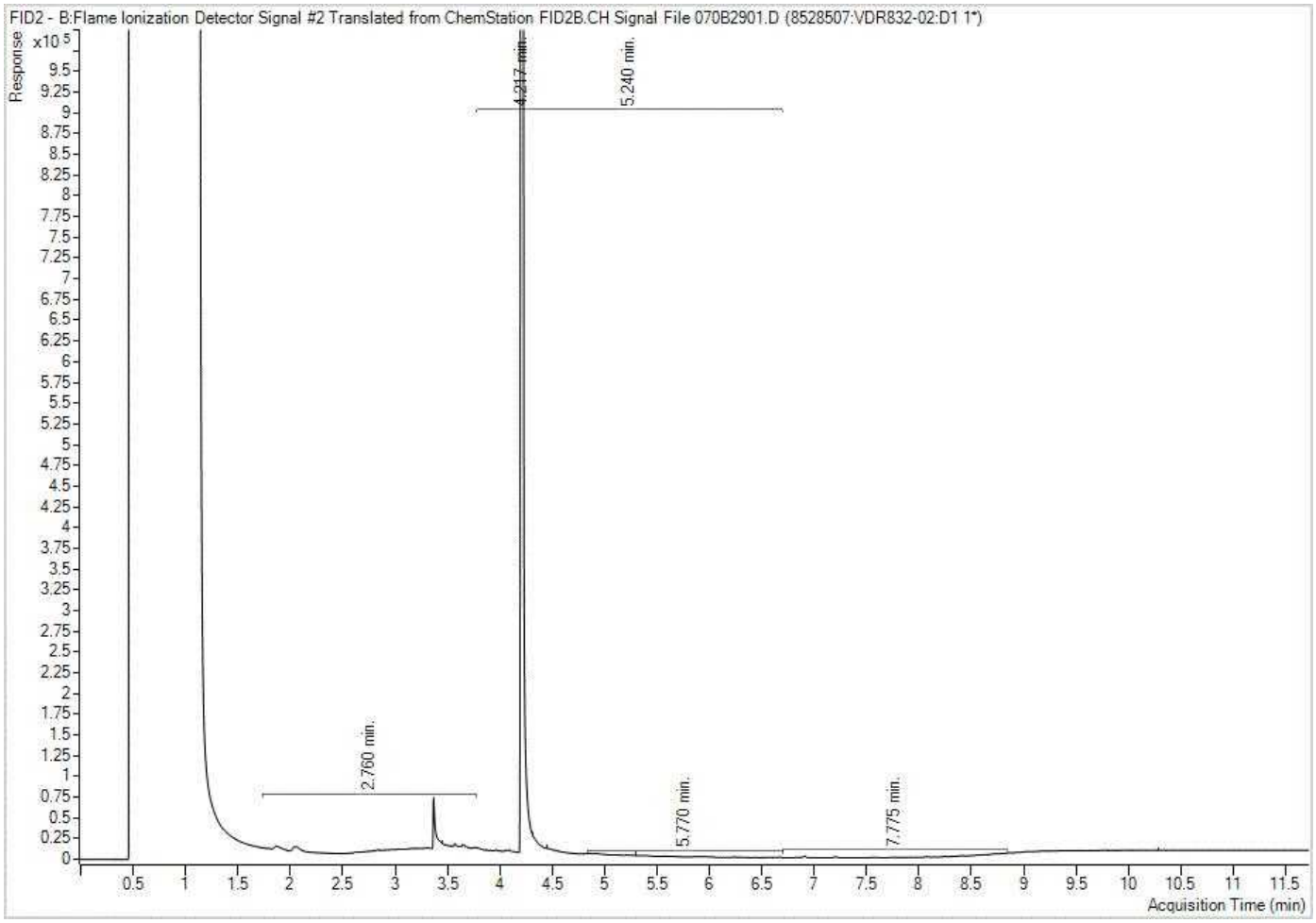
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07
Bureau Veritas Sample: VDR832 Lab-Dup

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH106

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



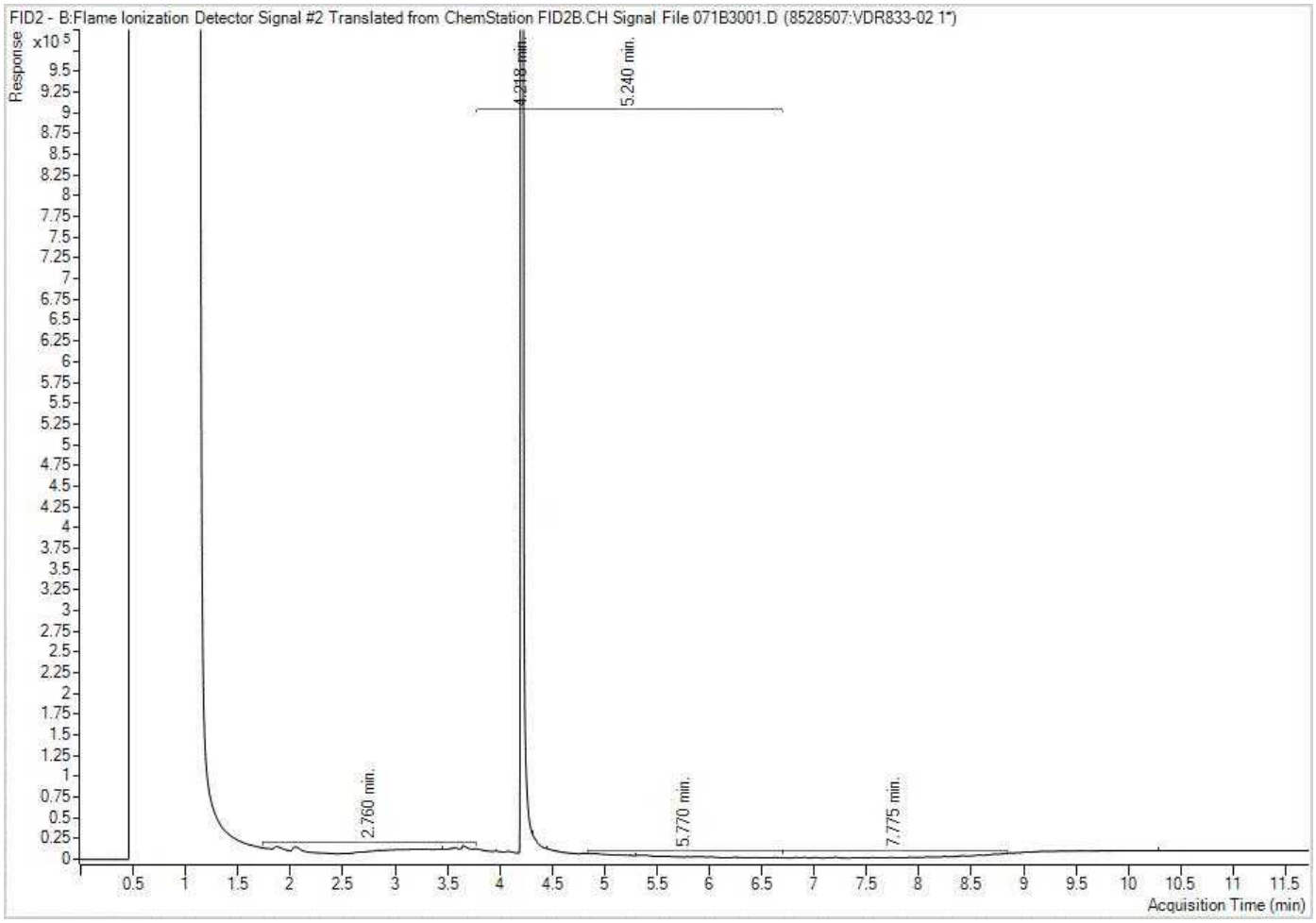
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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Bureau Veritas Job #: C355748
Report Date: 2023/03/07
Bureau Veritas Sample: VDR833

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: BH107

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 #: C355748
Report Date: 2023/03/07

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

Exceedance Summary Table – Reg153/04 T1-GW

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
BH106	VDR832-01	Dissolved Uranium (U)	8.9	33	0.50	ug/L

Detection Limit Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
BH106	VDR832-01	Dissolved Antimony (Sb)	1.5	<2.5	2.5	ug/L
BH106	VDR832-01	Dissolved Beryllium (Be)	0.5	<2.0	2.0	ug/L
BH106	VDR832-01	Dissolved Chromium (Cr)	11	<25	25	ug/L
BH106	VDR832-01	Dissolved Lead (Pb)	1.9	<2.5	2.5	ug/L
BH106	VDR832-01	Dissolved Selenium (Se)	5	<10	10	ug/L
BH106	VDR832-01	Dissolved Silver (Ag)	0.3	<0.45	0.45	ug/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

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DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Your Project #: 14455-002
Your C.O.C. #: 910867-01-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2023/02/10
Report #: R7505020
Version: 2 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BUREAU VERITAS JOB #: C329309
Received: 2023/01/31, 14:25

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	3	N/A	2023/02/06	CAM SOP-00301	EPA 8270D m
Conductivity	3	N/A	2023/02/02	CAM SOP-00414	SM 23 2510 m
Petroleum Hydro. CCME F1 & BTEX in Water	5	N/A	2023/02/02	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	3	2023/02/02	2023/02/02	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2023/02/02	2023/02/03	CAM SOP-00316	CCME PHC-CWS m
Mercury	1	2023/02/02	2023/02/02	CAM SOP-00453	EPA 7470A m
Mercury	1	2023/02/03	2023/02/03	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	3	N/A	2023/02/03	CAM SOP-00447	EPA 6020B m
OC Pesticides (Selected) & PCB (2)	1	2023/02/08	2023/02/09	CAM SOP-00307	EPA 8081B/ 8082A
OC Pesticides Summed Parameters	1	N/A	2023/02/03	CAM SOP-00307	EPA 8081B/ 8082A
PAH Compounds in Water by GC/MS (SIM)	3	2023/02/02	2023/02/02	CAM SOP-00318	EPA 8270E
Sodium Adsorption Ratio (SAR)	3	N/A	2023/02/03	CAM SOP-00102	EPA 6010C

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.

Bureau Veritas - Partial Result/Rush

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Your Project #: 14455-002
Your C.O.C. #: 910867-01-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2023/02/10
Report #: R7505020
Version: 2 - Partial

CERTIFICATE OF ANALYSIS – PARTIAL RESULTS

BUREAU VERITAS JOB #: C329309
Received: 2023/01/31, 14:25

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) 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.

(2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Gemarie Balatico, Project Manager
Email: Gemarie.Balatico@bureauveritas.com
Phone# (905)817-5787

==========

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 Partial/Rush Results

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C329309
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		UYF322	UYF323	UYF324		
Sampling Date		2023/01/27 14:15	2023/01/27 15:00	2023/01/27 15:55		
COC Number		910867-01-01	910867-01-01	910867-01-01		
	UNITS	**BH101**	**BH102**	**BH103**	**RDL**	**QC Batch**
Calculated Parameters						
Sodium Adsorption Ratio	N/A	2.3	0.79	5.3		8479791
Inorganics						
Conductivity	mS/cm	1.3	1.1	4.4	0.0010	8483710

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas - Partial/Rush Results

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DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C329309
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID			UYF322			UYF323	UYF324		
Sampling Date			2023/01/27 14:15			2023/01/27 15:00	2023/01/27 15:55		
COC Number			910867-01-01			910867-01-01	910867-01-01		
	UNITS	Criteria	BH101	RDL	QC Batch	BH102	BH103	RDL	QC Batch
Metals									
Mercury (Hg)	ug/L	**0.1**	<0.10	0.10	8483514				
Dissolved Antimony (Sb)	ug/L	**1.5**	<0.50	0.50	8483968	<0.50	<0.50	0.50	8483968
Dissolved Arsenic (As)	ug/L	**13**	<1.0	1.0	8483968	<1.0	<1.0	1.0	8483968
Dissolved Barium (Ba)	ug/L	**610**	89	2.0	8483968	52	41	2.0	8483968
Dissolved Beryllium (Be)	ug/L	**0.5**	<0.40	0.40	8483968	<0.40	<0.40	0.40	8483968
Dissolved Boron (B)	ug/L	**1700**	160	10	8483968	190	1100	10	8483968
Dissolved Cadmium (Cd)	ug/L	**0.5**	<0.090	0.090	8483968	<0.090	0.13	0.090	8483968
Dissolved Chromium (Cr)	ug/L	**11**	<5.0	5.0	8483968	<5.0	<5.0	5.0	8483968
Dissolved Cobalt (Co)	ug/L	**3.8**	<0.50	0.50	8483968	<0.50	<0.50	0.50	8483968
Dissolved Copper (Cu)	ug/L	**5**	**6.9**	0.90	8483968	**7.9**	**18**	0.90	8483968
Dissolved Lead (Pb)	ug/L	**1.9**	<0.50	0.50	8483968	<0.50	0.66	0.50	8483968
Dissolved Molybdenum (Mo)	ug/L	**23**	18	0.50	8483968	2.9	1.5	0.50	8483968
Dissolved Nickel (Ni)	ug/L	**14**	2.5	1.0	8483968	2.2	**35**	1.0	8483968
Dissolved Selenium (Se)	ug/L	**5**	2.8	2.0	8483968	<2.0	<2.0	2.0	8483968
Dissolved Silver (Ag)	ug/L	**0.3**	<0.090	0.090	8483968	<0.090	<0.090	0.090	8483968
Dissolved Sodium (Na)	ug/L	**490000**	110000	100	8483968	44000	460000	100	8483968
Dissolved Thallium (Tl)	ug/L	**0.5**	<0.050	0.050	8483968	<0.050	<0.050	0.050	8483968
Dissolved Uranium (U)	ug/L	**8.9**	**13**	0.10	8483968	5.6	**24**	0.10	8483968
Dissolved Vanadium (V)	ug/L	**3.9**	<0.50	0.50	8483968	<0.50	<0.50	0.50	8483968
Dissolved Zinc (Zn)	ug/L	**160**	6.4	5.0	8483968	6.9	15	5.0	8483968

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

Bureau Veritas - Partial/Rush Results

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

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

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Bureau Veritas Job #: C329309
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID			UYF325		
Sampling Date			2023/01/27 14:15		
COC Number			910867-01-01		
	UNITS	Criteria	QAQC 101	RDL	QC Batch
Metals					
Mercury (Hg)	ug/L	**0.1**	<0.10	0.10	8485335

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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Bureau Veritas Job #: C329309
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID			UYF322	UYF323	UYF324		
Sampling Date			2023/01/27 14:15	2023/01/27 15:00	2023/01/27 15:55		
COC Number			910867-01-01	910867-01-01	910867-01-01		
	UNITS	Criteria	BH101	BH102	BH103	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	**2**	<0.071	<0.071	<0.071	0.071	8478357
Polyaromatic Hydrocarbons							
Benzo(e)pyrene	ug/L	-	<0.050	<0.050	<0.050	0.050	8482741
Acenaphthene	ug/L	**4.1**	<0.050	<0.050	<0.050	0.050	8482741
Acenaphthylene	ug/L	**1**	<0.050	<0.050	<0.050	0.050	8482741
Anthracene	ug/L	**0.1**	<0.050	<0.050	<0.050	0.050	8482741
Benzo(a)anthracene	ug/L	**0.2**	<0.050	<0.050	<0.050	0.050	8482741
Benzo(a)pyrene	ug/L	**0.01**	<0.0090	<0.0090	<0.0090	0.0090	8482741
Benzo(b/j)fluoranthene	ug/L	**0.1**	<0.050	<0.050	<0.050	0.050	8482741
Benzo(g,h,i)perylene	ug/L	**0.2**	<0.050	<0.050	<0.050	0.050	8482741
Benzo(k)fluoranthene	ug/L	**0.1**	<0.050	<0.050	<0.050	0.050	8482741
Chrysene	ug/L	**0.1**	<0.050	<0.050	<0.050	0.050	8482741
Dibenzo(a,h)anthracene	ug/L	**0.2**	<0.050	<0.050	<0.050	0.050	8482741
Fluoranthene	ug/L	**0.4**	<0.050	<0.050	<0.050	0.050	8482741
Fluorene	ug/L	**120**	<0.050	<0.050	<0.050	0.050	8482741
Indeno(1,2,3-cd)pyrene	ug/L	**0.2**	<0.050	<0.050	<0.050	0.050	8482741
1-Methylnaphthalene	ug/L	**2**	<0.050	<0.050	<0.050	0.050	8482741
2-Methylnaphthalene	ug/L	**2**	<0.050	<0.050	<0.050	0.050	8482741
Naphthalene	ug/L	**7**	<0.050	<0.050	<0.050	0.050	8482741
Phenanthrene	ug/L	**0.1**	<0.030	<0.030	<0.030	0.030	8482741
Pyrene	ug/L	**0.2**	<0.050	<0.050	<0.050	0.050	8482741
Perylene	ug/L	-	<0.050	<0.050	<0.050	0.050	8482741
Surrogate Recovery (%)							
D10-Anthracene	%	-	108	109	109		8482741
D14-Terphenyl (FS)	%	-	94	99	89		8482741
D8-Acenaphthylene	%	-	99	95	96		8482741

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
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Bureau Veritas Job #: C329309
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID			UYF322	UYF323	UYF324		UYF326		
Sampling Date			2023/01/27 14:15	2023/01/27 15:00	2023/01/27 15:55		2023/01/27 15:00		
COC Number			910867-01-01	910867-01-01	910867-01-01		910867-01-01		
	UNITS	Criteria	BH101	BH102	BH103	QC Batch	QAQAC 102	RDL	QC Batch
BTEX & F1 Hydrocarbons									
Benzene	ug/L	**0.5**	<0.20	<0.20	<0.20	8484335	<0.20	0.20	8484335
Toluene	ug/L	**0.8**	<0.20	<0.20	<0.20	8484335	<0.20	0.20	8484335
Ethylbenzene	ug/L	**0.5**	<0.20	<0.20	<0.20	8484335	<0.20	0.20	8484335
o-Xylene	ug/L	-	<0.20	<0.20	<0.20	8484335	<0.20	0.20	8484335
p+m-Xylene	ug/L	-	<0.40	<0.40	<0.40	8484335	<0.40	0.40	8484335
Total Xylenes	ug/L	**72**	<0.40	<0.40	<0.40	8484335	<0.40	0.40	8484335
F1 (C6-C10)	ug/L	**420**	<25	<25	<25	8484335	<25	25	8484335
F1 (C6-C10) - BTEX	ug/L	**420**	<25	<25	<25	8484335	<25	25	8484335
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	**150**	<100	<100	<100	8482723	<100	100	8484862
F3 (C16-C34 Hydrocarbons)	ug/L	**500**	<200	<200	<200	8482723	<200	200	8484862
F4 (C34-C50 Hydrocarbons)	ug/L	**500**	<200	<200	<200	8482723	<200	200	8484862
Reached Baseline at C50	ug/L	-	Yes	Yes	Yes	8482723	Yes		8484862
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-	89	90	90	8484335	90		8484335
4-Bromofluorobenzene	%	-	107	107	106	8484335	105		8484335
D10-o-Xylene	%	-	92	87	91	8484335	91		8484335
D4-1,2-Dichloroethane	%	-	95	94	95	8484335	94		8484335
o-Terphenyl	%	-	96	95	94	8482723	89		8484862

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

Bureau Veritas - Partial/Rush Results

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Bureau Veritas Job #: C329309
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID			UYF327		
Sampling Date					
COC Number			910867-01-01		
	UNITS	Criteria	TRIP BLANK	RDL	QC Batch
BTEX & F1 Hydrocarbons					
Benzene	ug/L	**0.5**	<0.20	0.20	8484335
Toluene	ug/L	**0.8**	<0.20	0.20	8484335
Ethylbenzene	ug/L	**0.5**	<0.20	0.20	8484335
o-Xylene	ug/L	-	<0.20	0.20	8484335
p+m-Xylene	ug/L	-	<0.40	0.40	8484335
Total Xylenes	ug/L	**72**	<0.40	0.40	8484335
F1 (C6-C10)	ug/L	**420**	<25	25	8484335
F1 (C6-C10) - BTEX	ug/L	**420**	<25	25	8484335
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	-	90		8484335
4-Bromofluorobenzene	%	-	106		8484335
D10-o-Xylene	%	-	93		8484335
D4-1,2-Dichloroethane	%	-	93		8484335

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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Bureau Veritas Job #: C329309
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID			UYF325		
Sampling Date			2023/01/27 14:15		
COC Number			910867-01-01		
	UNITS	Criteria	QAQC 101	RDL	QC Batch
Calculated Parameters					
Chlordane (Total)	ug/L	-	<0.005	0.005	8479790
o,p-DDD + p,p-DDD	ug/L	-	<0.005	0.005	8479790
o,p-DDE + p,p-DDE	ug/L	-	<0.005	0.005	8479790
o,p-DDT + p,p-DDT	ug/L	-	<0.005	0.005	8479790
Total Endosulfan	ug/L	-	<0.005	0.005	8479790
Total PCB	ug/L	**0.2**	<0.05	0.05	8479790
Pesticides & Herbicides					
Aldrin	ug/L	**0.01**	<0.005	0.005	8492654
Dieldrin	ug/L	**0.05**	<0.005	0.005	8492654
a-Chlordane	ug/L	**0.06**	<0.005	0.005	8492654
g-Chlordane	ug/L	**0.06**	<0.005	0.005	8492654
o,p-DDD	ug/L	**1.8**	<0.005	0.005	8492654
p,p-DDD	ug/L	**1.8**	<0.005	0.005	8492654
o,p-DDE	ug/L	**10**	<0.005	0.005	8492654
p,p-DDE	ug/L	**10**	<0.005	0.005	8492654
o,p-DDT	ug/L	**0.05**	<0.005	0.005	8492654
p,p-DDT	ug/L	**0.05**	<0.005	0.005	8492654
Lindane	ug/L	**0.01**	<0.003	0.003	8492654
Endosulfan I (alpha)	ug/L	**0.05**	<0.005	0.005	8492654
Endosulfan II (beta)	ug/L	**0.05**	<0.005	0.005	8492654
Endrin	ug/L	**0.05**	<0.005	0.005	8492654
Heptachlor	ug/L	**0.01**	<0.005	0.005	8492654
Heptachlor epoxide	ug/L	**0.01**	<0.005	0.005	8492654
Hexachlorobenzene	ug/L	**0.01**	<0.005	0.005	8492654
Hexachlorobutadiene	ug/L	**0.01**	<0.009	0.009	8492654
Hexachloroethane	ug/L	**0.01**	<0.01	0.01	8492654
Methoxychlor	ug/L	**0.05**	<0.01	0.01	8492654
Aroclor 1242	ug/L	**-**	<0.05	0.05	8492654
Aroclor 1248	ug/L	**-**	<0.05	0.05	8492654
Aroclor 1254	ug/L	**-**	<0.05	0.05	8492654
Aroclor 1260	ug/L	**-**	<0.05	0.05	8492654

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

Bureau Veritas - Partial/Rush Results

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

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

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Bureau Veritas Job #: C329309
Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

ORGANOCHLORINATED PESTICIDES BY GC-ECD (WATER)

Bureau Veritas ID			UYF325		
Sampling Date			2023/01/27 14:15		
COC Number			910867-01-01		
	UNITS	**Criteria**	**QAQC 101**	**RDL**	**QC Batch**
Surrogate Recovery (%)					
2,4,5,6-Tetrachloro-m-xylene	%	-	54		8492654
Decachlorobiphenyl	%	-	83		8492654

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses

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Report Date: 2023/02/10

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

GENERAL COMMENTS

Results relate only to the items tested.

Bureau Veritas - Partial/Rush Results

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Bureau Veritas Partial/Rush Results

Bureau Veritas Job #: C329309
Report Date: 2023/02/10

QUALITY ASSURANCE REPORT

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8482723	o-Terphenyl	2023/02/02	99	60 - 130	95	60 - 130	97	%		
8482741	D10-Anthracene	2023/02/02	104	50 - 130	108	50 - 130	112	%		
8482741	D14-Terphenyl (FS)	2023/02/02	96	50 - 130	97	50 - 130	101	%		
8482741	D8-Acenaphthylene	2023/02/02	97	50 - 130	96	50 - 130	98	%		
8484335	1,4-Difluorobenzene	2023/02/02	90	70 - 130	91	70 - 130	89	%		
8484335	4-Bromofluorobenzene	2023/02/02	106	70 - 130	107	70 - 130	109	%		
8484335	D10-o-Xylene	2023/02/02	89	70 - 130	89	70 - 130	91	%		
8484335	D4-1,2-Dichloroethane	2023/02/02	95	70 - 130	89	70 - 130	93	%		
8484862	o-Terphenyl	2023/02/03	101	60 - 130	99	60 - 130	93	%		
8492654	2,4,5,6-Tetrachloro-m-xylene	2023/02/09	50	50 - 130	63	50 - 130	56	%		
8492654	Decachlorobiphenyl	2023/02/09	77	50 - 130	84	50 - 130	78	%		
8482723	F2 (C10-C16 Hydrocarbons)	2023/02/02	99	60 - 130	98	60 - 130	<100	ug/L	NC	30
8482723	F3 (C16-C34 Hydrocarbons)	2023/02/02	98	60 - 130	99	60 - 130	<200	ug/L	NC	30
8482723	F4 (C34-C50 Hydrocarbons)	2023/02/02	101	60 - 130	102	60 - 130	<200	ug/L	NC	30
8482741	1-Methylnaphthalene	2023/02/02	109	50 - 130	73	50 - 130	<0.050	ug/L	NC	30
8482741	2-Methylnaphthalene	2023/02/02	109	50 - 130	74	50 - 130	<0.050	ug/L	NC	30
8482741	Acenaphthene	2023/02/02	98	50 - 130	94	50 - 130	<0.050	ug/L	NC	30
8482741	Acenaphthylene	2023/02/02	99	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
8482741	Anthracene	2023/02/02	98	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
8482741	Benzo(a)anthracene	2023/02/02	105	50 - 130	106	50 - 130	<0.050	ug/L	NC	30
8482741	Benzo(a)pyrene	2023/02/02	102	50 - 130	105	50 - 130	<0.0090	ug/L	NC	30
8482741	Benzo(b/j)fluoranthene	2023/02/02	99	50 - 130	103	50 - 130	<0.050	ug/L	NC	30
8482741	Benzo(e)pyrene	2023/02/02	97	50 - 130	101	50 - 130	<0.050	ug/L		
8482741	Benzo(g,h,i)perylene	2023/02/02	99	50 - 130	103	50 - 130	<0.050	ug/L	NC	30
8482741	Benzo(k)fluoranthene	2023/02/02	103	50 - 130	108	50 - 130	<0.050	ug/L	NC	30
8482741	Chrysene	2023/02/02	102	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8482741	Dibenzo(a,h)anthracene	2023/02/02	98	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
8482741	Fluoranthene	2023/02/02	99	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8482741	Fluorene	2023/02/02	101	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
8482741	Indeno(1,2,3-cd)pyrene	2023/02/02	99	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8482741	Naphthalene	2023/02/02	89	50 - 130	85	50 - 130	<0.050	ug/L	NC	30

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Bureau Veritas - Partial/Rush Results

Bureau Veritas Job #: C329309
Report Date: 2023/02/10

QUALITY ASSURANCE REPORT(CONT'D)

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8482741	Perylene	2023/02/02	102	50 - 130	106	50 - 130	<0.050	ug/L		
8482741	Phenanthrene	2023/02/02	104	50 - 130	103	50 - 130	<0.030	ug/L	NC	30
8482741	Pyrene	2023/02/02	103	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
8483514	Mercury (Hg)	2023/02/02	103	75 - 125	109	80 - 120	<0.10	ug/L	NC	20
8483710	Conductivity	2023/02/02			101	85 - 115	<0.0010	mS/cm	0.60	25
8483968	Dissolved Antimony (Sb)	2023/02/03	111	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
8483968	Dissolved Arsenic (As)	2023/02/03	102	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
8483968	Dissolved Barium (Ba)	2023/02/03	102	80 - 120	99	80 - 120	<2.0	ug/L	0.19	20
8483968	Dissolved Beryllium (Be)	2023/02/03	105	80 - 120	100	80 - 120	<0.40	ug/L	NC	20
8483968	Dissolved Boron (B)	2023/02/03	104	80 - 120	100	80 - 120	<10	ug/L	2.7	20
8483968	Dissolved Cadmium (Cd)	2023/02/03	104	80 - 120	100	80 - 120	<0.090	ug/L	2.7	20
8483968	Dissolved Chromium (Cr)	2023/02/03	100	80 - 120	98	80 - 120	<5.0	ug/L	NC	20
8483968	Dissolved Cobalt (Co)	2023/02/03	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
8483968	Dissolved Copper (Cu)	2023/02/03	108	80 - 120	101	80 - 120	<0.90	ug/L	4.1	20
8483968	Dissolved Lead (Pb)	2023/02/03	98	80 - 120	100	80 - 120	<0.50	ug/L	1.7	20
8483968	Dissolved Molybdenum (Mo)	2023/02/03	113	80 - 120	104	80 - 120	<0.50	ug/L	0.67	20
8483968	Dissolved Nickel (Ni)	2023/02/03	98	80 - 120	98	80 - 120	<1.0	ug/L	0.82	20
8483968	Dissolved Selenium (Se)	2023/02/03	104	80 - 120	100	80 - 120	<2.0	ug/L	NC	20
8483968	Dissolved Silver (Ag)	2023/02/03	100	80 - 120	103	80 - 120	<0.090	ug/L	NC	20
8483968	Dissolved Sodium (Na)	2023/02/03	NC	80 - 120	102	80 - 120	<100	ug/L	3.6	20
8483968	Dissolved Thallium (Tl)	2023/02/03	101	80 - 120	102	80 - 120	<0.050	ug/L	0	20
8483968	Dissolved Uranium (U)	2023/02/03	103	80 - 120	100	80 - 120	<0.10	ug/L	0.33	20
8483968	Dissolved Vanadium (V)	2023/02/03	103	80 - 120	97	80 - 120	<0.50	ug/L	NC	20
8483968	Dissolved Zinc (Zn)	2023/02/03	NC	80 - 120	99	80 - 120	<5.0	ug/L	0.95	20
8484335	Benzene	2023/02/02	89	50 - 140	86	50 - 140	<0.20	ug/L	NC	30
8484335	Ethylbenzene	2023/02/02	95	50 - 140	95	50 - 140	<0.20	ug/L	NC	30
8484335	F1 (C6-C10) - BTEX	2023/02/02					<25	ug/L	NC	30
8484335	F1 (C6-C10)	2023/02/02	100	60 - 140	97	60 - 140	<25	ug/L	NC	30
8484335	o-Xylene	2023/02/02	92	50 - 140	91	50 - 140	<0.20	ug/L	NC	30
8484335	p+m-Xylene	2023/02/02	90	50 - 140	91	50 - 140	<0.40	ug/L	NC	30
8484335	Toluene	2023/02/02	84	50 - 140	82	50 - 140	<0.20	ug/L	NC	30

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Bureau Veritas | Partial/Rush Results

Bureau Veritas Job #: C329309
Report Date: 2023/02/10

QUALITY ASSURANCE REPORT(CONT'D)

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8484335	Total Xylenes	2023/02/02					<0.40	ug/L	NC	30
8484862	F2 (C10-C16 Hydrocarbons)	2023/02/03	99	60 - 130	100	60 - 130	<100	ug/L	NC	30
8484862	F3 (C16-C34 Hydrocarbons)	2023/02/03	101	60 - 130	105	60 - 130	<200	ug/L	NC	30
8484862	F4 (C34-C50 Hydrocarbons)	2023/02/03	103	60 - 130	105	60 - 130	<200	ug/L	NC	30
8485335	Mercury (Hg)	2023/02/03	99	75 - 125	99	80 - 120	<0.10	ug/L	NC	20
8492654	a-Chlordane	2023/02/09	83	50 - 130	93	50 - 130	<0.005	ug/L	0.26	30
8492654	Aldrin	2023/02/09	75	50 - 130	82	50 - 130	<0.005	ug/L	2.5	30
8492654	Aroclor 1242	2023/02/09					<0.05	ug/L		
8492654	Aroclor 1248	2023/02/09					<0.05	ug/L		
8492654	Aroclor 1254	2023/02/09					<0.05	ug/L		
8492654	Aroclor 1260	2023/02/09					<0.05	ug/L		
8492654	Dieldrin	2023/02/09	92	50 - 130	102	50 - 130	<0.005	ug/L	2.0	30
8492654	Endosulfan I (alpha)	2023/02/09	93	50 - 130	106	50 - 130	<0.005	ug/L	2.9	30
8492654	Endosulfan II (beta)	2023/02/09	78	50 - 130	88	50 - 130	<0.005	ug/L	1.6	30
8492654	Endrin	2023/02/09	87	50 - 130	96	50 - 130	<0.005	ug/L	2.4	30
8492654	g-Chlordane	2023/02/09	87	50 - 130	94	50 - 130	<0.005	ug/L	1.0	30
8492654	Heptachlor epoxide	2023/02/09	91	50 - 130	98	50 - 130	<0.005	ug/L	0.77	30
8492654	Heptachlor	2023/02/09	82	50 - 130	89	50 - 130	<0.005	ug/L	0.27	30
8492654	Hexachlorobenzene	2023/02/09	77	50 - 130	87	50 - 130	<0.005	ug/L	NC	30
8492654	Hexachlorobutadiene	2023/02/09	66	50 - 130	78	50 - 130	<0.009	ug/L	9.9	30
8492654	Hexachloroethane	2023/02/09	59	50 - 130	65	50 - 130	<0.01	ug/L	5.7	30
8492654	Lindane	2023/02/09	81	50 - 130	90	50 - 130	<0.003	ug/L	0.20	30
8492654	Methoxychlor	2023/02/09	83	50 - 130	95	50 - 130	<0.01	ug/L	0.82	30
8492654	o,p-DDD	2023/02/09	89	50 - 130	98	50 - 130	<0.005	ug/L	3.0	30
8492654	o,p-DDE	2023/02/09	87	50 - 130	89	50 - 130	<0.005	ug/L	4.8	30
8492654	o,p-DDT	2023/02/09	82	50 - 130	89	50 - 130	<0.005	ug/L	3.0	30
8492654	p,p-DDD	2023/02/09	89	50 - 130	101	50 - 130	<0.005	ug/L	1.5	30
8492654	p,p-DDE	2023/02/09	95	50 - 130	107	50 - 130	<0.005	ug/L	2.2	30

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Bureau Veritas - Partial/Rush Results

Bureau Veritas Job #: C329309
Report Date: 2023/02/10

QUALITY ASSURANCE REPORT(CONT'D)

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8492654	p,p-DDT	2023/02/09	89	50 - 130	89	50 - 130	<0.005	ug/L	3.0	30

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

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

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

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

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

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

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

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Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: MH

VALIDATION SIGNATURE PAGE

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

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior 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 - Partial/Rush Results

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Bureau Veritas - Partial/Rush Results

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CHAIN OF CUSTODY RECORD

31-Jan-23 14:25
Gemarie Balatico
C329309
RUK ENV-1228
C#910867-01-01
Gemarie Balatico

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#17950 Cambium Environmental Inc	Company Name:		Quotation #:	C21984
Attention:	ACCOUNTS PAYABLE	Attention:	Sharif Nawyaz	P.O. #:	
Address:	194 Sophia Street PO Box 325	Address:	Natalie.Wright@cambium-inc.com	Project:	14455-002
	Peterborough ON K9H 1E5			Project Name:	
Tel:	(705) 742-7900 Fax: (705) 742-7907	Tel:	(866) 217-7900 Fax:	Site #:	
Email:	accounting@cambium-inc.com	Email:	Sharif.Nawyaz@cambium-inc.com	Sampled By:	M. Haliganski

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): [X] Table 1 [X] Res/Park [ ] Medium/Fine; [ ] Table 2 [X] 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: [X]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

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

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 VOCs by HS & F1-F4	O.Reg 153 PAHs	O.Reg 153 Dissolved ICPMS Metals (Water)	O.Reg 153 PCBs (Water)	Sodium Adsorption Ratio (SAR)	Conductivity	O.Reg 153 PHCs, BTEX/F1-F4	Mercury	OCPs		# of Bottles	Comments
1		BH101	27-Jan-23	14:15	GW	Y		X	X	X	X	X	X	X	X		8	
2		BH102		15:00	GW	Y		X	X		X	X	X				5	
3		BH103		15:55	GW	Y		X	X		X	X	X				5	
4		QAQC101		14:15	GW	Y				X				X	X		3	
5		QAQC102		15:00	GW	Y							X				3	
6		TRIP BLANK			GW		X										1	
7					GW													
8					GW													
9					GW													
10					GW													

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
M. Haliganski	23/01/31		SHWETA PATEL	2023/01/31	14:25	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	3 | 4 | 2	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.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Your Project #: 14455-002
Your C.O.C. #: na

Attention: Natalie Wright

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2023/01/05
Report #: R7454769
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2AQ680
Received: 2022/12/22, 15:45

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	4	N/A	2023/01/04	CAM SOP-00301	EPA 8270D m
Petroleum Hydro. CCME F1 & BTEX in Water	4	N/A	2022/12/30	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	4	2022/12/29	2022/12/31	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	4	N/A	2023/01/04	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	4	2023/01/04	2023/01/04	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	4	2022/12/29	2022/12/30	CAM SOP-00318	EPA 8270D m

Remarks:

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

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

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

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

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

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas 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

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Your Project #: 14455-002
Your C.O.C. #: na

Attention: Natalie Wright

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2023/01/05
Report #: R7454769
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2AQ680
Received: 2022/12/22, 15:45

reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Gemarie Balatico, Project Manager
Email: Gemarie.Balatico@bureauveritas.com
Phone# (905)817-5787

==========

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.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID				UQZ308	UQZ309	UQZ310	UQZ311		
Sampling Date				2022/12/20	2022/12/21	2022/12/21	2022/12/20		
COC Number				na	na	na	na		
	UNITS	Criteria	Criteria-2	SW101	SW102	SW103	QA/QC#1	RDL	QC Batch
Metals									
Total Antimony (Sb)	ug/L	1.5	20	<0.50	<0.50	<0.50	0.61	0.50	8431572
Total Arsenic (As)	ug/L	13	100	1.9	1.0	<1.0	5.6	1.0	8431572
Total Beryllium (Be)	ug/L	0.5	11	<0.40	<0.40	<0.40	<0.40	0.40	8431572
Total Boron (B)	ug/L	1700	200	**1300**	**1300**	**1300**	**1200**	10	8431572
Total Cadmium (Cd)	ug/L	0.5	0.2	<0.090	<0.090	<0.090	0.18	0.090	8431572
Total Chromium (Cr)	ug/L	11	-	<5.0	<5.0	**54**	8.7	5.0	8431572
Total Cobalt (Co)	ug/L	3.8	0.9	**2.5**	**1.5**	0.83	**6.3**	0.50	8431572
Total Copper (Cu)	ug/L	5	5	**5.1**	2.9	2.5	**11**	0.90	8431572
Total Iron (Fe)	ug/L	-	300	**4400**	**2700**	**1600**	**11000**	100	8431572
Total Lead (Pb)	ug/L	1.9	5	**2.8**	1.6	0.98	**6.2**	0.50	8431572
Total Molybdenum (Mo)	ug/L	23	40	12	11	12	13	0.50	8431572
Total Nickel (Ni)	ug/L	14	25	6.9	4.7	5.1	14	1.0	8431572
Total Selenium (Se)	ug/L	5	100	<2.0	<2.0	<2.0	<2.0	2.0	8431572
Total Silver (Ag)	ug/L	0.3	0.1	<0.090	<0.090	<0.090	<0.090	0.090	8431572
Total Thallium (Tl)	ug/L	0.5	0.3	<0.050	<0.050	<0.050	0.13	0.050	8431572
Total Tungsten (W)	ug/L	-	30	<1.0	<1.0	<1.0	<1.0	1.0	8431572
Total Uranium (U)	ug/L	8.9	5	**10**	**9.7**	**9.4**	**10**	0.10	8431572
Total Vanadium (V)	ug/L	3.9	6	**6.0**	3.5	2.0	**15**	0.50	8431572
Total Zinc (Zn)	ug/L	160	30	**48**	16	20	**130**	5.0	8431572
Total Zirconium (Zr)	ug/L	-	4	<1.0	<1.0	<1.0	1.0	1.0	8431572

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses
Criteria-2: Ontario Provincial Water Quality Objectives
Ref. to MOEE Water Management document dated Feb.1999

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

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

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Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 DISSOLVED ICPMS METALS (WATER)

Bureau Veritas ID				UQZ308	UQZ309	UQZ310	UQZ311		
Sampling Date				2022/12/20	2022/12/21	2022/12/21	2022/12/20		
COC Number				na	na	na	na		
	UNITS	Criteria	Criteria-2	SW101	SW102	SW103	QA/QC#1	RDL	QC Batch
Metals									
Dissolved Antimony (Sb)	ug/L	1.5	20	<0.50	<0.50	<0.50	<0.50	0.50	8424065
Dissolved Arsenic (As)	ug/L	13	100	<1.0	<1.0	<1.0	<1.0	1.0	8424065
Dissolved Barium (Ba)	ug/L	610	-	130	130	130	130	2.0	8424065
Dissolved Beryllium (Be)	ug/L	0.5	11	<0.40	<0.40	<0.40	<0.40	0.40	8424065
Dissolved Boron (B)	ug/L	1700	200	**1200**	**1300**	**1300**	**1200**	10	8424065
Dissolved Cadmium (Cd)	ug/L	0.5	0.2	<0.090	<0.090	<0.090	<0.090	0.090	8424065
Dissolved Chromium (Cr)	ug/L	11	-	<5.0	<5.0	<5.0	<5.0	5.0	8424065
Dissolved Cobalt (Co)	ug/L	3.8	0.9	<0.50	<0.50	<0.50	<0.50	0.50	8424065
Dissolved Copper (Cu)	ug/L	5	5	<0.90	<0.90	<0.90	<0.90	0.90	8424065
Dissolved Lead (Pb)	ug/L	1.9	5	<0.50	<0.50	<0.50	<0.50	0.50	8424065
Dissolved Molybdenum (Mo)	ug/L	23	40	11	11	12	11	0.50	8424065
Dissolved Nickel (Ni)	ug/L	14	25	1.3	1.6	1.7	1.4	1.0	8424065
Dissolved Selenium (Se)	ug/L	5	100	<2.0	<2.0	<2.0	<2.0	2.0	8424065
Dissolved Silver (Ag)	ug/L	0.3	0.1	<0.090	<0.090	<0.090	<0.090	0.090	8424065
Dissolved Sodium (Na)	ug/L	490000	-	410000	410000	410000	410000	100	8424065
Dissolved Thallium (Tl)	ug/L	0.5	0.3	<0.050	<0.050	<0.050	<0.050	0.050	8424065
Dissolved Uranium (U)	ug/L	8.9	5	**9.1**	**9.5**	**9.5**	**9.1**	0.10	8424065
Dissolved Vanadium (V)	ug/L	3.9	6	<0.50	<0.50	<0.50	<0.50	0.50	8424065
Dissolved Zinc (Zn)	ug/L	160	30	<5.0	5.0	5.5	<5.0	5.0	8424065

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses
Criteria-2: Ontario Provincial Water Quality Objectives
Ref. to MOEE Water Management document dated Feb.1999

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Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PAHS (WATER)

Bureau Veritas ID				UQZ308	UQZ309	UQZ310	UQZ311		
Sampling Date				2022/12/20	2022/12/21	2022/12/21	2022/12/20		
COC Number				na	na	na	na		
	UNITS	Criteria	Criteria-2	SW101	SW102	SW103	QA/QC#1	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	2	-	<0.071	<0.071	<0.071	<0.071	0.071	8418419
Polyaromatic Hydrocarbons									
Benzo(e)pyrene	ug/L	-	-	<0.050	<0.050	<0.050	<0.050	0.050	8426446
Acenaphthene	ug/L	4.1	-	<0.050	<0.050	<0.050	<0.050	0.050	8426446
Acenaphthylene	ug/L	1	-	<0.050	<0.050	<0.050	<0.050	0.050	8426446
Anthracene	ug/L	0.1	0.0008	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	8426446
Benzo(a)anthracene	ug/L	0.2	0.0004	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	8426446
Benzo(a)pyrene	ug/L	0.01	-	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	8426446
Benzo(b/j)fluoranthene	ug/L	0.1	-	<0.050	<0.050	<0.050	<0.050	0.050	8426446
Benzo(g,h,i)perylene	ug/L	0.2	0.00002	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	8426446
Benzo(k)fluoranthene	ug/L	0.1	0.0002	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	8426446
Chrysene	ug/L	0.1	0.0001	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	8426446
Dibenzo(a,h)anthracene	ug/L	0.2	0.002	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	8426446
Fluoranthene	ug/L	0.4	0.0008	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	8426446
Fluorene	ug/L	120	0.2	<0.050	<0.050	<0.050	<0.050	0.050	8426446
Indeno(1,2,3-cd)pyrene	ug/L	0.2	-	<0.050	<0.050	<0.050	<0.050	0.050	8426446
1-Methylnaphthalene	ug/L	2	2	<0.050	<0.050	<0.050	<0.050	0.050	8426446
2-Methylnaphthalene	ug/L	2	2	<0.050	<0.050	<0.050	<0.050	0.050	8426446
Naphthalene	ug/L	7	7	<0.050	<0.050	<0.050	<0.050	0.050	8426446
Phenanthrene	ug/L	0.1	0.03	<0.030	<0.030	<0.030	<0.030	0.030	8426446
Pyrene	ug/L	0.2	-	<0.050	<0.050	<0.050	<0.050	0.050	8426446
Perylene	ug/L	-	0.00007	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	8426446
Surrogate Recovery (%)									
D10-Anthracene	%	-	-	114	106	105	108		8426446
D14-Terphenyl (FS)	%	-	-	109	111	107	112		8426446
D8-Acenaphthylene	%	-	-	106	100	98	99		8426446

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses
Criteria-2: Ontario Provincial Water Quality Objectives
Ref. to MOEE Water Management document dated Feb.1999
(1) RDL exceeds criteria

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Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID				UQZ308	UQZ309	UQZ310	UQZ311		
Sampling Date				2022/12/20	2022/12/21	2022/12/21	2022/12/20		
COC Number				na	na	na	na		
	UNITS	Criteria	Criteria-2	SW101	SW102	SW103	QA/QC#1	RDL	QC Batch
BTEX & F1 Hydrocarbons									
Benzene	ug/L	0.5	100	<0.20	<0.20	<0.20	<0.20	0.20	8427406
Toluene	ug/L	0.8	0.8	<0.20	<0.20	<0.20	<0.20	0.20	8427406
Ethylbenzene	ug/L	0.5	8	<0.20	<0.20	<0.20	<0.20	0.20	8427406
o-Xylene	ug/L	-	40	<0.20	<0.20	<0.20	<0.20	0.20	8427406
p+m-Xylene	ug/L	-	2	<0.40	<0.40	<0.40	<0.40	0.40	8427406
Total Xylenes	ug/L	72	-	<0.40	<0.40	<0.40	<0.40	0.40	8427406
F1 (C6-C10)	ug/L	420	-	<25	<25	<25	<25	25	8427406
F1 (C6-C10) - BTEX	ug/L	420	-	<25	<25	<25	<25	25	8427406
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	150	-	<100	<100	<100	<100	100	8426455
F3 (C16-C34 Hydrocarbons)	ug/L	500	-	<200	<200	<200	<200	200	8426455
F4 (C34-C50 Hydrocarbons)	ug/L	500	-	<200	<200	<200	<200	200	8426455
Reached Baseline at C50	ug/L	-	-	Yes	Yes	Yes	Yes		8426455
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	-	-	98	99	100	100		8427406
4-Bromofluorobenzene	%	-	-	95	94	96	95		8427406
D10-o-Xylene	%	-	-	90	95	97	91		8427406
D4-1,2-Dichloroethane	%	-	-	92	91	92	92		8427406
o-Terphenyl	%	-	-	86	89	88	89		8426455

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Ground Water - All Types of Property Uses
Criteria-2: Ontario Provincial Water Quality Objectives
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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

TEST SUMMARY

Bureau Veritas ID: UQZ308
Sample ID: SW101
Matrix: Water

Collected: 2022/12/20
Shipped:
Received: 2022/12/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8418419	N/A	2023/01/04	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8427406	N/A	2022/12/30	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8426455	2022/12/29	2022/12/31	Anna Stuglik-Rolland
Dissolved Metals by ICPMS	ICP/MS	8424065	N/A	2023/01/04	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8431572	2023/01/04	2023/01/04	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8426446	2022/12/29	2022/12/30	Mitesh Raj

Bureau Veritas ID: UQZ309
Sample ID: SW102
Matrix: Water

Collected: 2022/12/21
Shipped:
Received: 2022/12/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8418419	N/A	2023/01/04	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8427406	N/A	2022/12/30	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8426455	2022/12/29	2022/12/31	Anna Stuglik-Rolland
Dissolved Metals by ICPMS	ICP/MS	8424065	N/A	2023/01/04	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8431572	2023/01/04	2023/01/04	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8426446	2022/12/29	2022/12/30	Mitesh Raj

Bureau Veritas ID: UQZ310
Sample ID: SW103
Matrix: Water

Collected: 2022/12/21
Shipped:
Received: 2022/12/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8418419	N/A	2023/01/04	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8427406	N/A	2022/12/30	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8426455	2022/12/29	2022/12/31	Anna Stuglik-Rolland
Dissolved Metals by ICPMS	ICP/MS	8424065	N/A	2023/01/04	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8431572	2023/01/04	2023/01/04	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8426446	2022/12/29	2022/12/30	Mitesh Raj

Bureau Veritas ID: UQZ311
Sample ID: QA/QC#1
Matrix: Water

Collected: 2022/12/20
Shipped:
Received: 2022/12/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8418419	N/A	2023/01/04	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8427406	N/A	2022/12/30	Domnica Andronescu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8426455	2022/12/29	2022/12/31	Anna Stuglik-Rolland
Dissolved Metals by ICPMS	ICP/MS	8424065	N/A	2023/01/04	Azita Fazaeli
Total Metals Analysis by ICPMS	ICP/MS	8431572	2023/01/04	2023/01/04	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8426446	2022/12/29	2022/12/30	Mitesh Raj

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

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Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.3°C

Results relate only to the items tested.

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Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05

QUALITY ASSURANCE REPORT

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8426446	D10-Anthracene	2022/12/29	99	50 - 130	103	50 - 130	107	%		
8426446	D14-Terphenyl (FS)	2022/12/29	105	50 - 130	103	50 - 130	97	%		
8426446	D8-Acenaphthylene	2022/12/29	100	50 - 130	101	50 - 130	101	%		
8426455	o-Terphenyl	2022/12/30	92	60 - 130	98	60 - 130	97	%		
8427406	1,4-Difluorobenzene	2022/12/30	98	70 - 130	100	70 - 130	100	%		
8427406	4-Bromofluorobenzene	2022/12/30	96	70 - 130	97	70 - 130	94	%		
8427406	D10-o-Xylene	2022/12/30	100	70 - 130	103	70 - 130	90	%		
8427406	D4-1,2-Dichloroethane	2022/12/30	90	70 - 130	88	70 - 130	91	%		
8424065	Dissolved Antimony (Sb)	2023/01/03	108	80 - 120	99	80 - 120	<0.50	ug/L	18	20
8424065	Dissolved Arsenic (As)	2023/01/03	103	80 - 120	95	80 - 120	<1.0	ug/L	NC	20
8424065	Dissolved Barium (Ba)	2023/01/03	100	80 - 120	98	80 - 120	<2.0	ug/L	0.26	20
8424065	Dissolved Beryllium (Be)	2023/01/03	101	80 - 120	97	80 - 120	<0.40	ug/L	NC	20
8424065	Dissolved Boron (B)	2023/01/03	101	80 - 120	106	80 - 120	<10	ug/L	5.7	20
8424065	Dissolved Cadmium (Cd)	2023/01/03	103	80 - 120	98	80 - 120	<0.090	ug/L	NC	20
8424065	Dissolved Chromium (Cr)	2023/01/03	100	80 - 120	95	80 - 120	<5.0	ug/L	NC	20
8424065	Dissolved Cobalt (Co)	2023/01/03	98	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
8424065	Dissolved Copper (Cu)	2023/01/03	101	80 - 120	98	80 - 120	<0.90	ug/L	NC	20
8424065	Dissolved Lead (Pb)	2023/01/03	95	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
8424065	Dissolved Molybdenum (Mo)	2023/01/03	109	80 - 120	101	80 - 120	<0.50	ug/L	2.7	20
8424065	Dissolved Nickel (Ni)	2023/01/03	97	80 - 120	94	80 - 120	<1.0	ug/L	NC	20
8424065	Dissolved Selenium (Se)	2023/01/03	102	80 - 120	97	80 - 120	<2.0	ug/L	NC	20
8424065	Dissolved Silver (Ag)	2023/01/03	95	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
8424065	Dissolved Sodium (Na)	2023/01/03	NC	80 - 120	99	80 - 120	<100	ug/L	1.2	20
8424065	Dissolved Thallium (Tl)	2023/01/03	97	80 - 120	93	80 - 120	<0.050	ug/L	NC	20
8424065	Dissolved Uranium (U)	2023/01/03	105	80 - 120	100	80 - 120	<0.10	ug/L	1.9	20
8424065	Dissolved Vanadium (V)	2023/01/03	104	80 - 120	95	80 - 120	<0.50	ug/L	2.4	20
8424065	Dissolved Zinc (Zn)	2023/01/03	97	80 - 120	96	80 - 120	<5.0	ug/L	2.2	20
8426446	1-Methylnaphthalene	2022/12/29	101	50 - 130	104	50 - 130	<0.050	ug/L	8.0	30
8426446	2-Methylnaphthalene	2022/12/29	95	50 - 130	96	50 - 130	<0.050	ug/L	5.7	30
8426446	Acenaphthene	2022/12/29	102	50 - 130	101	50 - 130	<0.050	ug/L	4.2	30
8426446	Acenaphthylene	2022/12/29	100	50 - 130	102	50 - 130	<0.050	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8426446	Anthracene	2022/12/29	97	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
8426446	Benzo(a)anthracene	2022/12/29	96	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
8426446	Benzo(a)pyrene	2022/12/29	90	50 - 130	91	50 - 130	<0.0090	ug/L	NC	30
8426446	Benzo(b/j)fluoranthene	2022/12/29	92	50 - 130	91	50 - 130	<0.050	ug/L	NC	30
8426446	Benzo(e)pyrene	2022/12/29	97	50 - 130	98	50 - 130	<0.050	ug/L		
8426446	Benzo(g,h,i)perylene	2022/12/29	100	50 - 130	102	50 - 130	<0.050	ug/L	NC	30
8426446	Benzo(k)fluoranthene	2022/12/29	84	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8426446	Chrysene	2022/12/29	95	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
8426446	Dibenzo(a,h)anthracene	2022/12/29	84	50 - 130	85	50 - 130	<0.050	ug/L	NC	30
8426446	Fluoranthene	2022/12/29	103	50 - 130	103	50 - 130	<0.050	ug/L	15	30
8426446	Fluorene	2022/12/29	104	50 - 130	103	50 - 130	<0.050	ug/L	11	30
8426446	Indeno(1,2,3-cd)pyrene	2022/12/29	96	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8426446	Naphthalene	2022/12/29	98	50 - 130	96	50 - 130	<0.050	ug/L	3.9	30
8426446	Perylene	2022/12/29	102	50 - 130	103	50 - 130	<0.050	ug/L		
8426446	Phenanthrene	2022/12/29	100	50 - 130	98	50 - 130	<0.030	ug/L	1.5	30
8426446	Pyrene	2022/12/29	103	50 - 130	103	50 - 130	<0.050	ug/L	2.6	30
8426455	F2 (C10-C16 Hydrocarbons)	2022/12/30	93	60 - 130	100	60 - 130	<100	ug/L	NC	30
8426455	F3 (C16-C34 Hydrocarbons)	2022/12/30	95	60 - 130	104	60 - 130	<200	ug/L	9.5	30
8426455	F4 (C34-C50 Hydrocarbons)	2022/12/30	95	60 - 130	103	60 - 130	<200	ug/L	NC	30
8427406	Benzene	2022/12/30	78	50 - 140	78	50 - 140	<0.20	ug/L	NC	30
8427406	Ethylbenzene	2022/12/30	87	50 - 140	88	50 - 140	<0.20	ug/L	NC	30
8427406	F1 (C6-C10) - BTEX	2022/12/30					<25	ug/L	NC	30
8427406	F1 (C6-C10)	2022/12/30	95	60 - 140	97	60 - 140	<25	ug/L	NC	30
8427406	o-Xylene	2022/12/30	86	50 - 140	86	50 - 140	<0.20	ug/L	NC	30
8427406	p+m-Xylene	2022/12/30	92	50 - 140	93	50 - 140	<0.40	ug/L	NC	30
8427406	Toluene	2022/12/30	78	50 - 140	78	50 - 140	<0.20	ug/L	NC	30
8427406	Total Xylenes	2022/12/30					<0.40	ug/L	NC	30
8431572	Total Antimony (Sb)	2023/01/04	113	80 - 120	111	80 - 120	<0.50	ug/L		
8431572	Total Arsenic (As)	2023/01/04	101	80 - 120	102	80 - 120	<1.0	ug/L	3.6	20
8431572	Total Beryllium (Be)	2023/01/04	105	80 - 120	102	80 - 120	<0.40	ug/L		
8431572	Total Boron (B)	2023/01/04	99	80 - 120	98	80 - 120	<10	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8431572	Total Cadmium (Cd)	2023/01/04	104	80 - 120	104	80 - 120	<0.090	ug/L		
8431572	Total Chromium (Cr)	2023/01/04	94	80 - 120	95	80 - 120	<5.0	ug/L		
8431572	Total Cobalt (Co)	2023/01/04	96	80 - 120	96	80 - 120	<0.50	ug/L		
8431572	Total Copper (Cu)	2023/01/04	97	80 - 120	98	80 - 120	<0.90	ug/L		
8431572	Total Iron (Fe)	2023/01/04	98	80 - 120	98	80 - 120	<100	ug/L		
8431572	Total Lead (Pb)	2023/01/04	99	80 - 120	98	80 - 120	<0.50	ug/L		
8431572	Total Molybdenum (Mo)	2023/01/04	103	80 - 120	100	80 - 120	<0.50	ug/L		
8431572	Total Nickel (Ni)	2023/01/04	94	80 - 120	95	80 - 120	<1.0	ug/L		
8431572	Total Selenium (Se)	2023/01/04	109	80 - 120	106	80 - 120	<2.0	ug/L		
8431572	Total Silver (Ag)	2023/01/04	102	80 - 120	101	80 - 120	<0.090	ug/L		
8431572	Total Thallium (Tl)	2023/01/04	102	80 - 120	101	80 - 120	<0.050	ug/L		
8431572	Total Tungsten (W)	2023/01/04	101	80 - 120	100	80 - 120	<1.0	ug/L		
8431572	Total Uranium (U)	2023/01/04	101	80 - 120	100	80 - 120	<0.10	ug/L		
8431572	Total Vanadium (V)	2023/01/04	96	80 - 120	96	80 - 120	<0.50	ug/L		
8431572	Total Zinc (Zn)	2023/01/04	104	80 - 120	106	80 - 120	<5.0	ug/L		
8431572	Total Zirconium (Zr)	2023/01/04	105	80 - 120	104	80 - 120	<1.0	ug/L		

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

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

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

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

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

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

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

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Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05

Cambium Environmental Inc
Client Project #: 14455-002
Sampler Initials: LW

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

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Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD

ENV COC - 00014v3

22-Dec-22 15:45
Gemarie Balatico
C2AQ680

MUM ENV-936

Invoice Information	Invoice to (requires report) ☑	Report Information (if differs from invoice)		Project Information	
Company :	#17950 Cambium Environmental Inc.	Company:		Quotation #:	
Contact Name:	ACCOUNTS PAYABLE	Contact Name:	Natalie Wright	P.O. #/ AFE#:	
Street Address:	194 Sophia Street PO Box 325	Street Address:		Project #:	14455-002
City:	Peterborough Prov: ON Postal Code: K9H1E5	City:	Prov: Postal Code:	Site #:	
Phone:	(705) 742-7900	Phone:		Site Location:	
Email:	accounting@cambium-inc.com	Email:	Natalie.Wright@cambium-inc.com	Site Location Province:	
Copies:		Copies:		Sampled By:	Logan Wintemute

Regulatory Criteria

REG 153: ☑ Table 1 ☐ Table 2 ☐ Table 3 ☐ Table ____ | ☒ Res/Park ☒ Ind/Comm ☐ Agri/other | ☐ Med/Fine ☐ Course ☒ For RSC

OTHER: ☐ CCME ☐ Reg 558* *min 3 day TAT ☐ MISA ☐ PWQO | ☐ Reg 406, Table: ____ ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw Municipality ____ ☐ Other:

Include Criteria on Certificate of Analysis (check if yes): ☒

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

Regular Turnaround Time (TAT): ☑ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply: ☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY MM DD

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 O.Reg 153 ICP Metals	5 O. Reg 153 BTEX & PHC F1-F4	6 O. Reg 153 PAHs	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE	Comments
1	SW101	22	12	20			Water - Surface				x	x	x															7		
2	SW102	22	12	21			Water - Surface				x	x	x															7		
3	SW103	22	12	21			Water - Surface				x	x	x															7		
4	QA/QC#1	22	12	20			Water - Surface				x	x	x															7		
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY.

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present				1	5	4

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3	Temperature reading by:
Seal present							
Seal intact							
Cooling media present							

	Relinquished by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Special Instructions
1	Logan Wintemute	22	12	22			1	22	12	22	15	45	Unsure of metals req. → provided filtered + preserved unfilt. + preserv., unfilt. + unpres.
2							2						

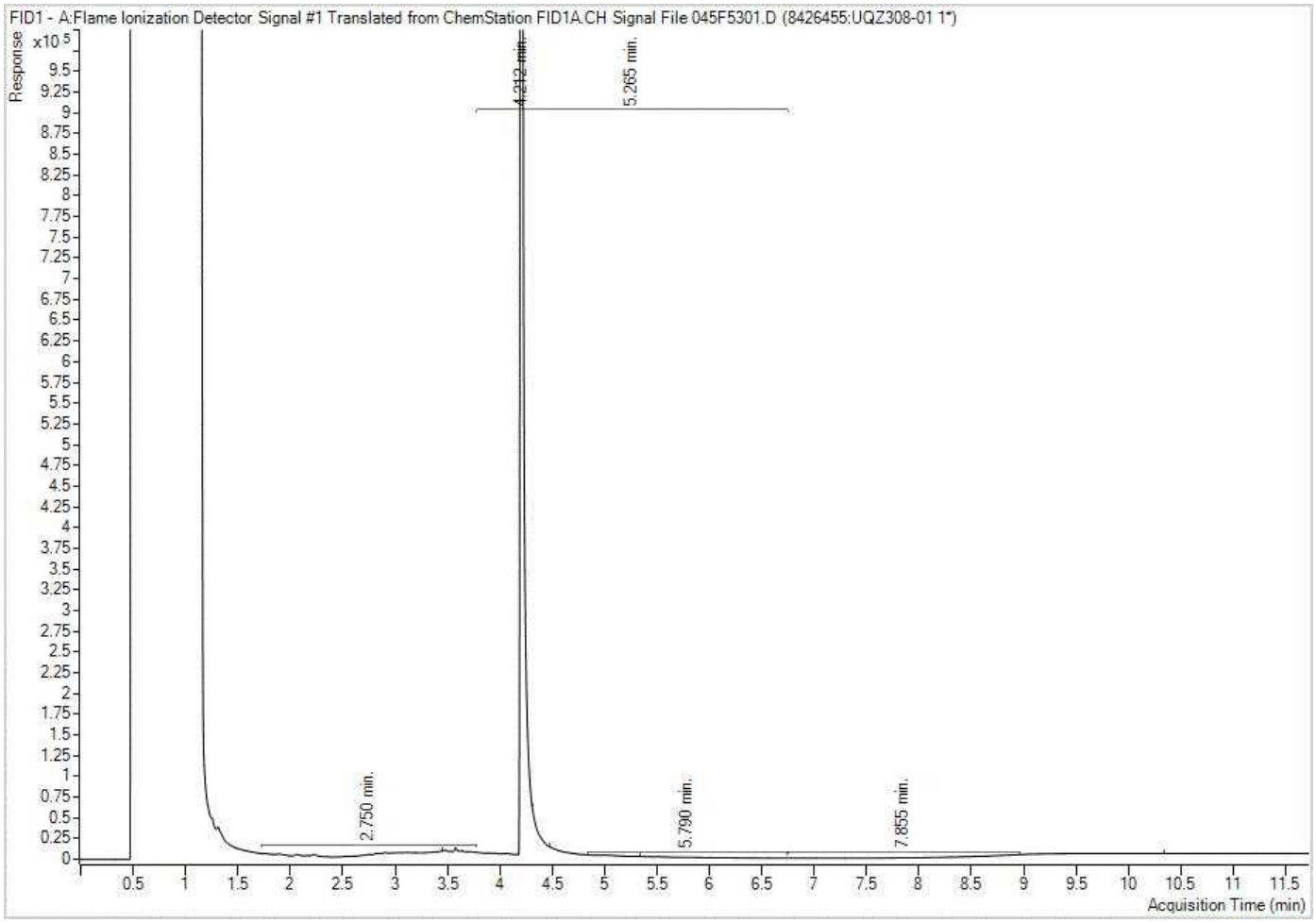
1263 5203

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Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05
Bureau Veritas Sample: UQZ308

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: SW101

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



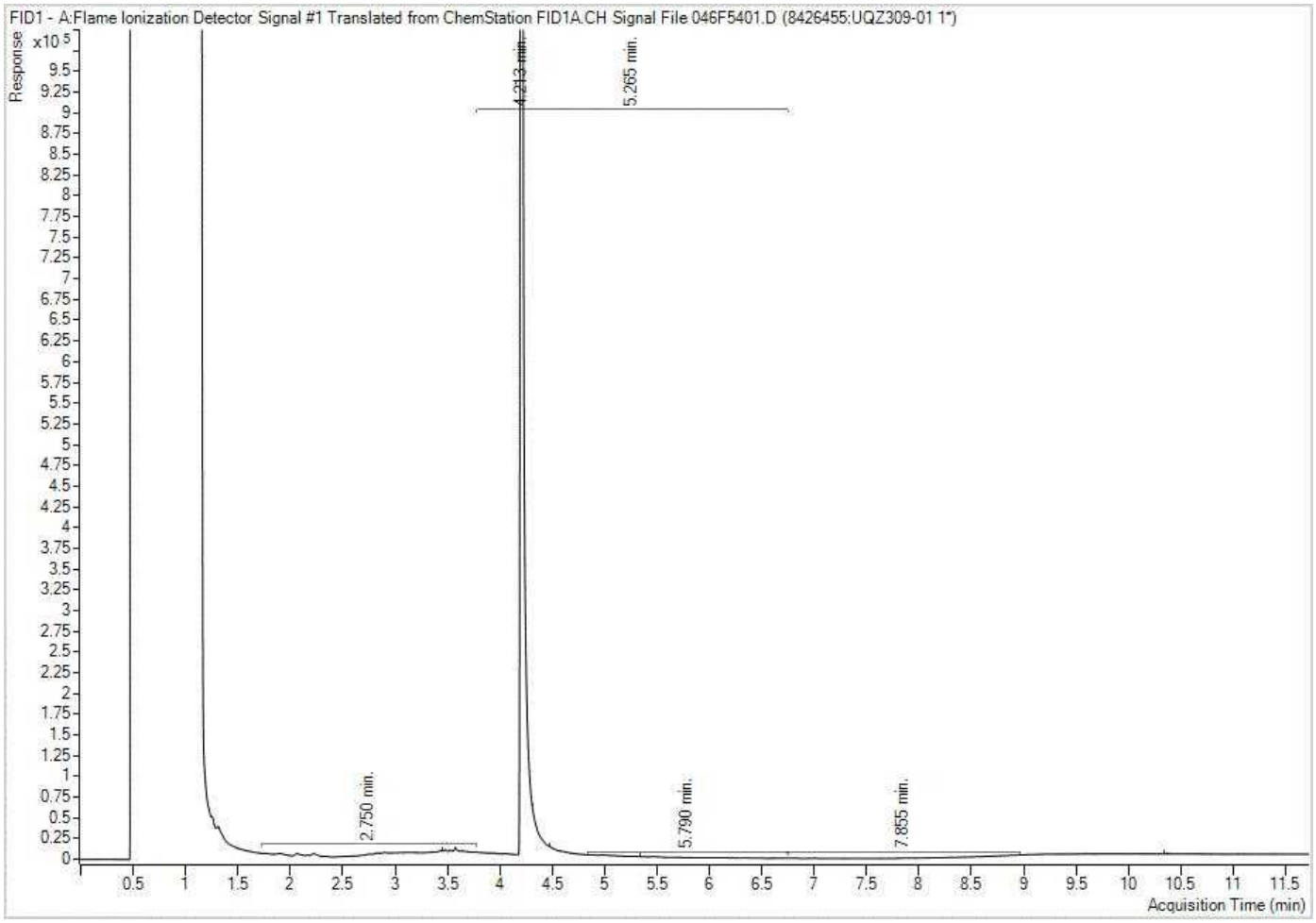
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05
Bureau Veritas Sample: UQZ309

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: SW102

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



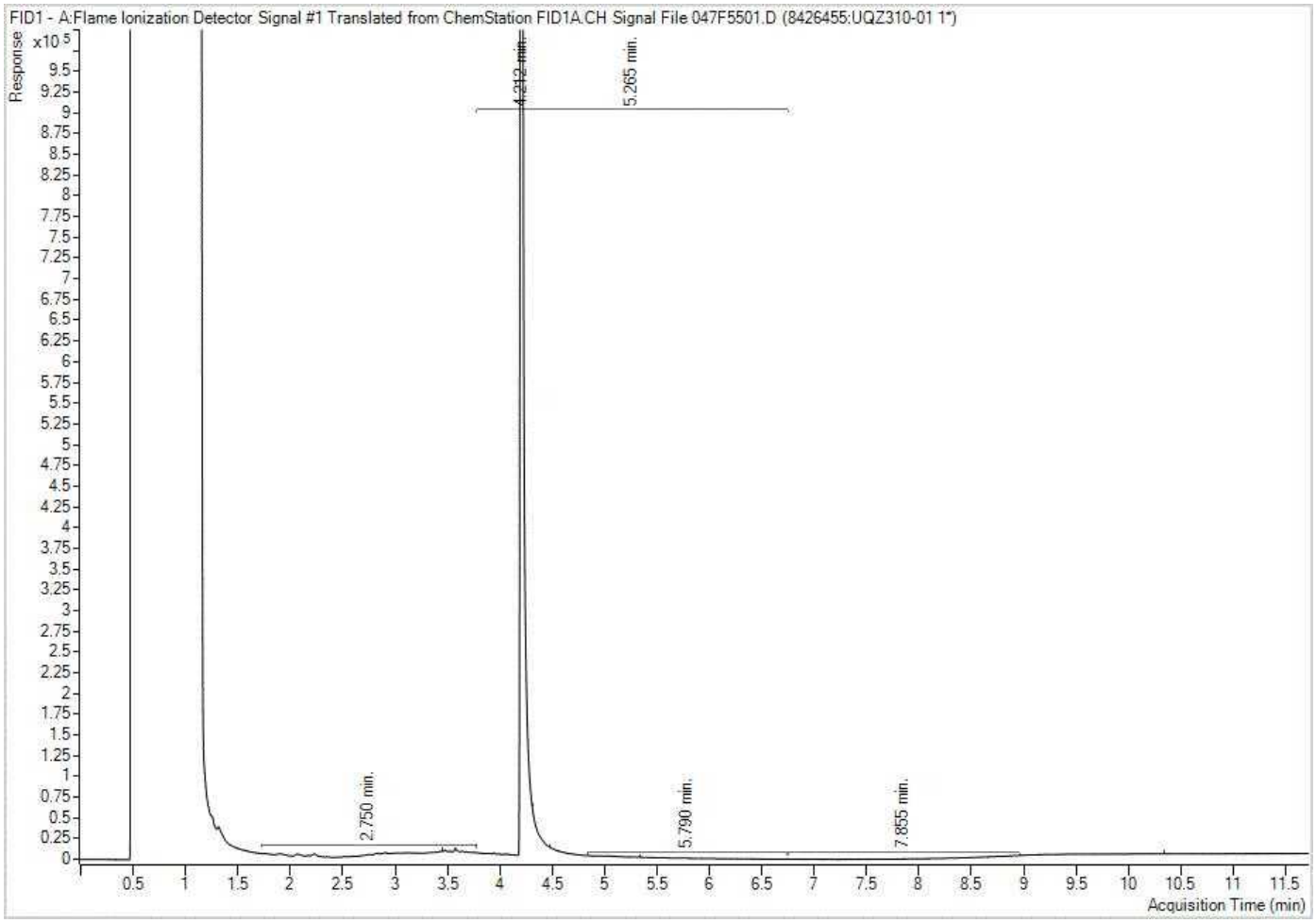
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05
Bureau Veritas Sample: UQZ310

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: SW103

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



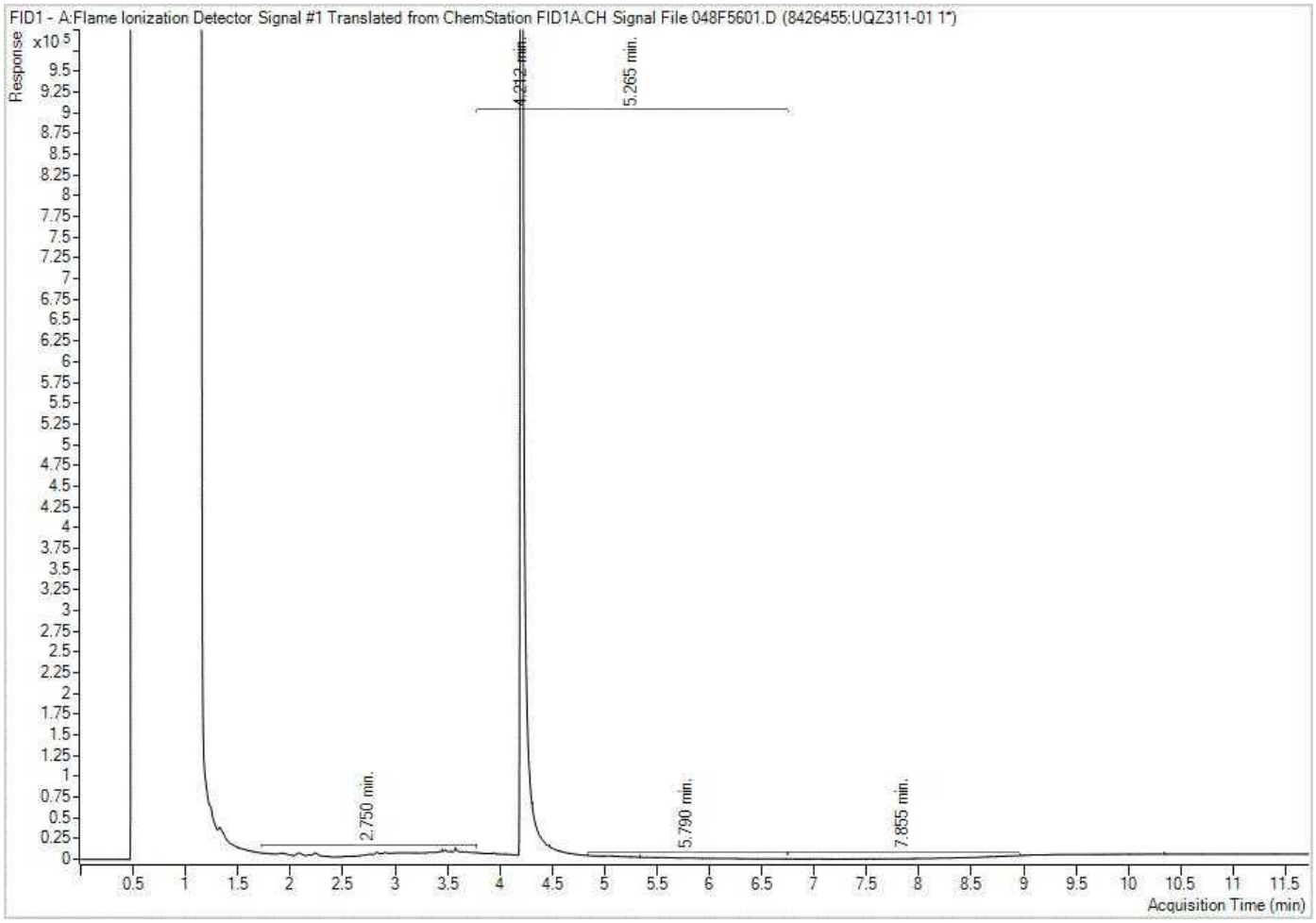
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

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Bureau Veritas Job #: C2AQ680
Report Date: 2023/01/05
Bureau Veritas Sample: UQZ311

Cambium Environmental Inc
Client Project #: 14455-002
Client ID: QA/QC#1

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



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Exceedance Summary Table – Reg153/04 T1-GW

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
SW101	UQZ308-04	Total Copper (Cu)	5	5.1	0.90	ug/L
SW101	UQZ308-04	Total Lead (Pb)	1.9	2.8	0.50	ug/L
SW101	UQZ308-04	Total Uranium (U)	8.9	10	0.10	ug/L
SW101	UQZ308-03	Dissolved Uranium (U)	8.9	9.1	0.10	ug/L
SW101	UQZ308-04	Total Vanadium (V)	3.9	6.0	0.50	ug/L
SW102	UQZ309-04	Total Uranium (U)	8.9	9.7	0.10	ug/L
SW102	UQZ309-03	Dissolved Uranium (U)	8.9	9.5	0.10	ug/L
SW103	UQZ310-04	Total Chromium (Cr)	11	54	5.0	ug/L
SW103	UQZ310-04	Total Uranium (U)	8.9	9.4	0.10	ug/L
SW103	UQZ310-03	Dissolved Uranium (U)	8.9	9.5	0.10	ug/L
QA/QC#1	UQZ311-04	Total Cobalt (Co)	3.8	6.3	0.50	ug/L
QA/QC#1	UQZ311-04	Total Copper (Cu)	5	11	0.90	ug/L
QA/QC#1	UQZ311-04	Total Lead (Pb)	1.9	6.2	0.50	ug/L
QA/QC#1	UQZ311-04	Total Uranium (U)	8.9	10	0.10	ug/L
QA/QC#1	UQZ311-03	Dissolved Uranium (U)	8.9	9.1	0.10	ug/L
QA/QC#1	UQZ311-04	Total Vanadium (V)	3.9	15	0.50	ug/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

Exceedance Summary Table – Prov. Water Quality Obj.

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
SW101	UQZ308-04	Total Boron (B)	200	1300	10	ug/L
SW101	UQZ308-03	Dissolved Boron (B)	200	1200	10	ug/L
SW101	UQZ308-04	Total Cobalt (Co)	0.9	2.5	0.50	ug/L
SW101	UQZ308-04	Total Copper (Cu)	5	5.1	0.90	ug/L
SW101	UQZ308-04	Total Iron (Fe)	300	4400	100	ug/L
SW101	UQZ308-04	Total Uranium (U)	5	10	0.10	ug/L
SW101	UQZ308-03	Dissolved Uranium (U)	5	9.1	0.10	ug/L
SW101	UQZ308-04	Total Zinc (Zn)	30	48	5.0	ug/L
SW102	UQZ309-04	Total Boron (B)	200	1300	10	ug/L
SW102	UQZ309-03	Dissolved Boron (B)	200	1300	10	ug/L
SW102	UQZ309-04	Total Cobalt (Co)	0.9	1.5	0.50	ug/L
SW102	UQZ309-04	Total Iron (Fe)	300	2700	100	ug/L
SW102	UQZ309-04	Total Uranium (U)	5	9.7	0.10	ug/L
SW102	UQZ309-03	Dissolved Uranium (U)	5	9.5	0.10	ug/L
SW103	UQZ310-04	Total Boron (B)	200	1300	10	ug/L
SW103	UQZ310-03	Dissolved Boron (B)	200	1300	10	ug/L
SW103	UQZ310-04	Total Iron (Fe)	300	1600	100	ug/L
SW103	UQZ310-04	Total Uranium (U)	5	9.4	0.10	ug/L
SW103	UQZ310-03	Dissolved Uranium (U)	5	9.5	0.10	ug/L
QA/QC#1	UQZ311-04	Total Boron (B)	200	1200	10	ug/L
QA/QC#1	UQZ311-03	Dissolved Boron (B)	200	1200	10	ug/L
QA/QC#1	UQZ311-04	Total Cobalt (Co)	0.9	6.3	0.50	ug/L
QA/QC#1	UQZ311-04	Total Copper (Cu)	5	11	0.90	ug/L
QA/QC#1	UQZ311-04	Total Iron (Fe)	300	11000	100	ug/L

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Exceedance Summary Table – Prov. Water Quality Obj.

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
QA/QC#1	UQZ311-04	Total Lead (Pb)	5	6.2	0.50	ug/L
QA/QC#1	UQZ311-04	Total Uranium (U)	5	10	0.10	ug/L
QA/QC#1	UQZ311-03	Dissolved Uranium (U)	5	9.1	0.10	ug/L
QA/QC#1	UQZ311-04	Total Vanadium (V)	6	15	0.50	ug/L
QA/QC#1	UQZ311-04	Total Zinc (Zn)	30	130	5.0	ug/L

Detection Limit Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
SW101	UQZ308-01	Anthracene	0.0008	<0.050	0.050	ug/L
SW101	UQZ308-01	Benzo(a)anthracene	0.0004	<0.050	0.050	ug/L
SW101	UQZ308-01	Benzo(g,h,i)perylene	0.00002	<0.050	0.050	ug/L
SW101	UQZ308-01	Benzo(k)fluoranthene	0.0002	<0.050	0.050	ug/L
SW101	UQZ308-01	Chrysene	0.0001	<0.050	0.050	ug/L
SW101	UQZ308-01	Dibenzo(a,h)anthracene	0.002	<0.050	0.050	ug/L
SW101	UQZ308-01	Fluoranthene	0.0008	<0.050	0.050	ug/L
SW101	UQZ308-01	Perylene	0.00007	<0.050	0.050	ug/L
SW102	UQZ309-01	Anthracene	0.0008	<0.050	0.050	ug/L
SW102	UQZ309-01	Benzo(a)anthracene	0.0004	<0.050	0.050	ug/L
SW102	UQZ309-01	Benzo(g,h,i)perylene	0.00002	<0.050	0.050	ug/L
SW102	UQZ309-01	Benzo(k)fluoranthene	0.0002	<0.050	0.050	ug/L
SW102	UQZ309-01	Chrysene	0.0001	<0.050	0.050	ug/L
SW102	UQZ309-01	Dibenzo(a,h)anthracene	0.002	<0.050	0.050	ug/L
SW102	UQZ309-01	Fluoranthene	0.0008	<0.050	0.050	ug/L
SW102	UQZ309-01	Perylene	0.00007	<0.050	0.050	ug/L
SW103	UQZ310-01	Anthracene	0.0008	<0.050	0.050	ug/L
SW103	UQZ310-01	Benzo(a)anthracene	0.0004	<0.050	0.050	ug/L
SW103	UQZ310-01	Benzo(g,h,i)perylene	0.00002	<0.050	0.050	ug/L
SW103	UQZ310-01	Benzo(k)fluoranthene	0.0002	<0.050	0.050	ug/L
SW103	UQZ310-01	Chrysene	0.0001	<0.050	0.050	ug/L
SW103	UQZ310-01	Dibenzo(a,h)anthracene	0.002	<0.050	0.050	ug/L
SW103	UQZ310-01	Fluoranthene	0.0008	<0.050	0.050	ug/L
SW103	UQZ310-01	Perylene	0.00007	<0.050	0.050	ug/L
QA/QC#1	UQZ311-01	Anthracene	0.0008	<0.050	0.050	ug/L
QA/QC#1	UQZ311-01	Benzo(a)anthracene	0.0004	<0.050	0.050	ug/L
QA/QC#1	UQZ311-01	Benzo(g,h,i)perylene	0.00002	<0.050	0.050	ug/L
QA/QC#1	UQZ311-01	Benzo(k)fluoranthene	0.0002	<0.050	0.050	ug/L
QA/QC#1	UQZ311-01	Chrysene	0.0001	<0.050	0.050	ug/L
QA/QC#1	UQZ311-01	Dibenzo(a,h)anthracene	0.002	<0.050	0.050	ug/L
QA/QC#1	UQZ311-01	Fluoranthene	0.0008	<0.050	0.050	ug/L
QA/QC#1	UQZ311-01	Perylene	0.00007	<0.050	0.050	ug/L

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Your Project #: 14455-004
Your C.O.C. #: 966668-01-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2024/03/01
Report #: R8049246
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3AS675
Received: 2023/12/01, 13:55

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	5	N/A	2023/12/06	CAM SOP-00301	EPA 8270D m
Chloride by Automated Colourimetry	5	N/A	2023/12/05	CAM SOP-00463	SM 24 4500-Cl E m
Chromium (VI) in Water	5	N/A	2023/12/05	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	5	N/A	2023/12/05	CAM SOP-00457	OMOE E3015 m
Petroleum Hydro. CCME F1 & BTEX in Water	5	N/A	2023/12/05	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	5	2023/12/05	2023/12/06	CAM SOP-00316	CCME PHC-CWS m
Hardness (calculated as CaCO3)	5	N/A	2023/12/06	CAM SOP 00102/00408/00447	SM 2340 B
Mercury	5	2023/12/06	2023/12/07	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	5	N/A	2023/12/05	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	1	2023/12/05	2023/12/05	CAM SOP-00318	EPA 8270E
PAH Compounds in Water by GC/MS (SIM)	4	2023/12/05	2023/12/06	CAM SOP-00318	EPA 8270E

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, EPA, APHA or the Quebec Ministry of Environment.

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Your Project #: 14455-004
Your C.O.C. #: 966668-01-01

Attention: Sharif Nawyaz

Cambium Environmental Inc
194 Sophia Street
PO Box 325
Peterborough, ON
CANADA K9H 1E5

Report Date: 2024/03/01
Report #: R8049246
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C3AS675

Received: 2023/12/01, 13:55

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

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

(1) 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

Please direct all questions regarding this Certificate of Analysis to:
Christine Gripton, Senior Project Manager
Email: Christine.Gripton@bureauveritas.com
Phone# (519)652-9444

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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.

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		XTU258	XTU259	XTU260	XTU261	XTU263		
Sampling Date		2023/11/30 15:45	2023/11/30 14:20	2023/11/30 13:30	2023/11/30 12:45	2023/11/30		
COC Number		966668-01-01	966668-01-01	966668-01-01	966668-01-01	966668-01-01		
	UNITS	**SW101**	**SW102**	**SW103**	**SW104**	**QAQC1**	**RDL**	**QC Batch**
Calculated Parameters								
Hardness (CaCO3)	mg/L	780	790	730	1000	730	1.0	9086964

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID			XTU258		XTU259	XTU260		XTU261		
Sampling Date			2023/11/30 15:45		2023/11/30 14:20	2023/11/30 13:30		2023/11/30 12:45		
COC Number			966668-01-01		966668-01-01	966668-01-01		966668-01-01		
	UNITS	Criteria	SW101	QC Batch	SW102	SW103	RDL	SW104	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L	5	<1	9090617	<1	<1	1	<1	1	9090617
Dissolved Chloride (Cl-)	mg/L	-	410	9091051	430	450	6.0	490	7.0	9091051
Metals										
Chromium (VI)	ug/L	1	<0.50	9090900	<0.50	<0.50	0.50	<0.50	0.50	9090900
Mercury (Hg)	ug/L	0.2	<0.10	9093734	<0.10	<0.10	0.10	<0.10	0.10	9093734
Dissolved Antimony (Sb)	ug/L	20	<0.50	9091724	<0.50	0.52	0.50	<0.50	0.50	9091730
Dissolved Arsenic (As)	ug/L	100	<1.0	9091724	2.6	1.7	1.0	<1.0	1.0	9091730
Dissolved Barium (Ba)	ug/L	-	77	9091724	120	93	2.0	85	2.0	9091730
Dissolved Beryllium (Be)	ug/L	11	<0.40	9091724	<0.40	<0.40	0.40	<0.40	0.40	9091730
Dissolved Boron (B)	ug/L	200	**990**	9091724	**860**	**790**	10	**1200**	10	9091730
Dissolved Cadmium (Cd)	ug/L	0.2	<0.090	9091724	0.14	<0.090	0.090	<0.090	0.090	9091730
Dissolved Chromium (Cr)	ug/L	-	<5.0	9091724	<5.0	<5.0	5.0	<5.0	5.0	9091730
Dissolved Cobalt (Co)	ug/L	0.9	<0.50	9091724	**2.2**	0.86	0.50	<0.50	0.50	9091730
Dissolved Copper (Cu)	ug/L	5	1.7	9091724	**10**	4.2	0.90	1.2	0.90	9091730
Dissolved Lead (Pb)	ug/L	5	<0.50	9091724	**7.4**	3.2	0.50	<0.50	0.50	9091730
Dissolved Molybdenum (Mo)	ug/L	40	7.4	9091724	3.6	5.5	0.50	11	0.50	9091730
Dissolved Nickel (Ni)	ug/L	25	1.3	9091724	4.3	2.1	1.0	1.3	1.0	9091730
Dissolved Selenium (Se)	ug/L	100	<2.0	9091724	<2.0	<2.0	2.0	<2.0	2.0	9091730
Dissolved Silver (Ag)	ug/L	0.1	<0.090	9091724	<0.090	<0.090	0.090	<0.090	0.090	9091730
Dissolved Sodium (Na)	ug/L	-	270000	9091724	230000	290000	100	290000	100	9091730
Dissolved Thallium (Tl)	ug/L	0.3	<0.050	9091724	0.064	<0.050	0.050	<0.050	0.050	9091730
Dissolved Uranium (U)	ug/L	5	**8.3**	9091724	**8.2**	**8.6**	0.10	**9.0**	0.10	9091730
Dissolved Vanadium (V)	ug/L	6	0.65	9091724	**6.3**	2.6	0.50	<0.50	0.50	9091730
Dissolved Zinc (Zn)	ug/L	30	12	9091724	**95**	**45**	5.0	7.2	5.0	9091730

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Provincial Water Quality Objectives
Ref. to MOEE Water Management document dated Feb.1999

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID			XTU263		
Sampling Date			2023/11/30		
COC Number			966668-01-01		
	UNITS	Criteria	QAQC1	RDL	QC Batch
Inorganics					
WAD Cyanide (Free)	ug/L	5	<1	1	9090617
Dissolved Chloride (Cl-)	mg/L	-	440	6.0	9091051
Metals					
Chromium (VI)	ug/L	1	<0.50	0.50	9090900
Mercury (Hg)	ug/L	0.2	<0.10	0.10	9093734
Dissolved Antimony (Sb)	ug/L	20	<0.50	0.50	9091730
Dissolved Arsenic (As)	ug/L	100	<1.0	1.0	9091730
Dissolved Barium (Ba)	ug/L	-	76	2.0	9091730
Dissolved Beryllium (Be)	ug/L	11	<0.40	0.40	9091730
Dissolved Boron (B)	ug/L	200	**820**	10	9091730
Dissolved Cadmium (Cd)	ug/L	0.2	<0.090	0.090	9091730
Dissolved Chromium (Cr)	ug/L	-	<5.0	5.0	9091730
Dissolved Cobalt (Co)	ug/L	0.9	<0.50	0.50	9091730
Dissolved Copper (Cu)	ug/L	5	2.2	0.90	9091730
Dissolved Lead (Pb)	ug/L	5	0.78	0.50	9091730
Dissolved Molybdenum (Mo)	ug/L	40	7.4	0.50	9091730
Dissolved Nickel (Ni)	ug/L	25	1.2	1.0	9091730
Dissolved Selenium (Se)	ug/L	100	<2.0	2.0	9091730
Dissolved Silver (Ag)	ug/L	0.1	<0.090	0.090	9091730
Dissolved Sodium (Na)	ug/L	-	290000	100	9091730
Dissolved Thallium (Tl)	ug/L	0.3	<0.050	0.050	9091730
Dissolved Uranium (U)	ug/L	5	**8.4**	0.10	9091730
Dissolved Vanadium (V)	ug/L	6	0.88	0.50	9091730
Dissolved Zinc (Zn)	ug/L	30	14	5.0	9091730

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Provincial Water Quality Objectives
Ref. to MOEE Water Management document dated Feb.1999

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

O.REG 153 PAHS (WATER)

Bureau Veritas ID			XTU258	XTU259	XTU260	XTU261	XTU263		
Sampling Date			2023/11/30 15:45	2023/11/30 14:20	2023/11/30 13:30	2023/11/30 12:45	2023/11/30		
COC Number			966668-01-01	966668-01-01	966668-01-01	966668-01-01	966668-01-01		
	UNITS	Criteria	SW101	SW102	SW103	SW104	QAQC1	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/L	-	<0.071	<0.071	<0.071	<0.071	<0.071	0.071	9087391
Polyaromatic Hydrocarbons									
Acenaphthene	ug/L	-	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9091564
Acenaphthylene	ug/L	-	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9091564
Anthracene	ug/L	0.0008	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	9091564
Benzo(a)anthracene	ug/L	0.0004	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	9091564
Benzo(a)pyrene	ug/L	-	<0.0090	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	9091564
Benzo(b/j)fluoranthene	ug/L	-	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9091564
Benzo(g,h,i)perylene	ug/L	0.00002	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	9091564
Benzo(k)fluoranthene	ug/L	0.0002	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	9091564
Chrysene	ug/L	0.0001	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	9091564
Dibenzo(a,h)anthracene	ug/L	0.002	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	9091564
Fluoranthene	ug/L	0.0008	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	**<0.050 (1)**	0.050	9091564
Fluorene	ug/L	0.2	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9091564
Indeno(1,2,3-cd)pyrene	ug/L	-	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9091564
1-Methylnaphthalene	ug/L	2	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9091564
2-Methylnaphthalene	ug/L	2	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9091564
Naphthalene	ug/L	7	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9091564
Phenanthrene	ug/L	0.03	<0.030	<0.030	<0.030	<0.030	<0.030	0.030	9091564
Pyrene	ug/L	-	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	9091564
Surrogate Recovery (%)									
D10-Anthracene	%	-	108	107	107	109	105		9091564
D14-Terphenyl (FS)	%	-	106	105	103	107	104		9091564
D8-Acenaphthylene	%	-	103	96	96	99	96		9091564

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Provincial Water Quality Objectives
Ref. to MOEE Water Management document dated Feb.1999
(1) RDL exceeds criteria

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

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID			XTU258			XTU258			XTU259		
Sampling Date			2023/11/30 15:45			2023/11/30 15:45			2023/11/30 14:20		
COC Number			966668-01-01			966668-01-01			966668-01-01		
	UNITS	Criteria	SW101	RDL	QC Batch	SW101 Lab-Dup	RDL	QC Batch	SW102	RDL	QC Batch
BTEX & F1 Hydrocarbons											
Benzene	ug/L	100	<0.20	0.20	9090421	<0.20	0.20	9090421	<0.20	0.20	9090421
Toluene	ug/L	0.8	<0.20	0.20	9090421	<0.20	0.20	9090421	<0.20	0.20	9090421
Ethylbenzene	ug/L	8	<0.20	0.20	9090421	<0.20	0.20	9090421	<0.20	0.20	9090421
o-Xylene	ug/L	40	<0.20	0.20	9090421	<0.20	0.20	9090421	<0.20	0.20	9090421
p+m-Xylene	ug/L	2	<0.40	0.40	9090421	<0.40	0.40	9090421	<0.40	0.40	9090421
Total Xylenes	ug/L	-	<0.40	0.40	9090421	<0.40	0.40	9090421	<0.40	0.40	9090421
F1 (C6-C10)	ug/L	-	<25	25	9090421	<25	25	9090421	<25	25	9090421
F1 (C6-C10) - BTEX	ug/L	-	<25	25	9090421	<25	25	9090421	<25	25	9090421
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/L	-	<100	100	9091566				<100	100	9091566
F3 (C16-C34 Hydrocarbons)	ug/L	-	<200	200	9091566				<200	200	9091566
F4 (C34-C50 Hydrocarbons)	ug/L	-	<200	200	9091566				<200	200	9091566
Reached Baseline at C50	ug/L	-	Yes		9091566				Yes		9091566
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	-	104		9090421	102		9090421	104		9090421
4-Bromofluorobenzene	%	-	96		9090421	95		9090421	96		9090421
D10-o-Xylene	%	-	88		9090421	88		9090421	91		9090421
D4-1,2-Dichloroethane	%	-	107		9090421	107		9090421	103		9090421
o-Terphenyl	%	-	102		9091566				97		9091566

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Provincial Water Quality Objectives
Ref. to MOEE Water Management document dated Feb.1999

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID			XTU260	XTU261	XTU263		
Sampling Date			2023/11/30 13:30	2023/11/30 12:45	2023/11/30		
COC Number			966668-01-01	966668-01-01	966668-01-01		
	UNITS	Criteria	SW103	SW104	QAQC1	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/L	100	<0.20	<0.20	<0.20	0.20	9090421
Toluene	ug/L	0.8	<0.20	<0.20	<0.20	0.20	9090421
Ethylbenzene	ug/L	8	<0.20	<0.20	<0.20	0.20	9090421
o-Xylene	ug/L	40	<0.20	<0.20	<0.20	0.20	9090421
p+m-Xylene	ug/L	2	<0.40	<0.40	<0.40	0.40	9090421
Total Xylenes	ug/L	-	<0.40	<0.40	<0.40	0.40	9090421
F1 (C6-C10)	ug/L	-	<25	<25	<25	25	9090421
F1 (C6-C10) - BTEX	ug/L	-	<25	<25	<25	25	9090421
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	-	<100	<100	<100	100	9091566
F3 (C16-C34 Hydrocarbons)	ug/L	-	<200	<200	<200	200	9091566
F4 (C34-C50 Hydrocarbons)	ug/L	-	<200	<200	<200	200	9091566
Reached Baseline at C50	ug/L	-	Yes	Yes	Yes		9091566
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	-	104	104	103		9090421
4-Bromofluorobenzene	%	-	96	96	96		9090421
D10-o-Xylene	%	-	93	93	92		9090421
D4-1,2-Dichloroethane	%	-	103	102	103		9090421
o-Terphenyl	%	-	103	89	95		9091566

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

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Provincial Water Quality Objectives
Ref. to MOEE Water Management document dated Feb.1999

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

TEST SUMMARY

Bureau Veritas ID: XTU258
Sample ID: SW101
Matrix: Water

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9087391	N/A	2023/12/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9091051	N/A	2023/12/05	Massarat Jan
Chromium (VI) in Water	IC	9090900	N/A	2023/12/05	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	9090617	N/A	2023/12/05	Prgya Panchal
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9090421	N/A	2023/12/05	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9091566	2023/12/05	2023/12/06	Dennis Ngondu
Hardness (calculated as CaCO3)		9086964	N/A	2023/12/06	Automated Statchk
Mercury	CV/AA	9093734	2023/12/06	2023/12/07	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	9091724	N/A	2023/12/05	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9091564	2023/12/05	2023/12/05	Mitesh Raj

Bureau Veritas ID: XTU258 Dup
Sample ID: SW101
Matrix: Water

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9090421	N/A	2023/12/05	Ravinder Gaidhu

Bureau Veritas ID: XTU259
Sample ID: SW102
Matrix: Water

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9087391	N/A	2023/12/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9091051	N/A	2023/12/05	Massarat Jan
Chromium (VI) in Water	IC	9090900	N/A	2023/12/05	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	9090617	N/A	2023/12/05	Prgya Panchal
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9090421	N/A	2023/12/05	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9091566	2023/12/05	2023/12/06	Dennis Ngondu
Hardness (calculated as CaCO3)		9086964	N/A	2023/12/06	Automated Statchk
Mercury	CV/AA	9093734	2023/12/06	2023/12/07	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	9091730	N/A	2023/12/05	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9091564	2023/12/05	2023/12/06	Mitesh Raj

Bureau Veritas ID: XTU260
Sample ID: SW103
Matrix: Water

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9087391	N/A	2023/12/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9091051	N/A	2023/12/05	Massarat Jan
Chromium (VI) in Water	IC	9090900	N/A	2023/12/05	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	9090617	N/A	2023/12/05	Prgya Panchal
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9090421	N/A	2023/12/05	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9091566	2023/12/05	2023/12/06	Dennis Ngondu

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

TEST SUMMARY

Bureau Veritas ID: XTU260
Sample ID: SW103
Matrix: Water

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hardness (calculated as CaCO3)		9086964	N/A	2023/12/06	Automated Statchk
Mercury	CV/AA	9093734	2023/12/06	2023/12/07	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	9091730	N/A	2023/12/05	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9091564	2023/12/05	2023/12/06	Mitesh Raj

Bureau Veritas ID: XTU261
Sample ID: SW104
Matrix: Water

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9087391	N/A	2023/12/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9091051	N/A	2023/12/05	Massarat Jan
Chromium (VI) in Water	IC	9090900	N/A	2023/12/05	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	9090617	N/A	2023/12/05	Prgya Panchal
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9090421	N/A	2023/12/05	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9091566	2023/12/05	2023/12/06	Dennis Ngondu
Hardness (calculated as CaCO3)		9086964	N/A	2023/12/06	Automated Statchk
Mercury	CV/AA	9093734	2023/12/06	2023/12/07	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	9091730	N/A	2023/12/05	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9091564	2023/12/05	2023/12/06	Mitesh Raj

Bureau Veritas ID: XTU263
Sample ID: QAQC1
Matrix: Water

Collected: 2023/11/30
Shipped:
Received: 2023/12/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9087391	N/A	2023/12/06	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9091051	N/A	2023/12/05	Massarat Jan
Chromium (VI) in Water	IC	9090900	N/A	2023/12/05	Theodora Luck
Free (WAD) Cyanide	SKAL/CN	9090617	N/A	2023/12/05	Prgya Panchal
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9090421	N/A	2023/12/05	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9091566	2023/12/05	2023/12/06	Dennis Ngondu
Hardness (calculated as CaCO3)		9086964	N/A	2023/12/06	Automated Statchk
Mercury	CV/AA	9093734	2023/12/06	2023/12/07	Japneet Gill
Dissolved Metals by ICPMS	ICP/MS	9091730	N/A	2023/12/05	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9091564	2023/12/05	2023/12/06	Mitesh Raj

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.0°C

Revised report (2024/03/01): Includes PWQO guidelines.

Results relate only to the items tested.

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

QUALITY ASSURANCE REPORT

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9090421	1,4-Difluorobenzene	2023/12/05	102	70 - 130	100	70 - 130	105	%		
9090421	4-Bromofluorobenzene	2023/12/05	97	70 - 130	97	70 - 130	96	%		
9090421	D10-o-Xylene	2023/12/05	93	70 - 130	94	70 - 130	97	%		
9090421	D4-1,2-Dichloroethane	2023/12/05	94	70 - 130	95	70 - 130	104	%		
9091564	D10-Anthracene	2023/12/05	104	50 - 130	103	50 - 130	110	%		
9091564	D14-Terphenyl (FS)	2023/12/05	94	50 - 130	106	50 - 130	109	%		
9091564	D8-Acenaphthylene	2023/12/05	101	50 - 130	101	50 - 130	102	%		
9091566	o-Terphenyl	2023/12/06	102	60 - 130	107	60 - 130	101	%		
9090421	Benzene	2023/12/05	78	50 - 140	82	50 - 140	<0.20	ug/L	NC	30
9090421	Ethylbenzene	2023/12/05	90	50 - 140	96	50 - 140	<0.20	ug/L	NC	30
9090421	F1 (C6-C10) - BTEX	2023/12/05					<25	ug/L	NC	30
9090421	F1 (C6-C10)	2023/12/05	88	60 - 140	96	60 - 140	<25	ug/L	NC	30
9090421	o-Xylene	2023/12/05	87	50 - 140	92	50 - 140	<0.20	ug/L	NC	30
9090421	p+m-Xylene	2023/12/05	84	50 - 140	89	50 - 140	<0.40	ug/L	NC	30
9090421	Toluene	2023/12/05	79	50 - 140	84	50 - 140	<0.20	ug/L	NC	30
9090421	Total Xylenes	2023/12/05					<0.40	ug/L	NC	30
9090617	WAD Cyanide (Free)	2023/12/05	92	80 - 120	104	80 - 120	<1	ug/L	NC	20
9090900	Chromium (VI)	2023/12/05	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
9091051	Dissolved Chloride (Cl-)	2023/12/05	NC	80 - 120	96	80 - 120	<1.0	mg/L	1.5	20
9091564	1-Methylnaphthalene	2023/12/05	117	50 - 130	113	50 - 130	<0.050	ug/L	NC	30
9091564	2-Methylnaphthalene	2023/12/05	111	50 - 130	107	50 - 130	<0.050	ug/L	NC	30
9091564	Acenaphthene	2023/12/05	116	50 - 130	112	50 - 130	<0.050	ug/L	NC	30
9091564	Acenaphthylene	2023/12/05	116	50 - 130	112	50 - 130	<0.050	ug/L	NC	30
9091564	Anthracene	2023/12/05	97	50 - 130	112	50 - 130	<0.050	ug/L	NC	30
9091564	Benzo(a)anthracene	2023/12/05	56	50 - 130	114	50 - 130	<0.050	ug/L	NC	30
9091564	Benzo(a)pyrene	2023/12/05	42 (1)	50 - 130	105	50 - 130	<0.0090	ug/L	NC	30
9091564	Benzo(b/j)fluoranthene	2023/12/05	44 (1)	50 - 130	107	50 - 130	<0.050	ug/L	NC	30
9091564	Benzo(g,h,i)perylene	2023/12/05	43 (1)	50 - 130	110	50 - 130	<0.050	ug/L	NC	30
9091564	Benzo(k)fluoranthene	2023/12/05	44 (1)	50 - 130	108	50 - 130	<0.050	ug/L	NC	30
9091564	Chrysene	2023/12/05	48 (1)	50 - 130	109	50 - 130	<0.050	ug/L	NC	30
9091564	Dibenzo(a,h)anthracene	2023/12/05	37 (1)	50 - 130	98	50 - 130	<0.050	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9091564	Fluoranthene	2023/12/05	100	50 - 130	115	50 - 130	<0.050	ug/L	NC	30
9091564	Fluorene	2023/12/05	111	50 - 130	109	50 - 130	<0.050	ug/L	NC	30
9091564	Indeno(1,2,3-cd)pyrene	2023/12/05	43 (1)	50 - 130	110	50 - 130	<0.050	ug/L	NC	30
9091564	Naphthalene	2023/12/05	111	50 - 130	108	50 - 130	<0.050	ug/L	3.1	30
9091564	Phenanthrene	2023/12/05	108	50 - 130	109	50 - 130	<0.030	ug/L	NC	30
9091564	Pyrene	2023/12/05	94	50 - 130	116	50 - 130	<0.050	ug/L	NC	30
9091566	F2 (C10-C16 Hydrocarbons)	2023/12/06	92	60 - 130	96	60 - 130	<100	ug/L	17	30
9091566	F3 (C16-C34 Hydrocarbons)	2023/12/06	90	60 - 130	97	60 - 130	<200	ug/L	1.1	30
9091566	F4 (C34-C50 Hydrocarbons)	2023/12/06	92	60 - 130	96	60 - 130	<200	ug/L	NC	30
9091724	Dissolved Antimony (Sb)	2023/12/05	109	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9091724	Dissolved Arsenic (As)	2023/12/05	102	80 - 120	98	80 - 120	<1.0	ug/L	8.2	20
9091724	Dissolved Barium (Ba)	2023/12/05	102	80 - 120	98	80 - 120	<2.0	ug/L	0.23	20
9091724	Dissolved Beryllium (Be)	2023/12/05	99	80 - 120	98	80 - 120	<0.40	ug/L	NC	20
9091724	Dissolved Boron (B)	2023/12/05	103	80 - 120	102	80 - 120	<10	ug/L	1.0	20
9091724	Dissolved Cadmium (Cd)	2023/12/05	99	80 - 120	97	80 - 120	<0.090	ug/L	NC	20
9091724	Dissolved Chromium (Cr)	2023/12/05	100	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
9091724	Dissolved Cobalt (Co)	2023/12/05	97	80 - 120	94	80 - 120	<0.50	ug/L	2.6	20
9091724	Dissolved Copper (Cu)	2023/12/05	100	80 - 120	97	80 - 120	<0.90	ug/L	NC	20
9091724	Dissolved Lead (Pb)	2023/12/05	96	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
9091724	Dissolved Molybdenum (Mo)	2023/12/05	109	80 - 120	101	80 - 120	<0.50	ug/L	5.9	20
9091724	Dissolved Nickel (Ni)	2023/12/05	95	80 - 120	94	80 - 120	<1.0	ug/L	13	20
9091724	Dissolved Selenium (Se)	2023/12/05	103	80 - 120	100	80 - 120	<2.0	ug/L	NC	20
9091724	Dissolved Silver (Ag)	2023/12/05	92	80 - 120	96	80 - 120	<0.090	ug/L	NC	20
9091724	Dissolved Sodium (Na)	2023/12/05	NC	80 - 120	97	80 - 120	<100	ug/L	0.69	20
9091724	Dissolved Thallium (Tl)	2023/12/05	97	80 - 120	95	80 - 120	<0.050	ug/L	NC	20
9091724	Dissolved Uranium (U)	2023/12/05	101	80 - 120	98	80 - 120	<0.10	ug/L	1.8	20
9091724	Dissolved Vanadium (V)	2023/12/05	103	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
9091724	Dissolved Zinc (Zn)	2023/12/05	93	80 - 120	93	80 - 120	<5.0	ug/L	1.3	20
9091730	Dissolved Antimony (Sb)	2023/12/05	111	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9091730	Dissolved Arsenic (As)	2023/12/05	106	80 - 120	102	80 - 120	<1.0	ug/L	NC	20
9091730	Dissolved Barium (Ba)	2023/12/05	107	80 - 120	103	80 - 120	<2.0	ug/L	1.3	20

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9091730	Dissolved Beryllium (Be)	2023/12/05	103	80 - 120	100	80 - 120	<0.40	ug/L	NC	20
9091730	Dissolved Boron (B)	2023/12/05	101	80 - 120	98	80 - 120	<10	ug/L	NC	20
9091730	Dissolved Cadmium (Cd)	2023/12/05	107	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
9091730	Dissolved Chromium (Cr)	2023/12/05	107	80 - 120	103	80 - 120	<5.0	ug/L	NC	20
9091730	Dissolved Cobalt (Co)	2023/12/05	105	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
9091730	Dissolved Copper (Cu)	2023/12/05	109	80 - 120	103	80 - 120	<0.90	ug/L	NC	20
9091730	Dissolved Lead (Pb)	2023/12/05	105	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
9091730	Dissolved Molybdenum (Mo)	2023/12/05	114	80 - 120	105	80 - 120	<0.50	ug/L	NC	20
9091730	Dissolved Nickel (Ni)	2023/12/05	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
9091730	Dissolved Selenium (Se)	2023/12/05	104	80 - 120	99	80 - 120	<2.0	ug/L	NC	20
9091730	Dissolved Silver (Ag)	2023/12/05	106	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
9091730	Dissolved Sodium (Na)	2023/12/05	109	80 - 120	106	80 - 120	<100	ug/L	1.6	20
9091730	Dissolved Thallium (Tl)	2023/12/05	106	80 - 120	103	80 - 120	<0.050	ug/L	NC	20
9091730	Dissolved Uranium (U)	2023/12/05	107	80 - 120	103	80 - 120	<0.10	ug/L	2.8	20
9091730	Dissolved Vanadium (V)	2023/12/05	108	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9091730	Dissolved Zinc (Zn)	2023/12/05	104	80 - 120	101	80 - 120	<5.0	ug/L	1.5	20
9093734	Mercury (Hg)	2023/12/07	104	75 - 125	110	80 - 120	<0.10	ug/L	NC	20

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

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

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

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

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

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

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

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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

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

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

VALIDATION SIGNATURE PAGE

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

Cristina Carriere, Senior 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 Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

01-Dec-23 13:55
Christine Gripton
C3AS675

Bottle Order #: 966668
Project Manager: Christine Gripton
C#966668-01-01

INVOICE TO:
Company Name: #17950 Cambium Environmental Inc
Attention: ACCOUNTS PAYABLE
Address: 194 Sophia Street PO Box 325, Peterborough ON K9H 1E5
Tel: (705) 742-7900 Fax: (705) 742-7907
Email: accounting@cambium-inc.com

REPORT TO:
Company Name: Cambium Inc.
Attention: Sharif Nawyaz and Derik Tam
Address:
Tel: derik.tam@cambium-inc.com Fax:
Email: sharif.nawyaz@cambium-inc.com

PROJECT INFORMATION:
Quotation #: C26318
P.O. #:
Project: 14455-004
Project Name:
Site #:
Sampled By: Kulaarendra. J

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: EDDS reqd.

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

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	O Reg 153 PHCs, BTEX/F1-F4	O Reg 153 PAHs	O.Reg 153 Metals & Inorganics Pkg (Wtr)	Hardness						# of Bottles	Comments
1		SW 101	2023/11/30	15:45	SW	✓	✓	✓	✓	✓						9	
2		SW 102	↓	14:20	↓	✓	✓	✓	✓	✓						9	
3		SW 103		13:30		✓	✓	✓	✓	✓						9	
4		SW 104		12:45		✓	✓	✓	✓	✓						9	
5		SW 105		12:20		✓	✓	✓	✓	✓						9	on hold.
6		QAQC1	↓		↓	✓	✓	✓	✓	✓						9	
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
J.W Kulaarendra. J	2023/12/01		Rupinder Kaur	2023/12/01	13:55	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: 7.5.9
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

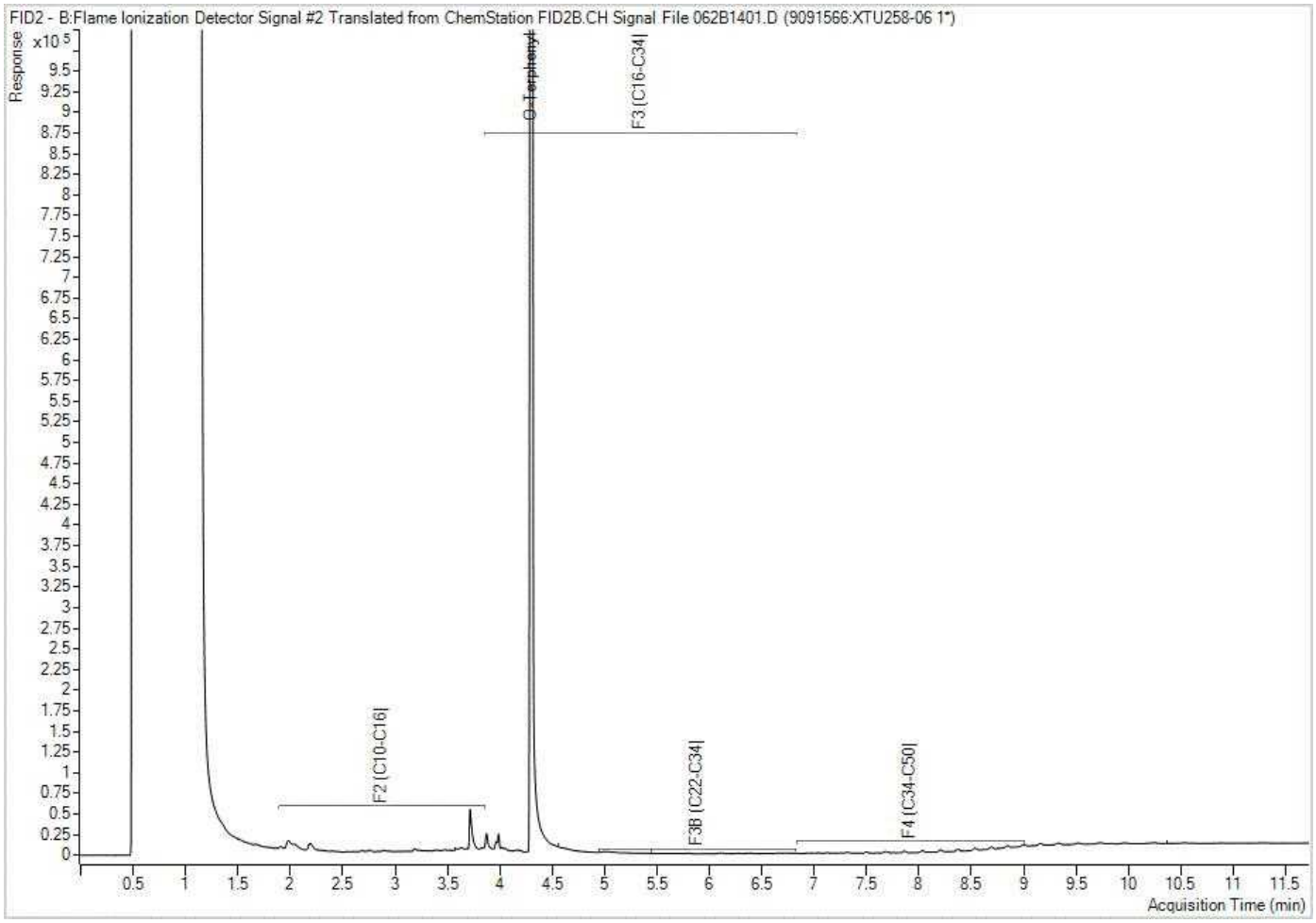
Bureau Veritas Canada (2019) Inc.

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Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01
Bureau Veritas Sample: XTU258

Cambium Environmental Inc
Client Project #: 14455-004
Client ID: SW101

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



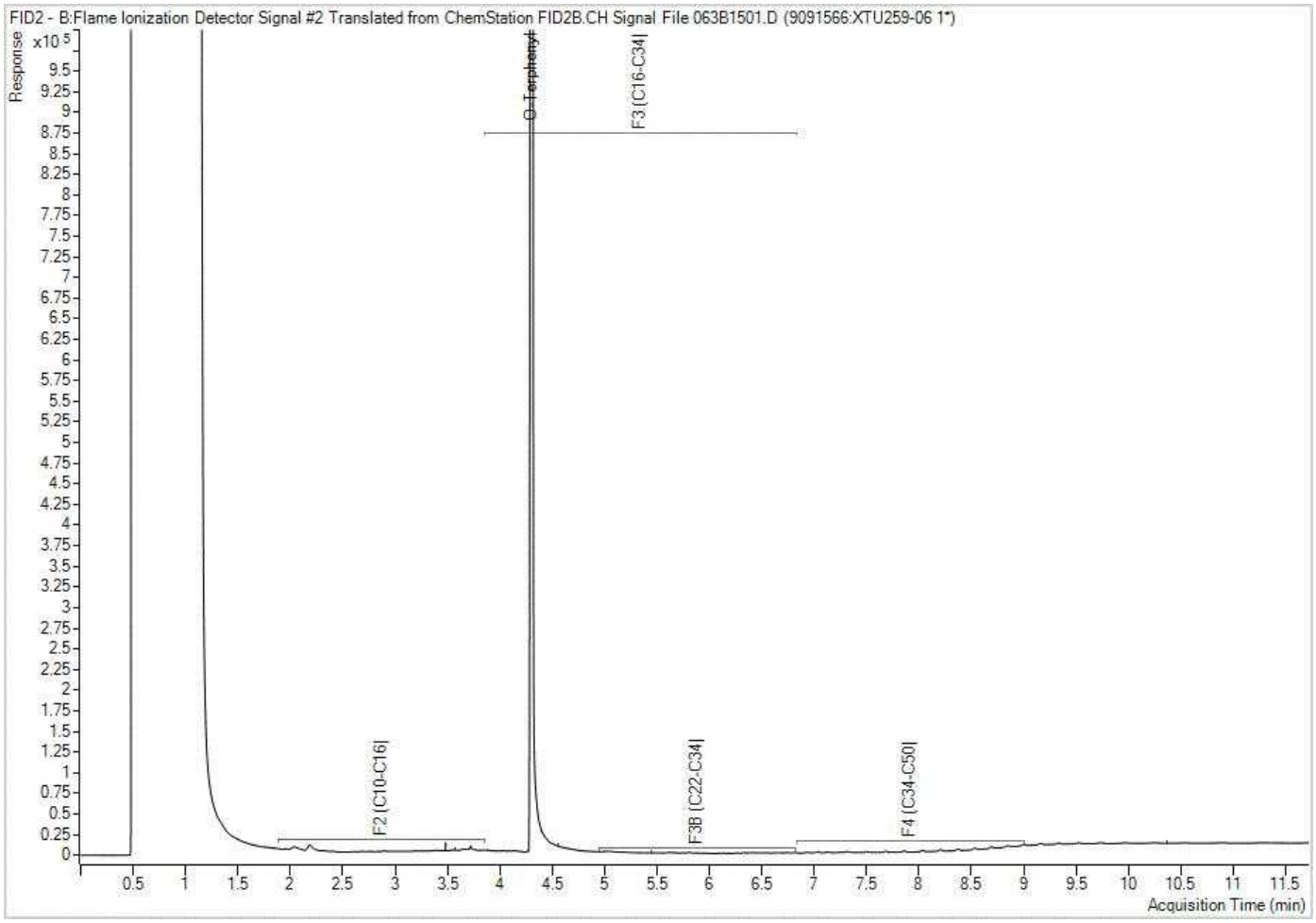
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01
Bureau Veritas Sample: XTU259

Cambium Environmental Inc
Client Project #: 14455-004
Client ID: SW102

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



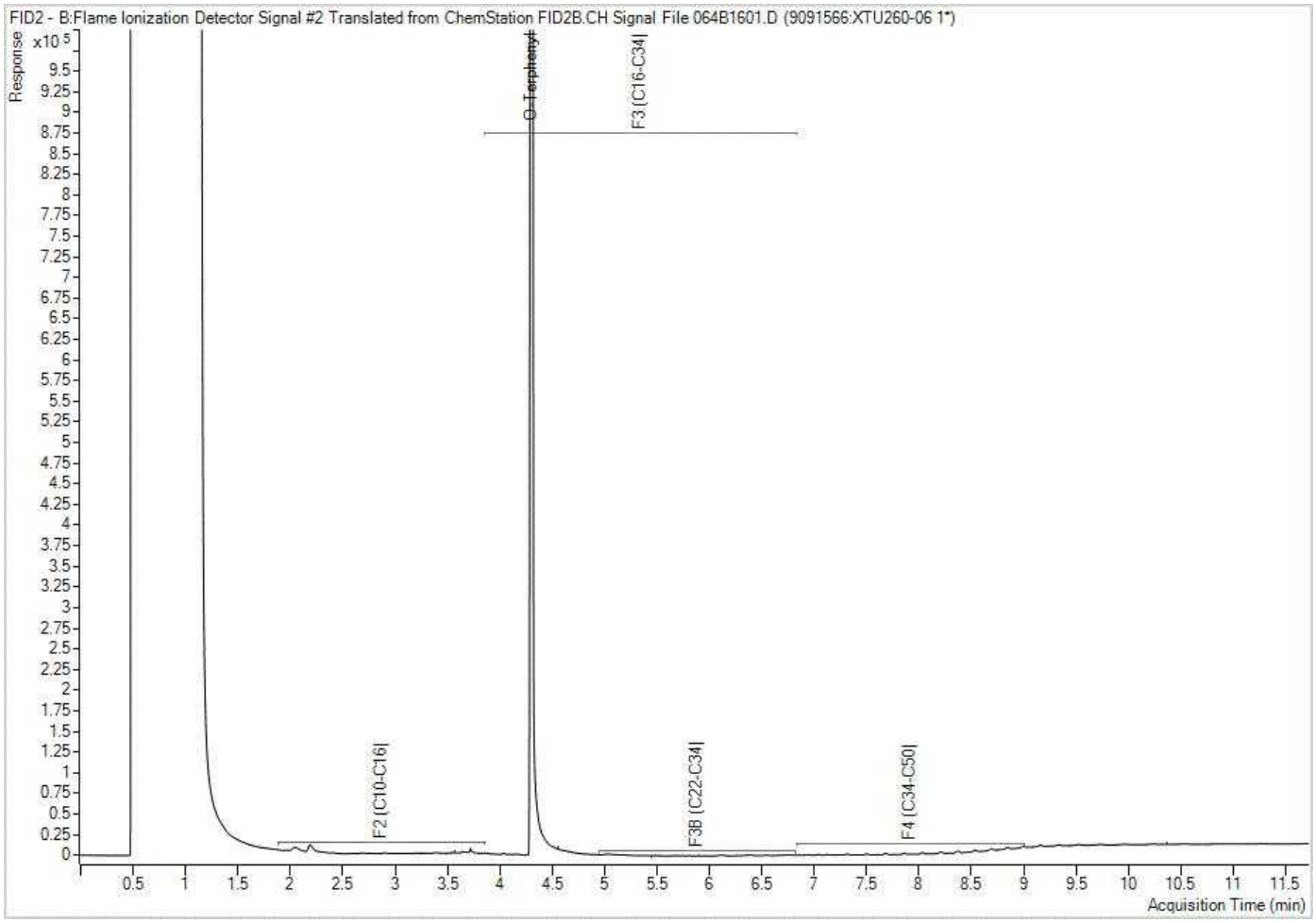
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01
Bureau Veritas Sample: XTU260

Cambium Environmental Inc
Client Project #: 14455-004
Client ID: SW103

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



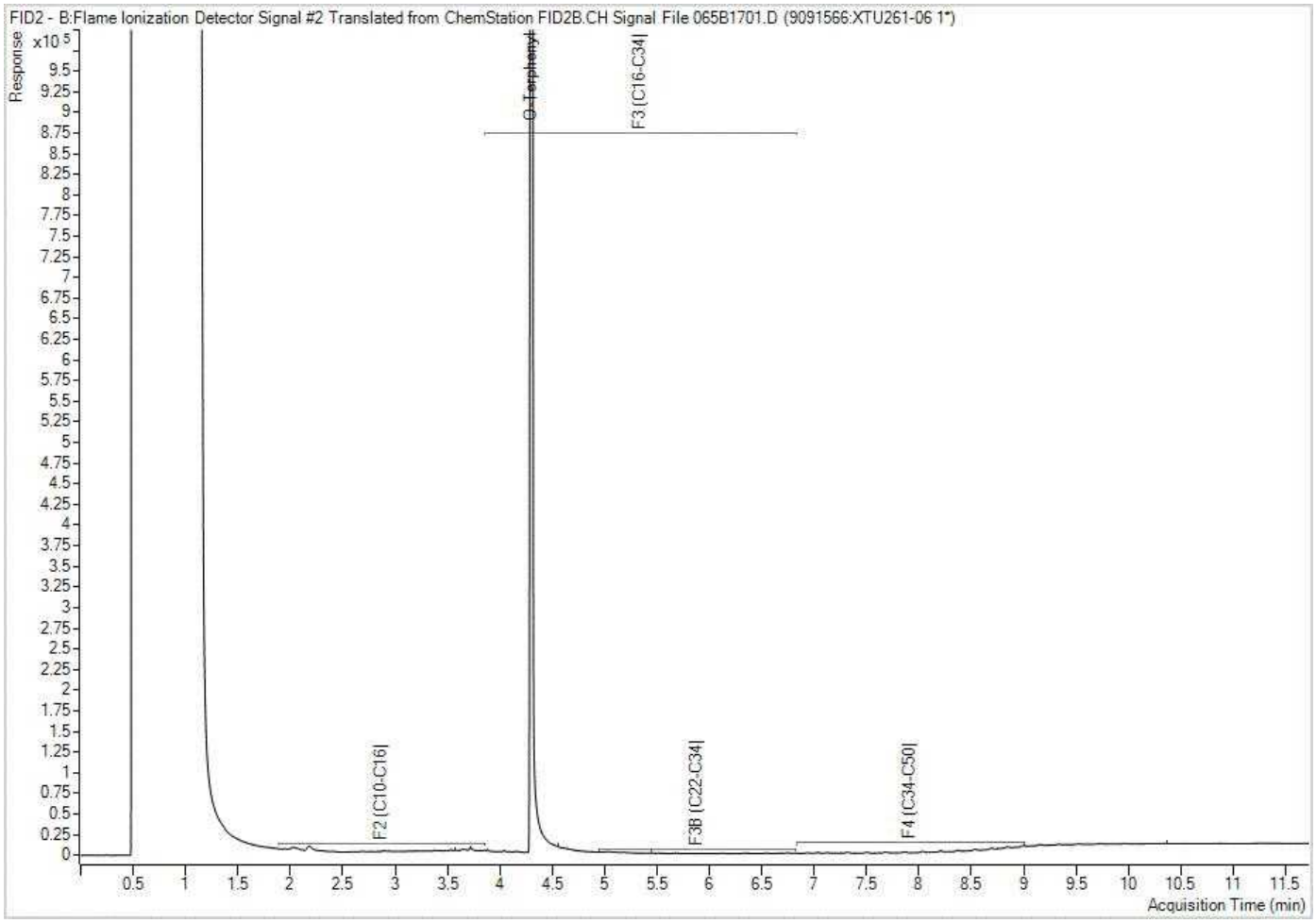
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01
Bureau Veritas Sample: XTU261

Cambium Environmental Inc
Client Project #: 14455-004
Client ID: SW104

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



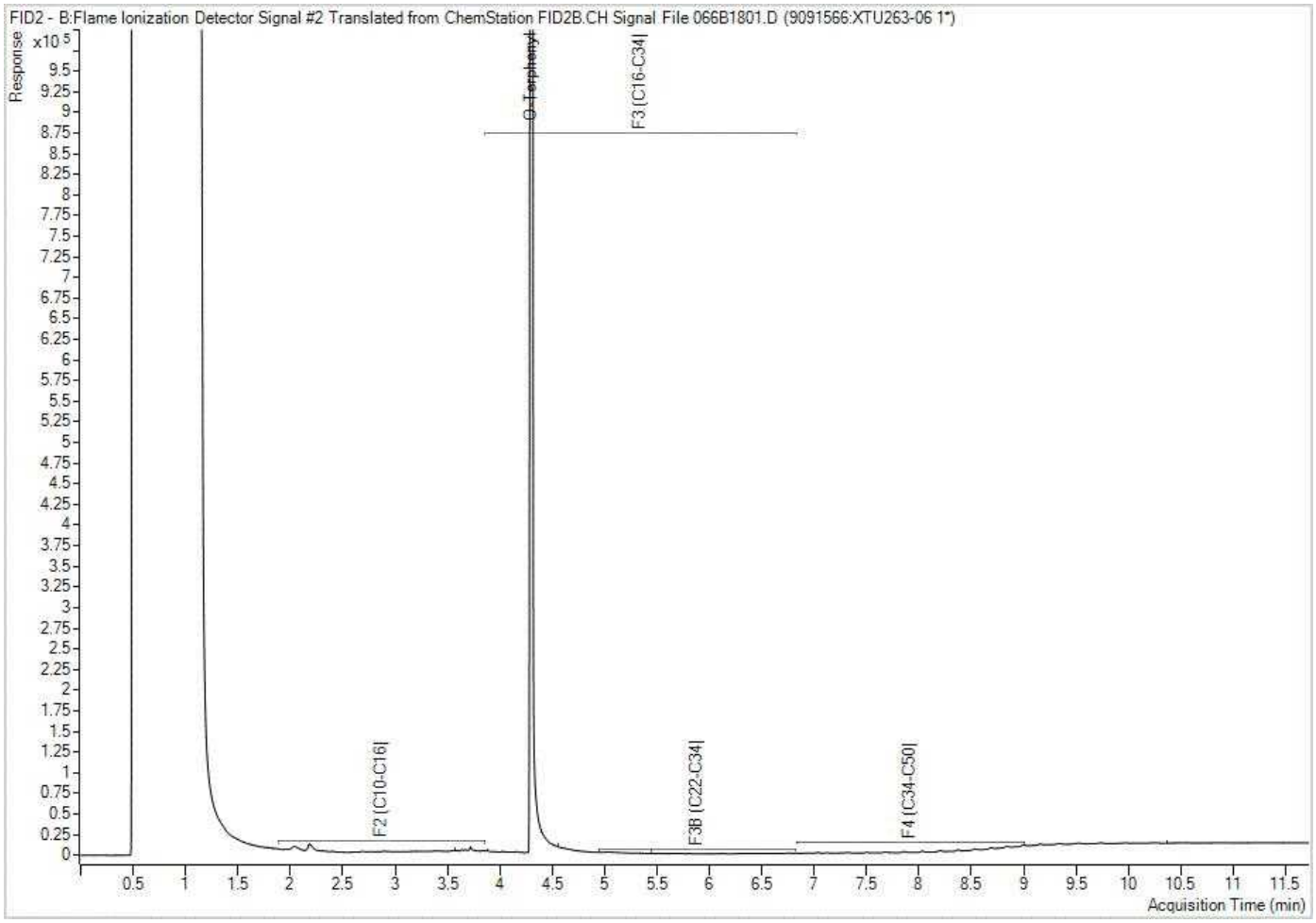
Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01
Bureau Veritas Sample: XTU263

Cambium Environmental Inc
Client Project #: 14455-004
Client ID: QAQC1

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.

DocuSign Envelope ID: 47D72FE1-3F5B-4A49-B74C-CBD01ACB7D1A

Exceedance Summary Table – Prov. Water Quality Obj.

Result Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
SW101	XTU258-04	Dissolved Boron (B)	200	990	10	ug/L
SW101	XTU258-04	Dissolved Uranium (U)	5	8.3	0.10	ug/L
SW102	XTU259-04	Dissolved Boron (B)	200	860	10	ug/L
SW102	XTU259-04	Dissolved Cobalt (Co)	0.9	2.2	0.50	ug/L
SW102	XTU259-04	Dissolved Copper (Cu)	5	10	0.90	ug/L
SW102	XTU259-04	Dissolved Lead (Pb)	5	7.4	0.50	ug/L
SW102	XTU259-04	Dissolved Uranium (U)	5	8.2	0.10	ug/L
SW102	XTU259-04	Dissolved Vanadium (V)	6	6.3	0.50	ug/L
SW102	XTU259-04	Dissolved Zinc (Zn)	30	95	5.0	ug/L
SW103	XTU260-04	Dissolved Boron (B)	200	790	10	ug/L
SW103	XTU260-04	Dissolved Uranium (U)	5	8.6	0.10	ug/L
SW103	XTU260-04	Dissolved Zinc (Zn)	30	45	5.0	ug/L
SW104	XTU261-04	Dissolved Boron (B)	200	1200	10	ug/L
SW104	XTU261-04	Dissolved Uranium (U)	5	9.0	0.10	ug/L
QAQC1	XTU263-04	Dissolved Boron (B)	200	820	10	ug/L
QAQC1	XTU263-04	Dissolved Uranium (U)	5	8.4	0.10	ug/L

Detection Limit Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
SW101	XTU258-06	Anthracene	0.0008	<0.050	0.050	ug/L
SW101	XTU258-06	Benzo(a)anthracene	0.0004	<0.050	0.050	ug/L
SW101	XTU258-06	Benzo(g,h,i)perylene	0.00002	<0.050	0.050	ug/L
SW101	XTU258-06	Benzo(k)fluoranthene	0.0002	<0.050	0.050	ug/L
SW101	XTU258-06	Chrysene	0.0001	<0.050	0.050	ug/L
SW101	XTU258-06	Dibenzo(a,h)anthracene	0.002	<0.050	0.050	ug/L
SW101	XTU258-06	Fluoranthene	0.0008	<0.050	0.050	ug/L
SW102	XTU259-06	Anthracene	0.0008	<0.050	0.050	ug/L
SW102	XTU259-06	Benzo(a)anthracene	0.0004	<0.050	0.050	ug/L
SW102	XTU259-06	Benzo(g,h,i)perylene	0.00002	<0.050	0.050	ug/L
SW102	XTU259-06	Benzo(k)fluoranthene	0.0002	<0.050	0.050	ug/L
SW102	XTU259-06	Chrysene	0.0001	<0.050	0.050	ug/L
SW102	XTU259-06	Dibenzo(a,h)anthracene	0.002	<0.050	0.050	ug/L
SW102	XTU259-06	Fluoranthene	0.0008	<0.050	0.050	ug/L
SW103	XTU260-06	Anthracene	0.0008	<0.050	0.050	ug/L
SW103	XTU260-06	Benzo(a)anthracene	0.0004	<0.050	0.050	ug/L
SW103	XTU260-06	Benzo(g,h,i)perylene	0.00002	<0.050	0.050	ug/L
SW103	XTU260-06	Benzo(k)fluoranthene	0.0002	<0.050	0.050	ug/L
SW103	XTU260-06	Chrysene	0.0001	<0.050	0.050	ug/L
SW103	XTU260-06	Dibenzo(a,h)anthracene	0.002	<0.050	0.050	ug/L
SW103	XTU260-06	Fluoranthene	0.0008	<0.050	0.050	ug/L
SW104	XTU261-06	Anthracene	0.0008	<0.050	0.050	ug/L
SW104	XTU261-06	Benzo(a)anthracene	0.0004	<0.050	0.050	ug/L
SW104	XTU261-06	Benzo(g,h,i)perylene	0.00002	<0.050	0.050	ug/L
SW104	XTU261-06	Benzo(k)fluoranthene	0.0002	<0.050	0.050	ug/L
SW104	XTU261-06	Chrysene	0.0001	<0.050	0.050	ug/L
SW104	XTU261-06	Dibenzo(a,h)anthracene	0.002	<0.050	0.050	ug/L
SW104	XTU261-06	Fluoranthene	0.0008	<0.050	0.050	ug/L
QAQC1	XTU263-06	Anthracene	0.0008	<0.050	0.050	ug/L
QAQC1	XTU263-06	Benzo(a)anthracene	0.0004	<0.050	0.050	ug/L
QAQC1	XTU263-06	Benzo(g,h,i)perylene	0.00002	<0.050	0.050	ug/L

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

Bureau Veritas Job #: C3AS675
Report Date: 2024/03/01

Cambium Environmental Inc
Client Project #: 14455-004
Sampler Initials: KJ

Exceedance Summary Table – Prov. Water Quality Obj.

Detection Limit Exceedances

Sample ID	Bureau Veritas ID	Parameter	Criteria	Result	DL	UNITS
QAQC1	XTU263-06	Benzo(k)fluoranthene	0.0002	<0.050	0.050	ug/L
QAQC1	XTU263-06	Chrysene	0.0001	<0.050	0.050	ug/L
QAQC1	XTU263-06	Dibenzo(a,h)anthracene	0.002	<0.050	0.050	ug/L
QAQC1	XTU263-06	Fluoranthene	0.0008	<0.050	0.050	ug/L

The exceedance summary table is for information purposes only and should not be considered a comprehensive listing or statement of conformance to applicable regulatory guidelines.

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