Phase II Environmental Site Assessment - 1683 Moore Drive and 1490 County Road 28, Fraserville, Ontario

September 30, 2021

Prepared for:
RIC (Moore Drive) Inc. and RIC (Highway 28) Inc.

Cambium Reference: 12579-002

CAMBIUM INC.

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Executive Summary

RIC (Moore Drive) Inc. and RIC (Highway 28) Inc. retained Cambium Inc. to complete a Phase II Environmental Site Assessment (ESA) at 1683 Moore Drive and 1490 County Road 28, Fraserville, Ontario. The 59.3 ha Site consists of two rectangular land parcels that are used for agricultural purposes with a residential dwelling on each.

Cambium previously completed a Phase I ESA (Cambium Inc., 2021) to identify potential and actual environmental concerns associated with the current and historical activities at the Site and surrounding properties, for due diligence purposes. The Phase I ESA identified the following actual and/or potential on-site sources of environmental contamination:

On-Site

- Dyed diesel above ground storage tank (AST) at 1409 County Road 28
- Historical AST at 1683 Moore Drive
- Potential use of pesticides on crops
- Burn area at 1683 Moore Drive

A Phase II ESA work program was developed to investigate contaminants of potential concern (COPCs), including benzene, toluene, ethylbenzene, and xylenes (BTEX), petroleum hydrocarbon fractions 1 to 4 (PHC F1-F4), OC pesticides and/or metals and inorganics (M&I) in soil and groundwater, identified in the Phase I ESA.

The Phase II ESA included nine boreholes, two of which were completed as groundwater monitoring wells. Ten soil samples and three groundwater samples were submitted for laboratory analysis of the COPCs.

The laboratory analysis results and discussion present through Section 4.0 indicated that all analysed contaminants of potential concern in the submitted soil and groundwater samples met the Table 1 SCS.

Cambium recommends the following work at the site:

- When no longer required, all monitoring wells should be abandoned as per the requirements of R.R.O. 1990, Regulation 903 - Wells.
- Soil cuttings and purge water are considered inert and can be disposed on the property, and in accordance with the regional sewer use by-law, and the drums recycled. Alternatively, Cambium can arrange for their removal from the site.

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1.0 Introduction

RIC (Moore Drive) Inc. and RIC (Highway 28) Inc. retained Cambium to complete a Phase II Environmental Site Assessment (ESA) at 1683 Moore Drive and 1490 County Road 28, Fraserville, Ontario (Site). The Phase II ESA was completed consistent with the *Canadian Standards Association (CSA) Standard Z769-00* (CSA, 2013), with reference to Ontario Regulation (O.Reg.) 153/04.

1.1 Previous Environmental Investigations

The following environmental reports were available for review by Cambium:

- Phase I Environmental Site Assessment - 1683 Moore Drive and 1490 County Road 28, Fraserville, Ontario (Cambium Inc., 2021)

The Phase I ESA identified the following actual and/or potential on-site sources of environmental contamination:

On-Site

- Dyed diesel AST at 1490 County Road 28
- Historical AST at 1683 Moore Drive
- Potential use of pesticides on crops
- Burn area at 1683 Moore Drive

The Phase I ESA identified evidence of environmental concerns associated with the Site; therefore, Cambium recommended a Phase II ESA to evaluate soil and groundwater quality at the Site.

1.2 Scope of Work

In accordance with our work plan and proposal to the Client, Cambium conducted the following activities as part of the Phase II ESA.

- Review of previous environmental reports to determine COPCs and aspects of environmental concern.
- Obtained public and private locates for identification of buried services and utilities via Ontario One Call and a private locate company.
- Developed a site-specific Health and Safety Plan (HASP) prior to commencement of the fieldwork.
- Arranged for a Ministry of the Environment, Conservation and Parks (Ministry) licensed driller to advance nine boreholes and install two monitoring wells on the Site.
- Arranged for a Canadian Association of Laboratory Accreditation Inc. (CALA) accredited laboratory to supply Cambium with appropriate sample containers for the proposed soil and groundwater testing program and to undertake analytical services in accordance with standard operating protocols (MOE, 2011a).

2.0 Site Description

The Site is at 1683 Moore Drive and 1490 County Road 28, Fraserville, Ontario (Figure 1). The Universal Transverse Mercator (UTM) coordinates for the centre of the Site are Zone 17T, 707,899m east, 4,898,990m north.

The roughly 59.3 ha Site is currently developed for residential and agricultural use, and is proposed to be redeveloped for residential use. The Site is currently developed with residential dwellings located at 1683 Moore Drive and 1409 County Road 28, originally constructed prior to 1951.

The Site slopes to the east, west, and south where a provincially significant wetland (PSW) is present on-site. The central-north portion of the Site is at a higher elevation which runs in a north to south direction. The Site is bordered by Moore Drive to the north and County Road 28 to the east. Kawartha Downs and Speedway is located on the southeast property boundary. Agricultural properties are present to the south and west.

Based on the location of the nearest water bodies and regional topographic relief, the inferred groundwater flow direction is easterly.

2.1 Applicable Site Condition Standards

The following site characteristics were reviewed to determine the applicable SCS in the *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* (MOE, 2011b).

- The Site is proposed for redevelopment as a residential use property in a rural area.
- The Site and surrounding properties rely on groundwater obtained via private wells for drinking water.
- The Site is adjacent to an area of natural significance, a PSW. As such, the Site is environmentally sensitive as per Section 41 of O.Reg. 153/04.

- The average overburden thickness was greater than 2 m based on observations made during the subsurface investigation; as such, Section 43.1(a) of O.Reg. 153/04 does not apply.
- The Site is within 30 m of a water body as defined in O.Reg. 153/04; as such, Section 43.1(b) of O.Reg. 153/04 applies.
- Grain size analysis completed on a representative soil sample indicated that the soil texture at the Site is coarse.

Based on the review of site characteristics, the Table 1 Full Depth Background Site Condition Standards, residential/parkland/institutional (RPI) property use, and coarse-textured soils are applicable. As most of the sampling locations are greater than 30 m from water bodies and the PSW, Table 2 SCS can be applied to those locations.

3.0 Methodology

The following sections provide a detailed description of the investigations completed and methodologies used to conduct the Phase II ESA. The aspects of environmental concern for the Site were identified based on review of the historical and current operations at the Site and surrounding properties as described in Section 1.0.

The COPCs related to these environmental concerns are BTEX, PHC F1-F4, OC pesticides, and metals and inorganics.

3.1 Soil Sampling

Prior to commencing the drilling program, Cambium arranged for underground services to be located and marked for public and private utilities. On-Site Locates attended the Site on July 22 and 23, 2021 to provide clearance for buried services at the proposed drilling locations. The drilling locations were clear of utilities.

On July 22, 2021, Strata Drilling Group advanced one borehole (BH108) to a maximum depth of 4.57 m below ground surface (mbgs) using a track-mounted Geoprobe 7822DT drilling rig equipped with 10 cm (4 inch) outside diameter dual-tube sampling equipment.

On July 23, 2021, Cambium advanced two boreholes (BH105 and BH107) to a maximum depth of 1.5 mbgs using a hand auger.

From July 26 - 28, 2021, Canadian Environmental Drilling advanced six boreholes (BH106, BH201, and BH204 to BH207) to a maximum depth of 8.2 mbgs using a track-mounted CME 55 drilling rig equipped with 15 cm (6 in) outside diameter hollow-stem augers and split spoon sampling equipment.

Boreholes were advanced at the following locations (Figure 2). Borehole logs are provided in Appendix A.

- Borehole BH105, adjacent the AST at 1683 Moore Drive
- Borehole BH106, northwest portion of the Site, along the eastern boundary of the PSW
- Borehole BH107, north portion of the Site, in an agricultural field

- Borehole BH108, adjacent the AST at 1409 County Road 28
- Borehole BH201, southwest portion of the Site, in an agricultural field
- Borehole BH204, east of the residential building at 1683 Moore Drive, near the burn pile
- Borehole BH205, north portion of the Site, in an agricultural field
- Borehole BH206, northeast portion of the Site, in an agricultural field
- Borehole BH207, southeast portion of the Site, in an agricultural field north of the barn at 1409 County Road 28

Samples were collected consistent with accepted industry practices and regulatory guidance. During the soil investigation program, soil samples were collected in 0.15, 0.61, or 1.5 m sections.

On September 21, 2021, Cambium returned to Site to re-sample BH205 after identifying a uranium exceedance in soil results between 0.75 to 1.20 mbgs. A borehole was advanced at BH205 via hand auger and a sample was collected between 0.75 to 1.20 mbgs.

Each sample was handled solely by the field technician using dedicated nitrile gloves to reduce the potential for cross-contamination. Gloves were replaced after collection of each sample. Samples to be submitted for analysis of VOCs and/or PHC F1 were collected using a pre-calibrated syringe sampler and methanol preserved vials.

Olfactory and visual observations of the soil samples were documented immediately upon extraction for soil characteristics and potential indicators of environmental contamination. The samples, which were placed in plastic sample bags and sealed, were used to determine if volatile and/or organic contaminants were present in the sample headspace. An RKI Eagle 2 portable gas detector was used to screen the soil samples for concentrations of combustible soil vapour (CSV) and organic vapour (OV). The RKI was calibrated to hexane and isobutylene standards. After agitating the sample, the peak concentration was recorded by inserting the RKI probe into the sample bag. Refer to the borehole logs in Appendix A for the measured vapour concentrations.

Soil samples were selected for laboratory analysis based on the soil screening results, visual and olfactory observation, and location of the sample with respect to an environmental concern. Nine soil samples were submitted to the laboratory for analysis. The soil analysis results are discussed in Section 4.3.

3.2 Monitoring Well Installation

Boreholes BH108 and BH204 were instrumented with groundwater monitoring wells in accordance with Ontario Regulation 903 - Wells. The monitoring wells were constructed using 51 mm flush-threaded environmental quality PVC well pipe. Each well was constructed with a riser pipe and 3 m section of screen installed to intersect the groundwater table. Silica sand filter-pack was placed in the annular space to approximately 0.3 m above the top of the screen. Bentonite was placed in the remaining annular space to about 6 cm below ground surface to seal the well. The bentonite was hydrated using store bought distilled water. A steel monument style protective cover was cemented in place at the ground surface to protect the well from damage. Well construction details are shown on the borehole logs in Appendix A.

3.3 Groundwater Sampling

Following installation, the monitoring wells were purged of a minimum of three well volumes, 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.

On July 26, 2021, the depth to groundwater was measured in each monitoring well prior to purging or sampling. An interface probe, which can accurately measure the depth to groundwater and the thickness of dense and light non-aqueous phase liquids (DNAPL and LNAPL, respectively) that may be present in the monitoring wells, was used to measure fluid levels. The probe was cleaned between wells with a mixture of Alconox^{TM} soap and water and rinsed with distilled water to reduce the potential for cross-contamination between the monitoring wells.

Each well was purged of a minimum of three well volumes to remove stagnant water from the well prior to sampling. Groundwater samples were collected using a peristaltic pump, with dedicated tubing installed in each of the monitoring wells. The peristatic pump reduces the amount of sediment entrained in the collected groundwater samples, as agitation of the water column is reduced by lowering the pumping rate and limiting the movement of the tubing in the water column.

On September 21, 2021, Cambium returned to Site to re-sample BH204 after identifying a toluene exceedance in groundwater results. BH204 was purged of a minimum of three well volumes to remove stagnant water from the well prior to sampling. A groundwater sample was collected using a peristaltic pump, with dedicated tubing installed in the monitoring well.

Field staff wore nitrile sample gloves while collecting the groundwater samples. Gloves were replaced between each sample location. The groundwater analysis results are discussed in Section 4.4.

3.4 Laboratory Testing and Analysis

Soil and groundwater samples were maintained at a temperature less than 10°C. Select samples were transported to SGS Canada, a CALA accredited analytical laboratory in Lakefield, Ontario, for analysis of BTEX, PHC F1-F4, OC pesticides, and metals and inorganics. The analysis results are discussed in Section 4.0. Copies of the original laboratory Certificates of Analysis as received from SGS Canada are included in Appendix B.

4.0 Results

4.1 Stratigraphy

Subsurface conditions at the Site generally consisted of topsoil underlain by silty sand with traces of gravel. Soil that appeared disturbed was considered as ‘possible fill’. There was no olfactory evidence of hydrocarbon contamination detected in the soil samples recovered from the boreholes.

Bedrock was not encountered to the maximum depth of the investigation.

4.2 Water levels and Flow Direction

Depth to groundwater ranged from 1.72 to 6.21 mbgs on July 26, 2021. Based on topography and nearby water bodies, the groundwater flow direction is inferred to be to the west. Local groundwater flow direction may be affected by sub-surface utility conduits located on-site and beneath nearby streets and neighbouring properties. Water level data and groundwater flow direction is shown on Figure 2.

4.3 Soil Quality

The submitted soil samples met the Table 1 SCS for the analyzed parameters with the exception of uranium in borehole BH205 from 0.75 m to 1.2 m. Uranium in borehole BH205 marginally exceeded the Table 1 SCS standard of 2.5 µg/g with a reported concentration of 2.6 µg/g, but meets the Table 2 SCS of 20 µg/g.

As the uranium exceedance was minor, BH205 was re-sampled on September 21, 2021, to determine if the exceedance would be replicated. The soil collected during the September 21, 2021 re-sampling event met the Table 1 SCS for the analyzed parameters. Overall, the Table 1 SCS for uranium is met.

The soil analysis results are summarized in Table 1.

4.4 Groundwater Quality

No free phase product, hydrocarbon sheen, or unusual odours or discoloration was observed in the purge water or recovered groundwater samples.

The submitted groundwater samples met the Table 1 SCS with the exception of toluene in monitoring well BH204. Toluene in groundwater from monitoring well BH204 marginally exceeded the Table 1 SCS standard of 0.8 µg/L with a reported concentration of 1.2 µg/L. Due to limited sample volumes PHC F1 could not be reported for groundwater from monitoring well BH204.

As the toluene exceedance was minor, the well was re-sampled on September 21, 2021, to determine if the exceedance would be replicated. The ground water collected during the September 21, 2021 re-sampling event met the Table 1 SCS for the analyzed parameters. Overall, the Table 1 SCS for toluene is met.

The groundwater analysis results are summarized in Table 2.

4.5 Quality Assurance / Quality Control

SGS reported that the laboratory analytical data is within statistical control and has met quality control and method performance criteria as provided in the appended Certificates of Analysis.

Based on the laboratory and field QA/QC data, the soil and groundwater analysis results can be interpreted with confidence.

5.0 Discussion and Conclusions

Conclusions regarding the current environmental conditions at the Site are based solely on the results of the Phase II ESA. The Phase II ESA included nine boreholes, two of which were completed as groundwater monitoring wells.

Ten soil samples and three groundwater samples were submitted for laboratory analysis of select COPCs.

The laboratory analysis results and discussion present through Section 4.0 indicated that all analysed contaminants of potential concern in the submitted soil and groundwater samples met the Table 1 SCS.

Cambium recommends the following work at the site:

- When no longer required, all monitoring wells should be abandoned as per the requirements of R.R.O. 1990, Regulation 903 - Wells.
- Soil cuttings and purge water are considered inert and can be disposed on the property, and in accordance with the regional sewer use by-law, and the drums recycled. Alternatively, Cambium can arrange for their removal from the site.

6.0 Qualifications of the Assessor

This Phase II ESA was completed under the supervision of Mr. Brad Sawdon, P.Geo. Credentials are presented in Appendix C. Information presented in this report is true and accurate to the best of the assessors' knowledge.

Respectfully submitted,

Cambium Inc.

Brad Sawdon, P.Geo.	Steven Elford, Hons. BA.
Senior Project Manager	Senior Technologist

BATS/sjbe

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7.0 References

Cambium Inc. (2021). *Phase I Environmental Site Assessment - 1683 Moore Drive and 1490 County Road 28, Fraserville, Ontario.*

CSA. (2013). *CSA Standard Z769-00 Phase II Environmental Site Assessment (R2013).* Canadian Standards Association.

MOE. (2011a). *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.* Ministry of the Environment. July 1, 2011.

MOE. (2011b). *Soil, Groundwater, and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act.* Ministry of the Environment. April 15, 2011.

8.0 Qualifications and Limitations

Limited Warranty

In performing work on behalf of a client, Cambium relies on its client to provide instructions on the scope of its retainer and, on that basis, Cambium determines the precise nature of the work to be performed. Cambium undertakes all work in accordance with applicable accepted industry practices and standards. Unless required under local laws, other than as expressly stated herein, no other warranties or conditions, either expressed or implied, are made regarding the services, work or reports provided.

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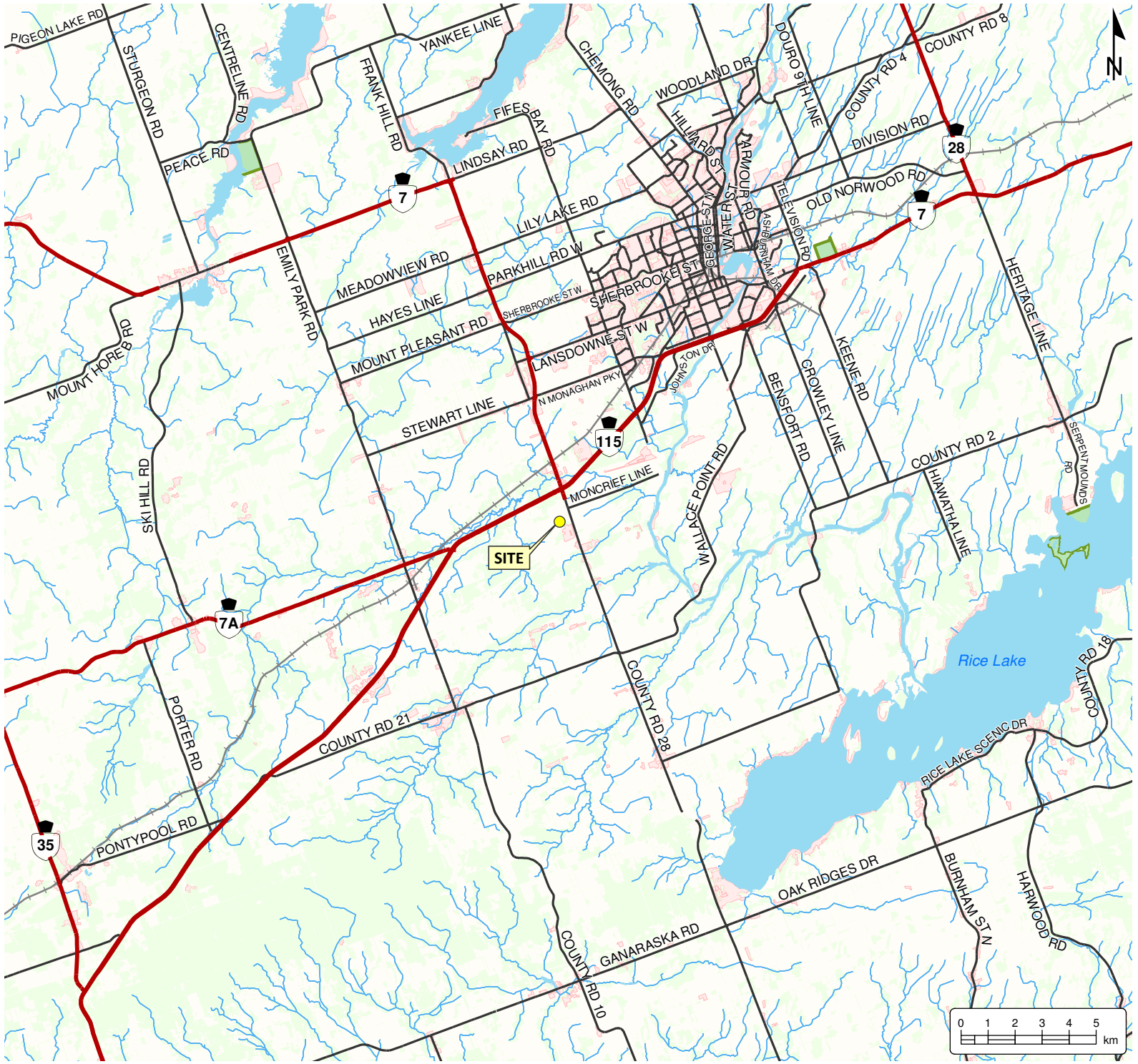
Figures



PHASE II ENVIRONMENTAL SITE ASSESSMENT

RIC (MOORE DRIVE) INC. &
RIC (HIGHWAY 28) INC.
1683 Moore Drive &1490 County Road 28,
Fraserville, Ontario

LEGEND

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

Notes:
- Base mapping features are © Queen's Printer of Ontario, 2019 (this does not constitute an endorsement by the Ministry of Natural Resources or the Ontario Government).
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

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SITE LOCATION MAP

Project No.: 12579-002		Date: August 2021 Rev.:	
Scale: 1:200,000		Projection: NAD 1983 UTM Zone 17N	
Created by: TLC	Checked by: BATS	Figure:	1

O:\GIS\MXDs\12500-12999\12579-002 RIC (KDL) Inc. - Phase I & II ESA - Kawartha Downs\2021-08-18 PII FIG 1 - Site Location Map.mxd

PHASE II ENVIRONMENTAL SITE ASSESSMENT

RIC (MOORE DRIVE) INC. &
RIC (HIGHWAY 28) INC.
1683 Moore Drive & 1490 County Road 28
Fraserville, Ontario

LEGEND

- Borehole
- Monitoring Well
- Site (approximate)

Notes:
- Base mapping features are © Queen's Printer of Ontario, 2019 (this does not constitute an endorsement by the Ministry of Natural Resources or the Ontario Government).
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

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SITE PLAN

Project No.: 12579-002		Date: August 2021	Rev.:
Scale: 1:7,000		Projection: NAD 1983 UTM Zone 17N	
Created by: TLC	Checked by: BATS	Figure: 2	

O:\GIS\MXDs\12500-12999\12579-002 RIC (KDL) Inc. - Phase I & II ESA - Kawartha Downs\2021-08-18 PII FIG 2 - Site Plan.mxd

Tables

Table 1 - Soil Quality

				Location	BH105	BH106	BH107	BH108	BH201	BH204	BH205	BH206	BH207	BH205
				Date	2021-07-23	2021-07-23	2021-07-23	2021-07-22	2021-07-27	2021-07-26	2021-07-28	2021-07-28	2021-07-27	2021-09-21
				Depth	0.25	0.3 - 0.6	0.3 - 0.6	3 - 3.8	0.3 - 0.6	0.7 - 1.3	0.75 - 1.2	0.3 - 0.6	0.75 - 1.2	0.75-1.2
	Unit	RDL	Table 1 - RPIICC											
BTEX														
Benzene	µg/g	0.02	0.02		<0.02	-	-	<0.02	-	-	-	-	-	-
Toluene	µg/g	0.05	0.2		<0.05	-	-	<0.05	-	-	-	-	-	-
Ethylbenzene	µg/g	0.05	0.05		<0.05	-	-	<0.05	-	-	-	-	-	-
Xylene Total	µg/g	0.05	0.05[#1]		<0.05	-	-	<0.05	-	-	-	-	-	-
PHCs														
PHC F1 - BTEX	µg/g	10	25[#2]		<10	-	-	<10	-	-	-	-	-	-
PHC F2	µg/g	10	10[#3]		<10	-	-	<10	-	-	-	-	-	-
PHC F3	µg/g	50	240[#4]		<50	-	-	<50	-	-	-	-	-	-
PHC F4	µg/g	50	120		<50	-	-	<50	-	-	-	-	-	-
Metals														
Antimony	µg/g	0.8	1.3		-	-	<0.8	-	-	<0.8	<0.8	-	-	< 0.8
Arsenic	µg/g	0.5	18		-	-	0.9	-	-	1.5	0.8	-	-	1.7
Barium	µg/g	0.1	220		-	-	27	-	-	33	20	-	-	35
Boron	µg/g	1	36		-	-	1	-	-	4	<1	-	-	2
Boron (hot water soluble)	µg/g	0.5			-	-	<0.5	-	-	<0.5	<0.5	-	-	-
Beryllium	µg/g	0.02	2.5		-	-	0.13	-	-	0.23	0.22	-	-	0.32
Cadmium	µg/g	0.02	1.2		-	-	0.08	-	-	0.04	0.03	-	-	0.14
Chromium (VI)	µg/g	0.2	0.66		-	-	<0.2	-	-	<0.2	<0.2	-	-	-
Chromium (III+VI)	µg/g	0.5	70		-	-	6.7	-	-	7.5	16	-	-	7.7
Cobalt	µg/g	0.01	21		-	-	2.0	-	-	3.0	4.5	-	-	2.9
Cyanide (Free)	µg/g	0.05	0.051		-	-	-	-	-	<0.05	-	-	-	-
Copper	µg/g	0.1	92		-	-	1.9	-	-	5.7	21	-	-	3.7
Lead	µg/g	0.1	120		-	-	2.1	-	-	3.0	5.8	-	-	3.5
Mercury	µg/g	0.05	0.27		-	-	<0.05	-	-	<0.05	<0.05	-	-	-
Molybdenum	µg/g	0.1	2		-	-	0.2	-	-	0.2	0.4	-	-	0.2
Nickel	µg/g	0.5	82		-	-	3.1	-	-	5.4	10.0	-	-	3.9
Selenium	µg/g	0.7	1.5		-	-	<0.7	-	-	<0.7	<0.7	-	-	< 0.7
Silver	µg/g	0.05	0.5		-	-	<0.05	-	-	<0.05	<0.05	-	-	< 0.05
Thallium	µg/g	0.02	1		-	-	0.03	-	-	0.07	0.05	-	-	0.05
Uranium	µg/g	0.002	2.5		-	-	0.36	-	-	0.41	2.6	-	-	0.46
Vanadium	µg/g	3	86		-	-	14	-	-	13	21	-	-	17
Zinc	µg/g	0.7	290		-	-	12	-	-	15	19	-	-	14
Organochlorine Pesticides														
o,p-DDD	µg/g	0.02			-	<0.02	-	-	<0.02	-	-	<0.02	<0.02	-
p,p'-DDD	µg/g	0.02			-	<0.02	-	-	<0.02	-	-	<0.02	<0.02	-
DDD (Total)	µg/g	0.05	0.05		-	<0.05	-	-	<0.05	-	-	<0.05	<0.05	-
o,p'-DDE	µg/g	0.02			-	<0.02	-	-	<0.02	-	-	<0.02	<0.02	-
p,p'-DDE	µg/g	0.02			-	<0.02	-	-	<0.02	-	-	<0.02	<0.02	-
DDE (Total)	µg/g	0.05	0.05		-	<0.05	-	-	<0.05	-	-	<0.05	<0.05	-
o,p'-DDT	µg/g	0.02			-	<0.02	-	-	<0.02	-	-	<0.02	<0.02	-
p,p'-DDT	µg/g	0.02			-	<0.02	-	-	<0.02	-	-	<0.02	<0.02	-
DDT (total)	mg/kg	0.05	1.4		-	<0.05	-	-	<0.05	-	-	<0.05	<0.05	-
Aldrin	µg/g	0.05	0.05		-	<0.05	-	-	<0.05	-	-	<0.05	<0.05	-
chlordane	µg/g	0.05	0.05		-	<0.05	-	-	<0.05	-	-	<0.05	<0.05	-
Chlordane (cis)	µg/g	0.02			-	<0.02	-	-	<0.02	-	-	<0.02	<0.02	-
Chlordane (trans)	µg/g	0.02			-	<0.02	-	-	<0.02	-	-	<0.02	<0.02	-
Dieldrin	µg/g	0.05	0.05		-	<0.05	-	-	<0.05	-	-	<0.05	<0.05	-
Endosulfan	µg/g	0.04	0.04		-	<0.05	-	-	<0.04	-	-	<0.04	<0.04	-
Endosulfan I	µg/g	0.02			-	<0.03	-	-	<0.02	-	-	<0.02	<0.02	-
Endosulfan II	µg/g	0.02			-	<0.03	-	-	<0.02	-	-	<0.02	<0.02	-
Endrin	µg/g	0.04	0.04		-	<0.04	-	-	<0.04	-	-	<0.04	<0.04	-
g-BHC (Lindane)	µg/g	0.01	0.01		-	<0.01	-	-	<0.01	-	-	<0.01	<0.01	-
Heptachlor	µg/g	0.01	0.05		-	<0.02	-	-	<0.01	-	-	<0.01	<0.01	-
Heptachlor epoxide	µg/g	0.01	0.05		-	<0.01	-	-	<0.01	-	-	<0.01	<0.01	-
Hexachlorobenzene	µg/g	0.01	0.01		-	<0.02	-	-	<0.01	-	-	<0.01	<0.01	-
Hexachlorobutadiene	µg/g	0.01	0.01		-	<0.01	-	-	<0.01	-	-	<0.01	<0.01	-
Hexachloroethane	µg/g	0.01	0.01		-	<0.01	-	-	<0.01	-	-	<0.01	<0.01	-
Methoxychlor	µg/g	0.05	0.05		-	<0.05	-	-	<0.05	-	-	<0.05	<0.05	-
Inorganics														
Conductivity (lab)	mS/cm	0.002	0.57		-	-	-	-	-	0.11	-	-	-	-
Sodium Adsorption Ratio	---	0.2	2.4		-	-	-	-	-	<0.2	-	-	-	-
pH (Lab)	-	0.05	9..11		-	-	-	-	-	7.93	-	-	-	-

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.

Environmental Standards

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (MOE, 2011), Table 1 - RPIICC

Table 2 - Groundwater Quality

			Location	BH108	BH204	BH204
			Date	2021-07-26	2021-08-04	2021-09-21
	Unit	RDL	Table 1 - All Types of Property Use			
BTEX						
Benzene	µg/L	0.5	0.5	<0.5	<0.5	<0.5
Toluene	µg/L	0.5	0.8	<0.5	1.2	<0.5
Ethylbenzene	µg/L	0.5	0.5	<0.5	<0.5	<0.5
Xylene Total	µg/L	0.5	72[#1]	<0.5	1.0	<0.5
PHCs						
PHC F1 - BTEX	µg/L	25	420[#2]	<25	-	-
PHC F2	µg/L	100	150[#3]	<100	<100	-
PHC F3	µg/L	200	500[#4]	<200	<200	-
PHC F4	µg/L	200	500	<200	<200	-
VOCs						
Acetone	µg/L	30	2,700	<30	<30	-
Bromodichloromethane	µg/L	0.5	2	<0.5	<0.5	-
Bromoform	µg/L	0.5	5	<0.5	<0.5	-
Bromomethane	µg/L	0.5	0.89	<0.5	<0.5	-
Carbon tetrachloride	µg/L	0.2	0.2	<0.2	<0.2	-
Chlorobenzene	µg/L	0.5	0.5	<0.5	<0.5	-
Chloroform	µg/L	0.5	2	<0.5	<0.5	-
Dibromochloromethane	µg/L	0.5	2	<0.5	<0.5	-
Dichlorobenzene, 1,2-	µg/L	0.5	0.5	<0.5	<0.5	-
Dichlorobenzene, 1,3-	µg/L	0.5	0.5	<0.5	<0.5	-
Dichlorobenzene, 1,4-	µg/L	0.5	0.5	<0.5	<0.5	-
Dichlorodifluoromethane	µg/L	2	590	<2	<2	-
Dichloroethane, 1,1-	µg/L	0.5	0.5	<0.5	<0.5	-
Dichloroethane, 1,2-	µg/L	0.5	0.5	<0.5	<0.5	-
Dichloroethylene, 1,1-	µg/L	0.5	0.5	<0.5	<0.5	-
Dichloroethylene,1,2-trans-	µg/L	0.5	1.6	<0.5	<0.5	-
Dichloroethylene, 1,2-cis-	µg/L	0.5	1.6	<0.5	<0.5	-
Dichloropropane, 1,2-	µg/L	0.5	0.5	<0.5	<0.5	-
Dichloropropene, 1,3-(cis+trans)	µg/L	0.5	0.5	<0.5	<0.5	-
Ethylene dibromide	µg/L	0.2	0.2	<0.2	<0.2	-
Hexane	µg/L	1	5	<1	<1	-
Methyl Ethyl Ketone	µg/L	20	400	<20	<20	-
Methyl Isobutyl Ketone	µg/L	20	640	<20	<20	-
Methylene chloride	µg/L	0.5	5	<0.5	<0.5	-
Methyl tert-Butyl Ether	µg/L	2	15	<2	<2	-
Styrene	µg/L	0.5	0.5	<0.5	<0.5	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5	0.5	<0.5	<0.5	-
Tetrachloroethane, 1,1,1,2-	µg/L	0.5	1.1	<0.5	<0.5	-
Tetrachloroethylene	µg/L	0.5	0.5	<0.5	<0.5	-
Trichloroethane, 1,1,1-	µg/L	0.5	0.5	<0.5	<0.5	-
Trichloroethane, 1,1,2-	µg/L	0.5	0.5	<0.5	<0.5	-
Trichloroethylene	µg/L	0.5	0.5	<0.5	<0.5	-
Trichlorofluoromethane	µg/L	5	150	<5	<5	-
Vinyl chloride	µg/L	0.2	0.5	<0.2	<0.2	-
Metals						
Antimony	µg/L	0.9	1.5	<0.9	<0.9	-
Arsenic	µg/L	0.2	13	0.5	0.6	-
Barium	µg/L	0.02	610	195	61.6	-
Boron	µg/L	2	1,700	49	101	-
Beryllium	µg/L	0.007	0.5	<0.007	<0.007	-
Cadmium	µg/L	0.003	0.5	0.004	0.003	-
Chromium (VI)	µg/L	0.2	25	0.3	<0.2	-
Chromium (III+VI)	µg/L	0.08	11	0.40	0.12	-
Cobalt	µg/L	0.004	3.8	0.078	0.559	-
Copper	µg/L	0.2	5	0.8	2.5	-
Lead	µg/L	0.09	1.9	<0.09	0.10	-
Mercury	µg/L	0.01	0.1	<0.01	<0.01	-
Molybdenum	µg/L	0.04	23	1.84	5.74	-
Nickel	µg/L	0.1	14	0.2	2.1	-
Selenium	µg/L	0.04	5	0.82	0.27	-
Sodium	µg/L	10	490,000	5,320	26,500	-
Silver	µg/L	0.05	0.3	<0.05	<0.05	-
Thallium	µg/L	0.005	0.5	0.026	0.009	-
Uranium	µg/L	0.002	8.9	0.607	2.79	-
Vanadium	µg/L	0.01	3.9	0.86	0.64	-
Zinc	µg/L	2	160	2	6	-

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.

Environmental Standards

Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (MOE, 2011), Table 1 - All Types of Property Use

Appendix A

Borehole Logs

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Log of Borehole: BH105

Client:	RIC (Moore Drive) Inc. & RIC (Highway 28) Inc.	***Project Name:***	Phase II ESA	***Project No.:***	12579-002
Contractor:	Cambium Inc.	***Method:***	Hand Auger	***Date Completed:***	2021-07-23
Location:	1683 Moore Dr & 1409 CR 28, Fraserville	***UTM:***	-	***Elevation:***	-

SUBSURFACE PROFILE				SAMPLING INFO						
Depth (ft)	Depth (m)	Lithology	Description	Elevation (m)	Number	Type	% Recovery	CSV (ppm)	OV (ppm)	Well Installation	Remarks
0	0		Topsoil	0	1	HA	100	ND	ND		PHC, BTEX
1			SANDY SILT: brown, sandy silt, trace clay, moist, no odour, no staining		2	HA	100	ND	ND		
2			End borehole at 0.3 mbgs in sandy silt								
3	1			-1							
4											
5											
6	2			-2							
7											
8											
9											
10	3			-3							
11											
12											
13	4			-4							
14											
15											
16	5			-5							
17											
18											
19											
20	6			-6							
21											
22											
23	7			-7							
24											
25											
26	8			-8							
27											
28											
29	9			-9							
30											

Logged By: C. Fraser ***Input By:*** S. Elford

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Log of Borehole: BH106

Client:	RIC (Moore Drive) Inc. & RIC (Highway 28) Inc.	**Project Name:**	Phase II ESA	**Project No.:**	12579-002
Contractor:	Cambium Inc.	**Method:**	Hand Auger	**Date Completed:**	2021-07-23
Location:	1683 Moore Dr & 1409 CR 28, Fraserville	**UTM:**	-	**Elevation:**	-

SUBSURFACE PROFILE					SAMPLING INFO						
Depth (ft)	Depth (m)	Lithology	Description	Elevation (m)	Number	Type	% Recovery	CSV (ppm)	OV (ppm)	Well Installation	Remarks
0	0		TOPSOIL	0	1	HA	100	ND	ND		
1			SANDY SILT: brown, sandy silt, damp, no odour, no staining		2	HA	100	ND	ND		OC Pesticides
2					3	HA	100	ND	ND		
3	1		- grey colouring, wet	-1	4	HA	100	ND	ND		
4					5	HA	100	ND	ND		
5			End borehole at 1.5 mbgs in sandy silt								
6	2			-2							
7											
8											
9											
10	3			-3							
11											
12											
13	4			-4							
14											
15											
16	5			-5							
17											
18											
19											
20	6			-6							
21											
22											
23	7			-7							
24											
25											
26	8			-8							
27											
28											
29											
30	9			-9							

Logged By: C. Fraser **Input By:** S. Elford

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Log of Borehole: BH107

Client:	RIC (Moore Drive) Inc. & RIC (Highway 28) Inc.	**Project Name:**	Phase II ESA	**Project No.:**	12579-002
Contractor:	Cambium Inc.	**Method:**	Hand Auger	**Date Completed:**	2021-07-23
Location:	1683 Moore Dr & 1409 CR 28, Fraserville	**UTM:**	-	**Elevation:**	-

SUBSURFACE PROFILE					SAMPLING INFO						
Depth (ft)	Depth (m)	Lithology	Description	Elevation (m)	Number	Type	% Recovery	CSV (ppm)	OV (ppm)	Well Installation	Remarks
0	0		TOPSOIL	0	1	HA	100	ND	ND		
1			SANDY SILT: brown, sandy silt, dry, no odour, no staining		2	HA	100	ND	ND		Metals
2					3	HA	100	ND	ND		
3	1			-1	4	HA	100	ND	ND		
4					5	HA	100	ND	ND		
5			End borehole at 1.5 mbgs in sandy silt								
6	2			-2							
7											
8											
9											
10	3			-3							
11											
12											
13	4			-4							
14											
15											
16	5			-5							
17											
18											
19											
20	6			-6							
21											
22											
23	7			-7							
24											
25											
26	8			-8							
27											
28											
29											
30	9			-9							

Logged By: C. Fraser **Input By:** S. Elford

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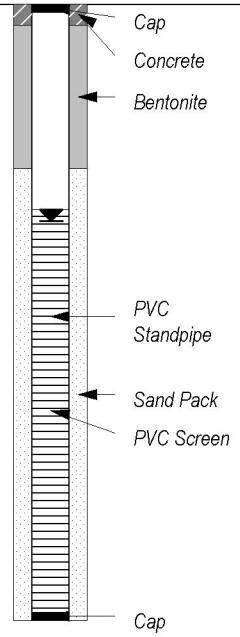
Log of Borehole: BH108

Client:	RIC (Moore Drive) Inc. & RIC (Highway 28) Inc.	**Project Name:**	Phase II ESA	**Project No.:**	12579-002
Contractor:	Strata Drilling Group	**Method:**	Direct Push	**Date Completed:**	2021-07-22
Location:	1683 Moore Dr & 1409 CR 28, Fraserville	**UTM:**	-	**Elevation:**	-

SUBSURFACE PROFILE					SAMPLING INFO						
Depth (ft)	Depth (m)	Lithology	Description	Elevation (m)	Number	Type	% Recovery	CSV (ppm)	OV (ppm)	Well Installation	Remarks
0	0		TOPSOIL	0						Cap	
1			SANDY SILT: brown, sandy silt, damp, no odour, no staining		1	DT	100	ND	ND	Concrete	
2										Bentonite	
3	1			-1	2	DT	100	ND	ND		
4											
5			- grey colouring, increasing clay								
6					3	DT	100	ND	ND		
7	2			-2							
8			SILTY CLAY: grey, silty clay, wet, no odour, no staining		4	DT	100	ND	ND	PVC Standpipe	
9											
10	3			-3						Sand Pack	
11					5	DT	100	ND	ND	PVC Screen	PHC, BTEX
12											
13	4		- black staining - cobbles	-4							
14					6	DT	100	ND	ND		
15											
16			End borehole at 4.5 mbgs in silty clay								
17	5			-5							
18											
19											
20	6			-6							
21											
22											
23	7			-7							
24											
25											
26	8			-8							
27											
28											
29	9			-9							
30											



Logged By: C. Fraser **Input By:** S. Elford

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Log of Borehole: BH201

Client: RIC (Moore Drive) Inc. & RIC (Highway 28) Inc. **Project Name:** Phase II ESA **Project No.:** 12579-002

Contractor: Canadian Environmental Drilling **Method:** Solid Stem Auger **Date Completed:** 2021-07-27

Location: 1683 Moore Dr & 1409 CR 28, Fraserville **UTM:** - **Elevation:** -

SUBSURFACE PROFILE					SAMPLING INFO						
Depth (ft)	Depth (m)	Lithology	Description	Elevation (m)	Number	Type	% Recovery	CSV (ppm)	OV (ppm)	Well Installation	Remarks
0	0		TOPSOIL	0							
1			SAND: Brown, sand, some silt, dry to moist, loose, no odour, no stain		1	SS	100	ND	ND		OC Pesticides
2											
3	1		SANDY SILT: Light brown, sandy silt, trace gravel, dry to moist, dense, no odour, no stain	-1	2	SS	100	ND	ND		
4											
5			SILTY SAND: Light brown, silty gravelly sand, trace clay, moist, compact, no odour, no stain		3	SS	40	ND	ND		
6	2			-2							
7											
8			-becomes moist to wet		4	SS	30	ND	ND		
9											
10	3			-3							
11					5	SS	80	ND	ND		
12											
13	4			-4							
14			SILTY SAND: Grey, silty gravelly sand, trace clay, moist to wet, compact, no odour, no stain								
15											
16					6	SS	100	ND	ND		
17	5			-5							
18											
19											
20	6			-6							
21			-becomes wet, very dense		7	SS	80	ND	ND		
22											
23	7			-7							
24											
25											
26	8		-becomes compact	-8	8	SS	100	ND	ND		
27			End borehole at 8.1 mbgs in silty gravelly sand								
28											
29	9			-9							
30											

Logged By: J. Riseling **Input By:** S. Elford

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Log of Borehole: BH204

Client: RIC (Moore Drive) Inc. & RIC (Highway 28) Inc. **Project Name:** Phase II ESA **Project No.:** 12579-002

Contractor: Canadian Environmental Drilling **Method:** Solid Stem Auger **Date Completed:** 2021-07-26

Location: 1683 Moore Dr & 1409 CR 28, Fraserville **UTM:** - **Elevation:** -

Depth (ft)	Depth (m)	Description	Elevation (m)	Number	Type	% Recovery	CSV (ppm)	OV (ppm)	Remarks
0	0	TOPSOIL	0	1	SS	40	ND	ND	
3	1	SILTY SAND: Light brown, silty sand, some gravel, trace clay, dry to moist, dense, no odour, no stain	-1	2	SS	60	ND	ND	M&I
7	2	-becomes compact, moist	-2	3	SS	65	ND	ND	
8		SAND AND SILT: Light brown, sand and silt, some clay, some gravel, moist to wet, compact, no odour, no stain		4	SS	30	ND	ND	
10	3		-3	5	SS	100	ND	ND	
11		-becomes dense							
13	4	-becomes very dense	-4	6	SS	80	ND	ND	
16	5		-5	7	SS	100	ND	ND	
17		SAND AND SILT: Grey, sand and silt, some clay, trace gravel, moist to wet, very dense, no odour, no stain		8	SS	100	ND	ND	
19	6		-6	9	SS	50	ND	ND	
22									
23	7	SAND AND SILT: Grey, sand and silt, some clay, some gravel, moist to wet, very dense, no odour, no stain	-7	10	SS	50	ND	ND	
25		SAND AND SILT: Grey, sand and silt, some clay, saturated, very dense, no odour, no stain		11	SS	70	ND	ND	
26	8		-8						
27		End borehole at 8.23 mbgs in sand and silt							
30	9		-9						

Well Installation: Cap; Concrete; PVC Standpipe; Bentonite; Sand Pack; PVC Screen; Cap

Logged By: J. Riseling **Input By:** S. Elford

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Log of Borehole: BH205

Client:	RIC (Moore Drive) Inc. & RIC (Highway 28) Inc.	**Project Name:**	Phase II ESA	**Project No.:**	12579-002
Contractor:	Canadian Environmental Drilling	**Method:**	Solid Stem Auger	**Date Completed:**	2021-07-28
Location:	1683 Moore Dr & 1409 CR 28, Fraserville	**UTM:**	-	**Elevation:**	-

SUBSURFACE PROFILE					SAMPLING INFO						
Depth (ft)	Depth (m)	Lithology	Description	Elevation (m)	Number	Type	% Recovery	CSV (ppm)	OV (ppm)	Well Installation	Remarks
0	0		TOPSOIL	0							
1			SAND: Brown, sand, some silt, trace organics, dry to moist, loose, no odour, no stain		1	SS	75	ND	ND		
2											
3	1		SILTY SAND: Light brown, silty sand, some gravel, trace clay, dry to moist, compact, no odour, no stain	-1	2	SS	100	ND	ND		Metals
4											
5					3	SS	40	ND	ND		
6	2		-becomes loose	-2							
7											
8					4	SS	0	ND	ND		
9			-becomes compact								
10	3		SILTY SAND: Light brown, silty gravelly sand, some clay, moist, compact, no odour, no stain	-3	5	SS	80	ND	ND		
11											
12											
13	4			-4							
14											
15											
16	5		-becomes moist to wet, dense	-5	6	SS	100	ND	ND		
17											
18											
19											
20	6			-6							
21			-becomes grey, very dense		7	SS	60	ND	ND		
22											
23	7		End borehole at 6.55 mbgs in silty gravelly sand	-7							
24											
25											
26	8			-8							
27											
28											
29											
30	9			-9							

Logged By: J. Riseling **Input By:** S. Elford

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Log of Borehole: BH206

Client: RIC (Moore Drive) Inc. & RIC (Highway 28) Inc.
Project Name: Phase II ESA
Project No.: 12579-002
Contractor: Canadian Environmental Drilling
Method: Solid Stem Auger
Date Completed: 2021-07-28
Location: 1683 Moore Dr & 1409 CR 28, Fraserville
UTM: -
Elevation: -

SUBSURFACE PROFILE					SAMPLING INFO						
Depth (ft)	Depth (m)	Lithology	Description	Elevation (m)	Number	Type	% Recovery	CSV (ppm)	OV (ppm)	Well Installation	Remarks
0	0		TOPSOIL	0							
1			SAND AND SILT: Brown, sand and silt, moist, loose, no odour, no stain		1	SS	100	ND	ND		OC Pesticides
2											
3	1		SILTY SAND: Brown, silty sand, some gravel, trace clay, moist to wet, compact, no odour, no stain	-1	2	SS	60	ND	ND		
4											
5			SILTY SAND: Light brown, silty gravelly sand, some clay, moist to wet, compact, no odour, no stain		3	SS	70	ND	ND		
6	2			-2							
7					4	SS	100	ND	ND		
8											
9											
10	3			-3	5	SS	70	ND	ND		
11											
12											
13	4			-4							
14											
15											
16			-becomes very dense		6	SS	100	ND	ND		
17	5			-5							
18											
19											
20	6			-6							
21			-becomes grey, wet		7	SS	50	ND	ND		
22											
23	7		End borehole at 6.55 mbgs in silty gravelly sand	-7							
24											
25											
26	8			-8							
27											
28											
29											
30	9			-9							

Logged By: J. Riseling
Input By: S. Elford

CAMBIUM
Peterborough
Barrie
Oshawa
Kingston
T: 866-217-7900
www.cambium-inc.com

Log of Borehole: BH207

Client:	RIC (Moore Drive) Inc. & RIC (Highway 28) Inc.	**Project Name:**	Phase II ESA	**Project No.:**	12579-002
Contractor:	Canadian Environmental Drilling	**Method:**	Solid Stem Auger	**Date Completed:**	2021-07-27
Location:	1683 Moore Dr & 1409 CR 28, Fraserville	**UTM:**	-	**Elevation:**	-

SUBSURFACE PROFILE					SAMPLING INFO						
Depth (ft)	Depth (m)	Lithology	Description	Elevation (m)	Number	Type	% Recovery	CSV (ppm)	OV (ppm)	Well Installation	Remarks
0	0		TOPSOIL	0	1	SS	50	ND	ND		
3	1		SILTY SAND: Light brown, silty sand, some gravel, trace clay, moist to wet, compact, no odour, no stain	-1	2	SS	100	ND	ND		OC Pesticides
5			SAND AND SILT: Light brown, sand and silt, some gravel, trace clay, saturated, compact, no odour, no stain		3	SS	0	ND	ND		
7	2			-2							
8			-becomes dense		4	SS	50	ND	ND		
10	3			-3	5	SS	40	ND	ND		
13	4			-4							
16	5		-becomes light brown/grey, very dense	-5	6	SS	100	ND	ND		
20	6			-6							
21					7	SS	100	ND	ND		
23	7		End borehole at 6.55 mbgs in sand and silt	-7							
26	8			-8							
29	9			-9							
30											

Logged By: J. Riseling **Input By:** S. Elford

Appendix B

Laboratory Certificates of Analysis

FINAL REPORT

CA14461-JUL21 R

12579-002

Prepared for

Cambium Inc.

FINAL REPORT

CA14461-JUL21 R

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	Cambium Inc.	Project Specialist	Brad Moore Hon. B.Sc
		Laboratory	SGS Canada Inc.
Address	194 Sofia Street Peterborough, ON K9H 1E3. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Bernie Taylor	Telephone	705-652-2143
Telephone	705-742-7900 ext 200	Facsimile	705-652-6365
Facsimile	705-742-7907	Email	brad.moore@sgs.com
Email	bernie.taylor@cambium-inc.com; file@cambium-inc.com	SGS Reference	CA14461-JUL21
Project	12579-002	Received	07/22/2021
Order Number		Approved	07/28/2021
Samples	Soil (1)	Report Number	CA14461-JUL21 R
		Date Reported	07/28/2021

COMMENTS

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

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

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

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

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

Linearity is within 15%: YES

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

Hydrocarbon results are expressed on a dry weight basis.

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

Temperature of Sample upon Receipt: 13 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:025800

SIGNATORIES

Brad Moore Hon. B.Sc

TABLE OF CONTENTS

Client: Cambium Inc.
Project: 12579-002
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

Sample Number	11
Sample Name	BH108_3.0-3.8
Sample Matrix	Soil
Sample Date	22/07/2021

Parameter	Units	RL	L1	Result
BTEX				
Benzene	µg/g	0.02	0.02	< 0.02
Ethylbenzene	µg/g	0.05	0.05	< 0.05
Toluene	µg/g	0.05	0.2	< 0.05
Xylene (total)	µg/g	0.05	0.05	< 0.05
m/p-xylene	µg/g	0.05		< 0.05
o-xylene	µg/g	0.05		< 0.05

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

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

Sample Number	11
Sample Name	BH108_3.0-3.8
Sample Matrix	Soil
Sample Date	22/07/2021

Parameter	Units	RL	L1	Result
Metals and Inorganics				
Moisture Content	%	-		7.7

Client: Cambium Inc.
Project: 12579-002
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

Sample Number	11
Sample Name	BH108_3.0-3.8
Sample Matrix	Soil
Sample Date	22/07/2021

PHCs

Parameter	Units	RL	L1	Result
F1 (C6-C10)	µg/g	10	25	< 10
F1-BTEX (C6-C10)	µg/g	10		< 10
F2 (C10-C16)	µg/g	10	10	< 10
F3 (C16-C34)	µg/g	50	240	< 50
F4 (C34-C50)	µg/g	50	120	< 50
Chromatogram returned to baseline at nC50	Yes / No	-		YES

EXCEEDANCE SUMMARY

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

QC SUMMARY

Petroleum Hydrocarbons (F1)

Method: CCME Tier 1 I Internal ref.: ME-CA-[ENV]GC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F1 (C6-C10)	GCM0414-JUL21	µg/g	10	<10	ND	30	103	80	120	99	60	140

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 I Internal ref.: ME-CA-[ENV]GC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0437-JUL21	µg/g	10	<10	ND	30	101	80	120	113	60	140
F3 (C16-C34)	GCM0437-JUL21	µg/g	50	<50	26	30	101	80	120	113	60	140
F4 (C34-C50)	GCM0437-JUL21	µg/g	50	<50	ND	30	101	80	120	113	60	140

QC SUMMARY

Volatile Organics

Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-[ENV]GC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Benzene	GCM0414-JUL21	µg/g	0.02	<0.02	0	50	90	60	130	88	50	140
Ethylbenzene	GCM0414-JUL21	µg/g	0.05	<0.05	ND	50	83	60	130	85	50	140
m/p-xylene	GCM0414-JUL21	µg/g	0.05	<0.05	1	50	87	60	130	89	50	140
o-xylene	GCM0414-JUL21	µg/g	0.05	<0.05	ND	50	86	60	130	89	50	140
Toluene	GCM0414-JUL21	µg/g	0.05	<0.05	ND	50	85	60	130	86	50	140

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

QC SUMMARY

LEGEND

FOOTNOTES

NSS Insufficient sample for analysis.
RL Reporting Limit.
↑ Reporting limit raised.
↓ Reporting limit lowered.
NA The sample was not analysed for this analyte
ND Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act" published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No: 025800 Page 1 of 1

Laboratory Information Section - Lab use only

Received By: Mark Dapks
Received Date: 07/22/2021 (mm/dd/yy)
Received Time: 16 : 25 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☒ No ☐
Custody Seal Intact: Yes ☐ No ☒
Cooling Agent Present: Yes ☒ No ☐ Type: ICE
Temperature Upon Receipt (°C) 13.13.13
LAB LIMS #: CA 14461-JUL21

REPORT INFORMATION

Company: Cambium Inc
Contact: Bernie Taylor
Address: 194 Sophia Street
Peterborough
Phone: 705-768-4749
Fax: -
Email: bernie.taylor@cambium-inc.com

INVOICE INFORMATION

☑ (same as Report Information)
Company:
Contact:
Address:
Phone:
Email:

Quotation #:
P.O. #:
Project #: 12579-002
Site Location/ID:

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)
TAT's are quoted in business days (exclude statutory holidays & weekends).
Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days
PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

*NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

☐ O.Reg 153/04 ☐ O.Reg 406/19

☑ Table 1 ☐ Res/Park Soil Texture: ☐ Coarse
☐ Table 2 ☐ Ind/Com ☐ Medium/Fine
☐ Table 3 ☐ Agri/Other
☐ Table _____ Appx. _____
Soil Volume ☐ <350m3 ☐ >350m3

Other Regulations:
☐ Reg 347/558 (3 Day min TAT)
☐ PWQO ☐ MMER
☐ CCME ☐ Other:
☐ MISA
☐ ODWS Not Reportable *See note

Sewer By-Law:
☐ Sanitary
☐ Storm
Municipality:

RECORD OF SITE CONDITION (RSC) ☐ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX
1	BH101_0-0.8	07-22-21	-	1	Soil
2	BH108_0.8-1.5	"	-	1	"
3	BH101_3.0-3.8	"	-	3	"
4	BH108_3.0-3.8	"	-	3	"
5					
6					
7					
8					
9					
10					
11					
12					

	Field Filtered (Y/N)	M&I: Metals & Inorganics (incl CrVI, CN, Hg pH,(B(HWS),EC,SAR-soil) (Cl, Na-water)	M&I: Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	M&I: ICP Metals only Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,	SVOC: PAHs only	SVOC: SVOCs all incl PAHs, ABNs, CPs	PCB: PCBs Total ☐ Aroclor ☐	PHC: F1-F4 + BTEX	PHC: F1-F4 only no BTEX	VOC: VOCs all incl BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other (please specify)	Other	Other	Other	Other	Sewer Use: Specify pkg:	Water Characterization Pkg: General ☐ Extended ☐	SPLP: Specify tests	TCLP: Specify tests	COMMENTS:
1					X	X		X	X												PAH on hold
2					X	X		X	X												PAH on hold
3								X	X												
4								X	X												

SPLP: ☐ Metals ☐ VOC ☐ 1,4-Dioxane ☐ OCP ☐ ABN
TCLP: ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.

Observations/Comments/Special Instructions

Sampled By (NAME): Conor Frazer Signature: Date: 07/22/21 (mm/dd/yy)
Relinquished by (NAME): Conor Frazer Signature: Date: 07/22/21 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.5
Date of Issue: 11 June 2021

FINAL REPORT

CA14737-JUL21 R

12579-002,

Prepared for

Cambium Inc.

FINAL REPORT

CA14737-JUL21 R

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	Cambium Inc.	Project Specialist	Brad Moore Hon. B.Sc
		Laboratory	SGS Canada Inc.
Address	194 Sofia Street Peterborough, ON K9H 1E3. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Bernie Taylor	Telephone	705-652-2143
Telephone	705-742-7900 ext 200	Facsimile	705-652-6365
Facsimile	705-742-7907	Email	brad.moore@sgs.com
Email	bernie.taylor@cambium-inc.com; file@cambium-inc.com	SGS Reference	CA14737-JUL21
Project	12579-002,	Received	07/23/2021
Order Number		Approved	07/30/2021
Samples	Soil (3)	Report Number	CA14737-JUL21 R
		Date Reported	07/30/2021

COMMENTS

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

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

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

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

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

Linearity is within 15%: YES

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

Hydrocarbon results are expressed on a dry weight basis.

Temperature of Sample upon Receipt: 9 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:021280

SIGNATORIES

Brad Moore Hon. B.Sc

TABLE OF CONTENTS

Client: Cambium Inc.
Project: 12579-002,
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

Sample Number	8
Sample Name	BH105_0.25
Sample Matrix	Soil
Sample Date	23/07/2021

Parameter	Units	RL	L1	Result
BTEX				
Benzene	µg/g	0.02	0.02	< 0.02
Ethylbenzene	µg/g	0.05	0.05	< 0.05
Toluene	µg/g	0.05	0.2	< 0.05
Xylene (total)	µg/g	0.05	0.05	< 0.05
m/p-xylene	µg/g	0.05		< 0.05
o-xylene	µg/g	0.05		< 0.05

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

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

Sample Number	9
Sample Name	BH107_0.3-0.6
Sample Matrix	Soil
Sample Date	23/07/2021

Parameter	Units	RL	L1	Result
Hydrides				
Antimony	µg/g	0.8	1.3	< 0.8
Arsenic	µg/g	0.5	18	0.9
Selenium	µg/g	0.7	1.5	< 0.7

Client: Cambium Inc.
Project: 12579-002,
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

			Sample Number	8	9	10
			Sample Name	BH105_0.25	BH107_0.3-0.6	BH106_0.3-0.6
			Sample Matrix	Soil	Soil	Soil
			Sample Date	23/07/2021	23/07/2021	23/07/2021
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
Metals and Inorganics						
Moisture Content	%	-		16.2	11.5	18.8
Barium	µg/g	0.1	220		27	
Beryllium	µg/g	0.02	2.5		0.13	
Boron	µg/g	1	36		1	
Cadmium	µg/g	0.02	1.2		0.08	
Chromium	µg/g	0.5	70		6.7	
Cobalt	µg/g	0.01	21		2.0	
Copper	µg/g	0.1	92		1.9	
Lead	µg/g	0.1	120		2.1	
Molybdenum	µg/g	0.1	2		0.2	
Nickel	µg/g	0.5	82		3.1	
Silver	µg/g	0.05	0.5		< 0.05	
Thallium	µg/g	0.02	1		0.03	
Uranium	µg/g	0.002	2.5		0.36	
Vanadium	µg/g	3	86		14	
Zinc	µg/g	0.7	290		12	
Water Soluble Boron	µg/g	0.5			< 0.5	

Client: Cambium Inc.
Project: 12579-002,
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

Sample Number	10
Sample Name	BH106_0.3-0.6
Sample Matrix	Soil
Sample Date	23/07/2021

Organochlorine Pests (OCs)

Parameter	Units	RL	L1	Result
Aldrin	µg/g	0.05	0.05	< 0.05
alpha-Chlordane	µg/g	0.02		< 0.02
gamma-Chlordane	µg/g	0.02		< 0.02
Chlordane (total)	µg/g	0.05	0.05	< 0.05
o,p-DDD	µg/g	0.02		< 0.02
pp-DDD	µg/g	0.02		< 0.02
DDD (total)	µg/g	0.05	0.05	< 0.05
o,p-DDE	µg/g	0.02		< 0.02
pp-DDE	µg/g	0.02		< 0.02
DDE (total)	µg/g	0.05	0.05	< 0.05
op-DDT	µg/g	0.02		< 0.02
pp-DDT	µg/g	0.02		< 0.02
DDT (total)	µg/g	0.05	1.4	< 0.05
Dieldrin	µg/g	0.05	0.05	< 0.05
gamma-BHC	µg/g	0.01	0.01	< 0.01
Endosulfan I	µg/g	0.02		< 0.03↑
Endosulfan II	µg/g	0.02		< 0.03↑
Endosulfan (total)	µg/g	0.04	0.04	< 0.05↑
Endrin	µg/g	0.04	0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	< 0.02↑
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	< 0.02↑

Client: Cambium Inc.
Project: 12579-002,
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

Sample Number	10
Sample Name	BH106_0.3-0.6
Sample Matrix	Soil
Sample Date	23/07/2021

Parameter	Units	RL	L1	Result
Organochlorine Pests (OCs) (continued)				
Hexachlorobutadiene	µg/g	0.01	0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	< 0.05

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

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

Sample Number	9
Sample Name	BH107_0.3-0.6
Sample Matrix	Soil
Sample Date	23/07/2021

Parameter	Units	RL	L1	Result
Other (ORP)				
Mercury	ug/g	0.05	0.27	< 0.05
Chromium VI	µg/g	0.2	0.66	< 0.2

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

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

Sample Number	10
Sample Name	BH106_0.3-0.6
Sample Matrix	Soil
Sample Date	23/07/2021

Parameter	Units	RL	L1	Result
Pesticides Surrogate				
Surr Decachlorobiphenyl	Surr Rec %	-		92

Client: Cambium Inc.
Project: 12579-002,
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

Sample Number	8
Sample Name	BH105_0.25
Sample Matrix	Soil
Sample Date	23/07/2021

Parameter	Units	RL	L1	Result
PHCs				
F1 (C6-C10)	µg/g	10	25	< 10
F1-BTEX (C6-C10)	µg/g	10		< 10
F2 (C10-C16)	µg/g	10	10	< 10
F3 (C16-C34)	µg/g	50	240	< 50
F4 (C34-C50)	µg/g	50	120	< 50
Chromatogram returned to baseline at nC50	Yes / No	-		YES

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

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

Sample Number	10
Sample Name	BH106_0.3-0.6
Sample Matrix	Soil
Sample Date	23/07/2021

Parameter	Units	RL	L1	Result
VOC Surrogates				
Surr TCMX	Surr Rec %	-		83

EXCEEDANCE SUMMARY

Parameter	Method	Units	Result	REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED L1
BH106_0.3-0.6				
Endosulfan	EPA 3541/8270D	µg/g	< 0.05	0.04
Hexachlorobenzene	EPA 3541/8270D	µg/g	< 0.02	0.01

QC SUMMARY

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENVISKA-LAK-AN-012

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chromium VI	SKA5108-JUL21	ug/g	0.2	<0.2	ND	20	94	80	120	91	75	125

Mercury by CVAAS

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Mercury	EMS0148-JUL21	ug/g	0.05	<0.05	ND	20	107	80	120	87	70	130

QC SUMMARY

Metals in Soil - Aqua-regia/ICP-MS

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Silver	EMS0148-JUL21	ug/g	0.05	<0.05	ND	20	96	70	130	94	70	130
Arsenic	EMS0148-JUL21	µg/g	0.5	<0.5	10	20	100	70	130	90	70	130
Barium	EMS0148-JUL21	ug/g	0.1	<0.1	19	20	101	70	130	92	70	130
Beryllium	EMS0148-JUL21	µg/g	0.02	<0.02	10	20	100	70	130	82	70	130
Boron	EMS0148-JUL21	µg/g	1	<1	2	20	102	70	130	85	70	130
Cadmium	EMS0148-JUL21	µg/g	0.02	<0.02	18	20	99	70	130	90	70	130
Cobalt	EMS0148-JUL21	µg/g	0.01	<0.01	11	20	100	70	130	95	70	130
Chromium	EMS0148-JUL21	µg/g	0.5	<0.5	18	20	101	70	130	98	70	130
Copper	EMS0148-JUL21	µg/g	0.1	<0.1	12	20	99	70	130	89	70	130
Molybdenum	EMS0148-JUL21	µg/g	0.1	<0.1	15	20	96	70	130	96	70	130
Nickel	EMS0148-JUL21	ug/g	0.5	<0.5	8	20	97	70	130	90	70	130
Lead	EMS0148-JUL21	µg/g	0.1	<0.1	10	20	106	70	130	93	70	130
Antimony	EMS0148-JUL21	µg/g	0.8	<0.8	ND	20	99	70	130	72	70	130
Selenium	EMS0148-JUL21	µg/g	0.7	<0.7	ND	20	94	70	130	91	70	130
Thallium	EMS0148-JUL21	µg/g	0.02	<0.02	ND	20	102	70	130	83	70	130
Uranium	EMS0148-JUL21	µg/g	0.002	<0.002	ND	20	100	70	130	84	70	130
Vanadium	EMS0148-JUL21	µg/g	3	<3	13	20	99	70	130	96	70	130
Zinc	EMS0148-JUL21	µg/g	0.7	<0.7	14	20	99	70	130	89	70	130

QC SUMMARY

Pesticides

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Aldrin	GCM0470-JUL21	µg/g	0.05	< 0.05	ND	40	86	50	140	92	50	140
alpha-Chlordane	GCM0470-JUL21	µg/g	0.02	< 0.02	ND	40	83	50	140	96	50	140
Dieldrin	GCM0470-JUL21	µg/g	0.05	< 0.05	ND	40	86	50	140	98	50	140
Endosulfan I	GCM0470-JUL21	µg/g	0.02	< 0.02	ND	40	85	50	140	95	50	140
Endosulfan II	GCM0470-JUL21	µg/g	0.02	< 0.02	ND	40	82	50	140	96	50	140
Endrin	GCM0470-JUL21	µg/g	0.04	< 0.04	ND	40	83	50	140	98	50	140
gamma-BHC	GCM0470-JUL21	µg/g	0.01	< 0.01	ND	40	90	50	140	101	50	140
gamma-Chlordane	GCM0470-JUL21	µg/g	0.02	< 0.02	ND	40	84	50	140	90	50	140
Heptachlor epoxide	GCM0470-JUL21	µg/g	0.01	< 0.01	ND	40	84	50	140	89	50	140
Heptachlor	GCM0470-JUL21	µg/g	0.01	< 0.01	ND	40	84	50	140	88	50	140
Hexachlorobenzene	GCM0470-JUL21	µg/g	0.01	< 0.01	ND	40	85	50	140	92	50	140
Hexachlorobutadiene	GCM0470-JUL21	µg/g	0.01	< 0.01	ND	40	84	50	140	89	50	140
Hexachloroethane	GCM0470-JUL21	µg/g	0.01	< 0.01	ND	40	81	50	140	87	50	140
Methoxychlor	GCM0470-JUL21	µg/g	0.05	< 0.05	ND	40	86	50	140	85	50	140
o,p-DDD	GCM0470-JUL21	µg/g	0.02	< 0.02	ND	40	82	50	140	97	50	140
o,p-DDE	GCM0470-JUL21	µg/g	0.02	< 0.02	ND	40	87	50	140	91	50	140
op-DDT	GCM0470-JUL21	µg/g	0.02	< 0.02	ND	40	81	50	140	74	50	140
pp-DDD	GCM0470-JUL21	µg/g	0.02	< 0.02	ND	40	80	50	140	102	50	140
pp-DDE	GCM0470-JUL21	µg/g	0.02	< 0.02	ND	40	86	50	140	91	50	140
pp-DDT	GCM0470-JUL21	µg/g	0.02	< 0.02	ND	40	87	50	140	79	50	140

QC SUMMARY

Petroleum Hydrocarbons (F1)

Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F1 (C6-C10)	GCM0448-JUL21	µg/g	10	<10	ND	30	96	80	120	97	60	140

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0456-JUL21	µg/g	10	<10	ND	30	97	80	120	97	60	140
F3 (C16-C34)	GCM0456-JUL21	µg/g	50	<50	ND	30	97	80	120	97	60	140
F4 (C34-C50)	GCM0456-JUL21	µg/g	50	<50	ND	30	97	80	120	97	60	140

QC SUMMARY

Volatile Organics

Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-IENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Benzene	GCM0448-JUL21	µg/g	0.02	<0.02	ND	50	84	60	130	86	50	140
Ethylbenzene	GCM0448-JUL21	µg/g	0.05	<0.05	ND	50	78	60	130	84	50	140
m/p-xylene	GCM0448-JUL21	µg/g	0.05	<0.05	ND	50	81	60	130	88	50	140
o-xylene	GCM0448-JUL21	µg/g	0.05	<0.05	ND	50	80	60	130	88	50	140
Toluene	GCM0448-JUL21	µg/g	0.05	<0.05	ND	50	81	60	130	85	50	140

Water Soluble Boron

Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-IENVI SPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Water Soluble Boron	ESG0068-JUL21	µg/g	0.5	<0.5	ND	20	100	80	120	93	70	130

QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act" published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No: 021280 Page _____ of _____

Laboratory Information Section - Lab use only

Received By: CAYLIN GRAHAM
Received Date: 07 23 21 (mm/dd/yy)
Received Time: 14 : 30 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C) 9.9.10
LAB LIMS #: CA14737-Jul21

REPORT INFORMATION

Company: Cambium Inc
Contact: Bernie Taylor
Address: 144 Sophia St, Peterborough
Phone: 705-768-4749
Fax:
Email: Bernie.Taylor@cambium-inc.com

INVOICE INFORMATION

☑ (same as Report Information)
Company:
Contact:
Address:
Phone:
Email:

Quotation #:
P.O. #:
Project #: 12579-002
Site Location/ID:

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)

TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

*NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

☐ O.Reg 153/04 ☐ O.Reg 406/19

☑ Table 1 ☐ Res/Park Soil Texture: ☐ Coarse
☐ Table 2 ☐ Ind/Com ☐ Medium/Fine
☐ Table 3 ☐ Agri/Other
☐ Table ____
Soil Volume ☐ <350m3 ☐ >350m3

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA ☐ ODWS Not Reportable *See note

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☐ YES ☐ NO

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX
1 BH105-0.25	21-07-23	—	3	SOIL
2 BH107-0.3-0.6	"	—	2	"
3 BH106-0.3-0.6	"	—	2	"
4				
5				
6				
7				
8				
9				
10				
11				
12				

	Field Filtered (Y/N)	Metals & Inorganics incl CrVI, CN,Hg pH,(B(HWS),EC,SAR-soil) (Cl, Na-water)	Full Metals Suite ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,	PAHs only	SVOCs all incl PAHs, ABNs, CPs	PCBs ☐ Total ☐ Aroclor	F1-F4 + BTEX	F1-F4 only no BTEX	VOCs all incl BTEX	BTEX only	Pesticides Organochlorine or specify other	Other (please specify)							TCLP	COMMENTS:
		M & I			SVOC		PCB	PHC		VOC		Pest									
												☐					Appendix 2: 406/19 Leachate Screening Levels Table :	Sewer Use: Specify pkg:	Water Characterization Pkg General ☐ Extended ☐	Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	
1			X					X													
2												X									
3																					

Observations/Comments/Special Instructions

Sampled By (NAME): Connor Frazer Signature: Date: 07/23/21 (mm/dd/yy)
Relinquished by (NAME): Connor Frazer Signature: Date: 07/23/21 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.4
Date of Issue: 22 May. 2020

FINAL REPORT

CA15634-JUL21 R

12579-002, 1490 County Rd 28

Prepared for

Cambium Inc.

FINAL REPORT

CA15634-JUL21 R

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	Cambium Inc.	Project Specialist	Brad Moore Hon. B.Sc
		Laboratory	SGS Canada Inc.
Address	194 Sofia Street Peterborough, ON K9H 1E3. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Bernie Taylor	Telephone	705-652-2143
Telephone	705-742-7900 ext 200	Facsimile	705-652-6365
Facsimile	705-742-7907	Email	brad.moore@sgs.com
Email	bernie.taylor@cambium-inc.com; file@cambium-inc.com	SGS Reference	CA15634-JUL21
Project	12579-002, 1490 County Rd 28	Received	07/26/2021
Order Number		Approved	08/03/2021
Samples	Ground Water (1)	Report Number	CA15634-JUL21 R
		Date Reported	08/03/2021

COMMENTS

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

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

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

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

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

Linearity is within 15%: YES

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

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

Temperature of Sample upon Receipt: 19 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:022158

PHC F2 (C10-C16), F3 (C16-C34), F4 (C34-C50) Matrix Spike recovery is outside control limits due to sample heterogeneity.

SIGNATORIES

Brad Moore Hon. B.Sc

TABLE OF CONTENTS

Client: Cambium Inc.
Project: 12579-002, 1490 County Rd 28
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
BTEX				
Benzene	µg/L	0.5	0.5	< 0.5
Ethylbenzene	µg/L	0.5	0.5	< 0.5
Toluene	µg/L	0.5	0.8	< 0.5
Xylene (total)	µg/L	0.5	72	< 0.5
m/p-xylene	µg/L	0.5		< 0.5
o-xylene	µg/L	0.5		< 0.5

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
Hydrides				
Antimony	µg/L	0.9	1.5	< 0.9
Arsenic	µg/L	0.2	13	0.5
Selenium	µg/L	0.04	5	0.82

Client: Cambium Inc.
Project: 12579-002, 1490 County Rd 28
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

Metals and Inorganics

Parameter	Units	RL	L1	Result
Barium	µg/L	0.02	610	195
Beryllium	µg/L	0.007	0.5	< 0.007
Boron	µg/L	2	1700	49
Cadmium	µg/L	0.003	0.5	0.004
Chromium	µg/L	0.08	11	0.40
Cobalt	µg/L	0.004	3.8	0.078
Copper	µg/L	0.2	5	0.8
Lead	µg/L	0.09	1.9	< 0.09
Molybdenum	µg/L	0.04	23	1.84
Nickel	µg/L	0.1	14	0.2
Silver	µg/L	0.05	0.3	< 0.05
Thallium	µg/L	0.005	0.5	0.026
Uranium	µg/L	0.002	8.9	0.607
Vanadium	µg/L	0.01	3.9	0.86
Zinc	µg/L	2	160	2

Client: Cambium Inc.
Project: 12579-002, 1490 County Rd 28
Project Manager: Bernie Taylor
Samplers: Connor Frazer

PACKAGE: **REG153 - Na** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
Na				
Sodium	µg/L	10	490000	5320

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
Other (ORP)				
Mercury (total)	µg/L	0.01	0.1	< 0.01
Chromium VI	µg/L	0.2	25	0.3

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
PHCs				
F1 (C6-C10)	µg/L	25	420	< 25
F1-BTEX (C6-C10)	µg/L	25		< 25
F2 (C10-C16)	µg/L	100	150	< 100
F3 (C16-C34)	µg/L	200	500	< 200
F4 (C34-C50)	µg/L	200	500	< 200
Chromatogram returned to baseline at nC50	Yes / No	-		YES

Client: Cambium Inc.
Project: 12579-002, 1490 County Rd 28
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
THMs (VOC)				
Bromodichloromethane	µg/L	0.5	2	< 0.5
Bromoform	µg/L	0.5	5	< 0.5
Dibromochloromethane	µg/L	0.5	2	< 0.5

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
VOC Surrogates				
Surr 1,2-Dichloroethane-d4	Surr Rec %	-		100
Surr 2-Bromo-1-Chloropropane	Surr Rec %	-		100
Surr 4-Bromofluorobenzene	Surr Rec %	-		95

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
VOCs				
Acetone	µg/L	30	2700	< 30
Bromomethane	µg/L	0.5	0.89	< 0.5
Carbon tetrachloride	µg/L	0.2	0.2	< 0.2
Chlorobenzene	µg/L	0.5	0.5	< 0.5

Client: Cambium Inc.
Project: 12579-002, 1490 County Rd 28
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

VOCs (continued)

Parameter	Units	RL	L1	Result
Chloroform	µg/L	0.5	2	< 0.5
1,2-Dichlorobenzene	µg/L	0.5	0.5	< 0.5
1,3-Dichlorobenzene	µg/L	0.5	0.5	< 0.5
1,4-Dichlorobenzene	µg/L	0.5	0.5	< 0.5
Dichlorodifluoromethane	µg/L	2.0	590	< 2
1,1-Dichloroethane	µg/L	0.5	0.5	< 0.5
1,2-Dichloroethane	µg/L	0.5	0.5	< 0.5
1,1-Dichloroethylene	µg/L	0.5	0.5	< 0.5
trans-1,2-Dichloroethene	µg/L	0.5	1.6	< 0.5
cis-1,2-Dichloroethene	µg/L	0.5	1.6	< 0.5
1,2-Dichloropropane	µg/L	0.5	0.5	< 0.5
cis-1,3-Dichloropropene	µg/L	0.5		< 0.5
trans-1,3-Dichloropropene	µg/L	0.5		< 0.5
1,3-dichloropropene (total)	µg/L	0.5	0.5	< 0.5
Ethylenedibromide	µg/L	0.2	0.2	< 0.2
n-Hexane	µg/L	1.0	5	< 1
Methyl ethyl ketone	µg/L	20	400	< 20
Methyl Isobutyl Ketone	µg/L	20	640	< 20
Methyl-t-butyl Ether	µg/L	2.0	15	< 2
Methylene Chloride	µg/L	0.5	5	< 0.5
Styrene	µg/L	0.5	0.5	< 0.5
Tetrachloroethylene	µg/L	0.5	0.5	< 0.5
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	< 0.5

Client: Cambium Inc.
Project: 12579-002, 1490 County Rd 28
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH108
Sample Matrix	Ground Water
Sample Date	26/07/2021

VOCs (continued)

Parameter	Units	RL	L1	Result
1,1,2,2-Tetrachloroethane	µg/L	0.5	0.5	< 0.5
1,1,1-Trichloroethane	µg/L	0.5	0.5	< 0.5
1,1,2-Trichloroethane	µg/L	0.5	0.5	< 0.5
Trichloroethylene	µg/L	0.5	0.5	< 0.5
Trichlorofluoromethane	µg/L	5.0	150	< 5
Vinyl Chloride	µg/L	0.2	0.5	< 0.2

EXCEEDANCE SUMMARY

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

QC SUMMARY

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chromium VI	SKA0266-JUL21	ug/L	0.2	<0.2	ND	20	103	80	120	93	75	125

Mercury by CVAAS

Method: SM 3112/SM 3112B | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Mercury (total)	EHG0029-JUL21	ug/L	0.01	< 0.01	ND	20	117	80	120	114	70	130

QC SUMMARY

Metals in aqueous samples - ICP-MS

Method: SM 3030/EPA 200.8 | Internal ref.: ME-CA-IENVISPE-LAK-AN-006

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Silver	EMS0163-JUL21	ug/L	0.05	<0.05	ND	20	105	90	110	100	70	130
Arsenic	EMS0163-JUL21	µg/L	0.2	<0.2	ND	20	102	90	110	100	70	130
Barium	EMS0163-JUL21	µg/L	0.02	<0.02	ND	20	101	90	110	101	70	130
Beryllium	EMS0163-JUL21	µg/L	0.007	<0.07	ND	20	92	90	110	87	70	130
Cadmium	EMS0163-JUL21	µg/L	0.003	<0.003	ND	20	104	90	110	105	70	130
Cobalt	EMS0163-JUL21	µg/L	0.004	<0.004	ND	20	101	90	110	101	70	130
Chromium	EMS0163-JUL21	ug/L	0.08	<0.08	ND	20	99	90	110	97	70	130
Copper	EMS0163-JUL21	ug/L	0.2	<0.2	17	20	99	90	110	104	70	130
Molybdenum	EMS0163-JUL21	ug/L	0.04	<0.04	ND	20	101	90	110	104	70	130
Sodium	EMS0163-JUL21	ug/L	10	<0.01	ND	20	90	90	110	99	70	130
Nickel	EMS0163-JUL21	µg/L	0.1	<0.1	ND	20	97	90	110	99	70	130
Lead	EMS0163-JUL21	ug/L	0.09	<0.01	ND	20	99	90	110	101	70	130
Antimony	EMS0163-JUL21	ug/L	0.9	<0.9	ND	20	105	90	110	109	70	130
Selenium	EMS0163-JUL21	µg/L	0.04	<0.04	ND	20	101	90	110	112	70	130
Thallium	EMS0163-JUL21	µg/L	0.005	<0.005	ND	20	99	90	110	102	70	130
Uranium	EMS0163-JUL21	µg/L	0.002	<0.002	ND	20	91	90	110	96	70	130
Vanadium	EMS0163-JUL21	µg/L	0.01	0.001	ND	20	99	90	110	105	70	130
Zinc	EMS0163-JUL21	µg/L	2	0.009	ND	20	103	90	110	116	70	130
Boron	EMS0177-JUL21	µg/L	2	<2	11	20	106	90	110	97	70	130

QC SUMMARY

Petroleum Hydrocarbons (F1)

Method: CCME Tier 1 I Internal ref.: ME-CA-[ENV]GC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F1 (C6-C10)	GCM0520-JUL21	µg/L	25	<25	ND	30	96	60	140	77	60	140

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 I Internal ref.: ME-CA-[ENV]GC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0481-JUL21	µg/L	100	<100	ND	30	84	60	140	53	60	140
F3 (C16-C34)	GCM0481-JUL21	µg/L	200	<200	ND	30	84	60	140	53	60	140
F4 (C34-C50)	GCM0481-JUL21	µg/L	200	<200	ND	30	84	60	140	53	60	140

QC SUMMARY

Volatile Organics

Method: EPA 5030B/8260C | Internal ref.: ME-CA-[ENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
1,1,1,2-Tetrachloroethane	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	97	60	130	99	50	140
1,1,1-Trichloroethane	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	93	60	130	96	50	140
1,1,2,2-Tetrachloroethane	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	97	60	130	99	50	140
1,1,2-Trichloroethane	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	103	60	130	100	50	140
1,1-Dichloroethane	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	94	60	130	96	50	140
1,1-Dichloroethylene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	93	60	130	95	50	140
1,2-Dichlorobenzene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	96	60	130	99	50	140
1,2-Dichloroethane	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	97	60	130	100	50	140
1,2-Dichloropropane	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	96	60	130	98	50	140
1,3-Dichlorobenzene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	95	60	130	98	50	140
1,4-Dichlorobenzene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	96	60	130	99	50	140
Acetone	GCM0489-JUL21	ug/L	30	<30	ND	30	94	60	130	93	50	140
Benzene	GCM0489-JUL21	µg/L	0.5	<0.5	ND	30	95	60	130	98	50	140
Bromodichloromethane	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	100	60	130	100	50	140
Bromoform	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	100	60	130	100	50	140
Bromomethane	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	99	50	140	102	50	140
Carbon tetrachloride	GCM0489-JUL21	ug/L	0.2	<0.2	ND	30	96	60	130	98	50	140
Chlorobenzene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	95	60	130	97	50	140
Chloroform	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	97	60	130	97	50	140
cis-1,2-Dichloroethene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	96	60	130	96	50	140

QC SUMMARY

Volatile Organics (continued)

Method: EPA 5030B/8260C | Internal ref.: ME-CA-[ENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
cis-1,3-Dichloropropene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	100	60	130	100	50	140
Dibromochloromethane	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	99	60	130	101	50	140
Dichlorodifluoromethane	GCM0489-JUL21	ug/L	2.0	<2	ND	30	74	50	140	73	50	140
Ethylbenzene	GCM0489-JUL21	µg/L	0.5	<0.5	ND	30	93	60	130	97	50	140
Ethylenedibromide	GCM0489-JUL21	ug/L	0.2	<0.2	ND	30	102	60	130	100	50	140
n-Hexane	GCM0489-JUL21	ug/L	1.0	<1	ND	30	83	60	130	84	50	140
m/p-xylene	GCM0489-JUL21	µg/L	0.5	<0.5	ND	30	93	60	130	96	50	140
Methyl ethyl ketone	GCM0489-JUL21	ug/L	20	<20	ND	30	101	60	130	97	50	140
Methyl Isobutyl Ketone	GCM0489-JUL21	ug/L	20	<20	ND	30	96	50	140	91	50	140
Methyl-t-butyl Ether	GCM0489-JUL21	ug/L	2.0	<2	ND	30	105	60	130	100	50	140
Methylene Chloride	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	96	60	130	97	50	140
o-xylene	GCM0489-JUL21	µg/L	0.5	<0.5	ND	30	93	60	130	97	50	140
Styrene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	95	60	130	98	50	140
Tetrachloroethylene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	95	60	130	98	50	140
Toluene	GCM0489-JUL21	µg/L	0.5	<0.5	ND	30	94	60	130	97	50	140
trans-1,2-Dichloroethene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	93	60	130	96	50	140
trans-1,3-Dichloropropene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	97	60	130	98	50	140
Trichloroethylene	GCM0489-JUL21	ug/L	0.5	<0.5	ND	30	95	60	130	98	50	140
Trichlorofluoromethane	GCM0489-JUL21	ug/L	5.0	<5	ND	30	88	50	140	90	50	140
Vinyl Chloride	GCM0489-JUL21	ug/L	0.2	<0.2	ND	30	87	60	130	88	50	140

QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.
Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.
LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate laboratory accuracy with sample matrix effects.
Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.
RL: Reporting limit
RPD: Relative percent difference
AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.
Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.
Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No: 022158 Page _____ of _____

Laboratory Information Section - Lab use only

Received By: Nattasha m. Received By (signature): Nattasha m.
Received Date: 07/26/21 (mm/dd/yy) Custody Seal Present: Yes ☑ No ☐ Cooling Agent Present: Yes ☑ No ☐ Type: ice
Received Time: 15:35 (hr : min) Custody Seal Intact: Yes ☑ No ☐ Temperature Upon Receipt (°C) 18.20.19 LAB LIMS #: CA15634-JUL21

REPORT INFORMATION	INVOICE INFORMATION
Company: Cambium Inc	☑ (same as Report Information)
Contact: Bernie Taylor	Company:
Address: 194 Sophia St Peterborough	Contact:
Phone: 705-768-4749	Address:
Fax: —	Phone:
Email: bernie.taylor@cambium-inc.com	Email:

Quotation #: Project #: 12579-002 P.O. #: Site Location/ID: 4740 County Rd 28

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days) TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐1 Day ☐2 Days ☐3 Days ☐4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date: _____ *NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

☐ O.Reg 153/04 ☐ O.Reg 406/19
☒ Table 1 ☐ Res/Park Soil Texture: ☐ Coarse
☐ Table 2 ☐ Ind/Com ☐ Medium/Fine
☐ Table 3 ☐ Agri/Other
☐ Table _____
Soil Volume ☐ <350m3 ☐ >350m3

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA _____ ☐ ODWS Not Reportable *See note

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality: _____

RECORD OF SITE CONDITION (RSC) ☐YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	M&I: Metals & Inorganics (incl CrVI, CN, Hg pH,(EHWS),EC(,SAR-soil) (Cl, Na-water)	M&I: Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	M&I: ICP Metals only Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,	SVOC: PAHs only	SVOC: SVOCs all incl PAHs, ABNs, CPs	PCB: PCBs ☐ Total ☐ Aroclor	PHC: F1-F4 + BTEX	PHC: F1-F4 only no BTEX	VOC: VOCs all incl BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other (please specify)	Other	Other	Other	Other: Appendix 2: 406/19 Leachate Screening Levels Table :	Other: Sewer Use: Specify pkg:	Other: Water Characterization Pkg General ☐ Extended	TCLP: Specify TCLP tests ☐M&I ☐VOC ☐PCB ☐B(a)P ☐ABN ☐Ignit.	COMMENTS:
1	BH108	21-07-26	—	8	GW	Y	X						X				X								*Hold Pesticides Sample
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Observations/Comments/Special Instructions

Sampled By (NAME): Connor Frazer **Signature:** Date: 07/26/21 (mm/dd/yy) Pink Copy - Client

Relinquished by (NAME): Connor Frazer **Signature:** Date: 07/26/21 (mm/dd/yy) Yellow & White Copy - SGS

Revision #: 1.4
Date of Issue: 22 May. 2020

FINAL REPORT

CA15428-JUL21 R

12579-002

Prepared for

Cambium Inc.

FINAL REPORT

CA15428-JUL21 R

First Page

CLIENT DETAILS

Client	Cambium Inc.
Address	194 Sofia Street Peterborough, ON K9H 1E3. Canada
Contact	Bernie Taylor
Telephone	705-742-7900 ext 200
Facsimile	705-742-7907
Email	bernie.taylor@cambium-inc.com; file@cambium-inc.com
Project	12579-002
Order Number	
Samples	Soil (1)

LABORATORY DETAILS

Project Specialist	Brad Moore Hon. B.Sc
Laboratory	SGS Canada Inc.
Address	185 Concession St., Lakefield ON, K0L 2H0
Telephone	705-652-2143
Facsimile	705-652-6365
Email	brad.moore@sgs.com
SGS Reference	CA15428-JUL21
Received	07/27/2021
Approved	08/04/2021
Report Number	CA15428-JUL21 R
Date Reported	08/04/2021

COMMENTS

Temperature of Sample upon Receipt: 10 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:022156

SIGNATORIES

Brad Moore Hon. B.Sc

TABLE OF CONTENTS

Client: Cambium Inc.
Project: 12579-002
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

Sample Number	8
Sample Name	BH204_0.7-1.3
Sample Matrix	Soil
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
Hydrides				
Antimony	µg/g	0.8	1.3	< 0.8
Arsenic	µg/g	0.5	18	1.5
Selenium	µg/g	0.7	1.5	< 0.7

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

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

Sample Number	8
Sample Name	BH204_0.7-1.3
Sample Matrix	Soil
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
Metals and Inorganics				
Moisture Content	%	-		5.1
Barium	µg/g	0.1	220	33
Beryllium	µg/g	0.02	2.5	0.23
Boron	µg/g	1	36	4
Cadmium	µg/g	0.02	1.2	0.04
Chromium	µg/g	0.5	70	7.5
Cobalt	µg/g	0.01	21	3.0
Copper	µg/g	0.1	92	5.7
Lead	µg/g	0.1	120	3.0
Molybdenum	µg/g	0.1	2	0.2
Nickel	µg/g	0.5	82	5.4
Silver	µg/g	0.05	0.5	< 0.05

Client: Cambium Inc.
Project: 12579-002
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

Sample Number	8
Sample Name	BH204_0.7-1.3
Sample Matrix	Soil
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
Metals and Inorganics (continued)				
Thallium	µg/g	0.02	1	0.07
Uranium	µg/g	0.002	2.5	0.41
Vanadium	µg/g	3	86	13
Zinc	µg/g	0.7	290	15
Water Soluble Boron	µg/g	0.5		< 0.5

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

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

Sample Number	8
Sample Name	BH204_0.7-1.3
Sample Matrix	Soil
Sample Date	26/07/2021

Parameter	Units	RL	L1	Result
Other (ORP)				
Mercury	ug/g	0.05	0.27	< 0.05
Sodium Adsorption Ratio	No unit	0.2	2.4	< 0.2
SAR Calcium	mg/L	0.2		18.2
SAR Magnesium	mg/L	0.3		0.9
SAR Sodium	mg/L	0.1		2.5
Conductivity	mS/cm	0.002	0.57	0.11
pH	pH Units	0.05		7.93
Chromium VI	µg/g	0.2	0.66	< 0.2
Free Cyanide	µg/g	0.05	0.051	< 0.05

EXCEEDANCE SUMMARY

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

QC SUMMARY

Conductivity

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Conductivity	EWL0471-JUL21	mS/cm	0.002	<0.002	0	10	99	90	110	NA		

Cyanide by SFA

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Free Cyanide	SKA5105-JUL21	µg/g	0.05	<0.05	ND	20	96	80	120	95	75	125

Hexavalent Chromium by SFA

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chromium VI	SKA5122-JUL21	ug/g	0.2	<0.2	ND	20	109	80	120	87	75	125

QC SUMMARY

Mercury by CVAAS

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Mercury	EMS0159-JUL21	ug/g	0.05	<0.05	ND	20	106	80	120	93	70	130

Metals in aqueous samples - ICP-OES

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
SAR Calcium	ESG0079-JUL21	mg/L	0.2	<0.09	3	20	102	80	120	102	70	130
SAR Magnesium	ESG0079-JUL21	mg/L	0.3	<0.02	3	20	102	80	120	103	70	130
SAR Sodium	ESG0079-JUL21	mg/L	0.1	<0.15	0	20	102	80	120	95	70	130

QC SUMMARY

Metals in Soil - Aqua-regia/ICP-MS

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Silver	EMS0159-JUL21	ug/g	0.05	<0.05	9	20	99	70	130	89	70	130
Arsenic	EMS0159-JUL21	µg/g	0.5	<0.5	1	20	102	70	130	89	70	130
Barium	EMS0159-JUL21	ug/g	0.1	<0.1	1	20	108	70	130	90	70	130
Beryllium	EMS0159-JUL21	µg/g	0.02	<0.02	3	20	100	70	130	89	70	130
Boron	EMS0159-JUL21	µg/g	1	<1	1	20	105	70	130	89	70	130
Cadmium	EMS0159-JUL21	µg/g	0.02	<0.02	12	20	102	70	130	91	70	130
Cobalt	EMS0159-JUL21	µg/g	0.01	<0.01	3	20	102	70	130	94	70	130
Chromium	EMS0159-JUL21	µg/g	0.5	<0.5	2	20	104	70	130	94	70	130
Copper	EMS0159-JUL21	µg/g	0.1	<0.1	1	20	100	70	130	90	70	130
Molybdenum	EMS0159-JUL21	µg/g	0.1	<0.1	ND	20	100	70	130	104	70	130
Nickel	EMS0159-JUL21	ug/g	0.5	<0.5	3	20	101	70	130	91	70	130
Lead	EMS0159-JUL21	µg/g	0.1	<0.1	0	20	101	70	130	90	70	130
Antimony	EMS0159-JUL21	µg/g	0.8	<0.8	ND	20	98	70	130	NV	70	130
Selenium	EMS0159-JUL21	µg/g	0.7	<0.7	ND	20	102	70	130	88	70	130
Thallium	EMS0159-JUL21	µg/g	0.02	<0.02	2	20	103	70	130	86	70	130
Uranium	EMS0159-JUL21	µg/g	0.002	<0.002	6	20	99	70	130	87	70	130
Vanadium	EMS0159-JUL21	µg/g	3	<3	4	20	102	70	130	96	70	130
Zinc	EMS0159-JUL21	µg/g	0.7	<0.7	2	20	100	70	130	88	70	130

QC SUMMARY

pH

Method: SM 4500 I Internal ref.: ME-CA-[ENV]EWL-LAK-AN-001

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
pH	ARD0129-JUL21	pH Units	0.05		0	20	100	80	120			

Water Soluble Boron

Method: O.Reg. 15 3/04 I Internal ref.: ME-CA-[ENV] SPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Water Soluble Boron	ESG0076-JUL21	µg/g	0.5	<0.5	ND	20	109	80	120	103	70	130

QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS Insufficient sample for analysis.
RL Reporting Limit.
↑ Reporting limit raised.
↓ Reporting limit lowered.
NA The sample was not analysed for this analyte
ND Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act" published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No: 022156 Page _____ of _____

Laboratory Information Section - Lab use only

Received By: natasham
Received Date: 07/27/21 (mm/dd/yy)
Received Time: 10:55 (hr : min)
Received By (signature): natasham.
Custody Seal Present: Yes ☐ No ☑
Custody Seal Intact: Yes ☐ No ☑
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C) 9.10.11
LAB LIMS #: CA15428-jul21

REPORT INFORMATION	INVOICE INFORMATION
Company: Cambium Inc	☑ (same as Report Information)
Contact: Bernie Taylor	Company:
Address: 144 Sophia Street Peterborough	Contact:
Phone: 705-768-4749	Address:
Fax:	Phone:
Email: bernie.taylor@cambium-inc.com	Email:

Quotation #: _____ P.O. #: _____
Project #: 12579-002 Site Location/ID: _____

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days) TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date: _____

*NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

☐ O.Reg 153/04 ☐ O.Reg 406/19

☑ Table 1 ☐ Res/Park Soil Texture: ☐ Coarse
☐ Table 2 ☐ Ind/Com ☐ Medium/Fine
☐ Table 3 ☐ Agri/Other
☐ Table _____
Soil Volume ☐ <350m3 ☐ >350m3

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: _____ ☐ MISA ☐ ODWS Not Reportable *See note

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality: _____

RECORD OF SITE CONDITION (RSC) ☐ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	M&I: Metals & Inorganics (incl CrVI, CN, Hg pH,(B(HWS),EC,SAR-soil) (Cl, Na-water)	M&I: Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	M&I: ICP Metals only (Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,	SVOC: PAHs only	SVOC: SVOCs all incl PAHs, ABNs, CPs	PCB: PCBs ☐ Total ☐ Aroclor	PHC: F1-F4 + BTEX	PHC: F1-F4 only no BTEX	VOC: VOCs all incl BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other:	Other:	Other:	Other:	Other: Appendix 2: 406/19 Leachate Screening Levels Table: _____	Other: Sewer Use: Specify pkg:	Other: Water Characterization Pkg ☐ General ☐ Extended	TCLP: Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	BH204-0.7-1.3	21-07-26	—	2			X			X															*PAH on hold
2	BH204-6.8-7.4	"	—	3									X		X										*PHC VOC on hold
3	BH202-0.75-1.2	"	—	1				X																	* Full metals on hold
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Observations/Comments/Special Instructions

Sampled By (NAME): Connor Frazer	Signature:	Date: 07/26/21 (mm/dd/yy)	Pink Copy - Client
Relinquished by (NAME): Connor Frazer	Signature:	Date: 07/27/21 (mm/dd/yy)	Yellow & White Copy - SGS

Revision #: 1.4
Date of Issue: 22 May. 2020

FINAL REPORT

CA19686-JUL21 R

12579-001

Prepared for

Cambium Inc.

FINAL REPORT

CA19686-JUL21 R

First Page

CLIENT DETAILS

Client	Cambium Inc.
Address	194 Sofia Street Peterborough, ON K9H 1E3. Canada
Contact	Bernie Taylor
Telephone	705-742-7900 ext 200
Facsimile	705-742-7907
Email	bernie.taylor@cambium-inc.com; file@cambium-inc.com
Project	12579-001
Order Number	
Samples	Soil (2)

LABORATORY DETAILS

Project Specialist	Jill Campbell, B.Sc.,GISAS
Laboratory	SGS Canada Inc.
Address	185 Concession St., Lakefield ON, K0L 2H0
Telephone	2165
Facsimile	705-652-6365
Email	jill.campbell@sgs.com
SGS Reference	CA19686-JUL21
Received	07/29/2021
Approved	08/05/2021
Report Number	CA19686-JUL21 R
Date Reported	08/05/2021

COMMENTS

Temperature of Sample upon Receipt: 4 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:021357

SIGNATORIES

Jill Campbell, B.Sc.,GISAS

TABLE OF CONTENTS

Client: Cambium Inc.
Project: 12579-001
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

				Sample Number	8	9
				Sample Name	BH201_0.3-0.6	BH207_0.75-1.2
				Sample Matrix	Soil	Soil
				Sample Date	27/07/2021	27/07/2021
Parameter	**Units**	**RL**	**L1**		**Result**	**Result**
Metals and Inorganics						
Moisture Content	%	-			18.1	14.1

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

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

				Sample Number	8	9
				Sample Name	BH201_0.3-0.6	BH207_0.75-1.2
				Sample Matrix	Soil	Soil
				Sample Date	27/07/2021	27/07/2021
Parameter	**Units**	**RL**	**L1**		**Result**	**Result**
Organochlorine Pests (OCs)						
Aldrin	µg/g	0.05	0.05		< 0.05	< 0.05
alpha-Chlordane	µg/g	0.02			< 0.02	< 0.02
gamma-Chlordane	µg/g	0.02			< 0.02	< 0.02
Chlordane (total)	µg/g	0.05	0.05		< 0.05	< 0.05
o,p-DDD	µg/g	0.02			< 0.02	< 0.02
pp-DDD	µg/g	0.02			< 0.02	< 0.02
DDD (total)	µg/g	0.05	0.05		< 0.05	< 0.05
o,p-DDE	µg/g	0.02			< 0.02	< 0.02
pp-DDE	µg/g	0.02			< 0.02	< 0.02
DDE (total)	µg/g	0.05	0.05		< 0.05	< 0.05
op-DDT	µg/g	0.02			< 0.02	< 0.02
pp-DDT	µg/g	0.02			< 0.02	< 0.02
DDT (total)	µg/g	0.05	1.4		< 0.05	< 0.05
Dieldrin	µg/g	0.05	0.05		< 0.05	< 0.05
gamma-BHC	µg/g	0.01	0.01		< 0.01	< 0.01

Client: Cambium Inc.
Project: 12579-001
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

			Sample Number	8	9
			Sample Name	BH201_0.3-0.6	BH207_0.75-1.2
			Sample Matrix	Soil	Soil
			Sample Date	27/07/2021	27/07/2021
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)					
Endosulfan I	µg/g	0.02		< 0.02	< 0.02
Endosulfan II	µg/g	0.02		< 0.02	< 0.02
Endosulfan (total)	µg/g	0.04	0.04	< 0.04	< 0.04
Endrin	µg/g	0.04	0.04	< 0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	< 0.01	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	< 0.01	< 0.01
Hexachlorobutadiene	µg/g	0.01	0.01	< 0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	< 0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	< 0.05	< 0.05

Client: Cambium Inc.
Project: 12579-001
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

			Sample Number	8	9
			Sample Name	BH201_0.3-0.6	BH207_0.75-1.2
			Sample Matrix	Soil	Soil
			Sample Date	27/07/2021	27/07/2021
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
Pesticides Surrogate					
Surr Decachlorobiphenyl	Surr Rec %	-		80	76

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

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

			Sample Number	8	9
			Sample Name	BH201_0.3-0.6	BH207_0.75-1.2
			Sample Matrix	Soil	Soil
			Sample Date	27/07/2021	27/07/2021
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
VOC Surrogates					
Surr TCMX	Surr Rec %	-		77	80

EXCEEDANCE SUMMARY

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

QC SUMMARY

Pesticides

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Aldrin	GCM0010-AUG21	µg/g	0.05	< 0.05	ND	40	89	50	140	66	50	140
alpha-Chlordane	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	86	50	140	63	50	140
Dieldrin	GCM0010-AUG21	µg/g	0.05	< 0.05	ND	40	86	50	140	68	50	140
Endosulfan I	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	91	50	140	69	50	140
Endosulfan II	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	83	50	140	75	50	140
Endrin	GCM0010-AUG21	µg/g	0.04	< 0.04	ND	40	81	50	140	72	50	140
gamma-BHC	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	89	50	140	82	50	140
gamma-Chlordane	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	87	50	140	63	50	140
Heptachlor epoxide	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	86	50	140	65	50	140
Heptachlor	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	83	50	140	68	50	140
Hexachlorobenzene	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	90	50	140	68	50	140
Hexachlorobutadiene	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	86	50	140	70	50	140
Hexachloroethane	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	80	50	140	71	50	140
Methoxychlor	GCM0010-AUG21	µg/g	0.05	< 0.05	ND	40	80	50	140	100	50	140
o,p-DDD	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	84	50	140	63	50	140
o,p-DDE	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	90	50	140	65	50	140
op-DDT	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	82	50	140	73	50	140
pp-DDD	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	78	50	140	61	50	140
pp-DDE	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	90	50	140	64	50	140
pp-DDT	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	78	50	140	78	50	140

QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

-- End of Analytical Report --

SGS Request for Laboratory Services and CHAIN OF CUSTODY

No: 021357

Page _____ of _____

Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

Laboratory Information Section - Lab use only

Received By: Nateshan. Received By (signature): Nateshan.
Received Date: 07/29/21 (mm/dd/yy) Custody Seal Present: Yes ☑ No ☐ Cooling Agent Present: Yes ☑ No ☐ Type: ICE
Received Time: 09:30 (hr:min) Custody Seal Intact: Yes ☑ No ☐ Temperature Upon Receipt (°C) 3.5.4
LAB LIMS #: CA19686-JUL21

REPORT INFORMATION

Company: Cambium Inc
Contact: Bernie Taylor
Address: 194 Sophia Street Peterborough
Phone: 705-768-4749
Fax: —
Email: bernie.taylor@gmail.com

INVOICE INFORMATION

☑ (same as Report Information)
Company:
Contact:
Address:
Phone:
Email:

Quotation #: Project #: 12579-001 P.O. #: Site Location/ID:

TURNAROUND TIME (TAT) REQUIRED

☒ Regular TAT (5-7days) TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐1 Day ☐2 Days ☐3 Days ☐4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

*NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

☐ O.Reg 153/04 ☐ O.Reg 406/19
☑ Table 1 ☐ Res/Park Soil Texture: ☑ Coarse
☐ Table 2 ☐ Ind/Com ☐ Medium/Fine
☐ Table 3 ☐ Agri/Other
☐ Table _____
Soil Volume ☐ <350m3 ☐ >350m3

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA ☐ ODWS Not Reportable *See note

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☐ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX
1	BH201-0.3-0.6	07-27-21	—	2	Soil
2	BH207-0.75-1.2	07-27-21	—	2	Soil
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

	Field Filtered (Y/N)	Metals & Inorganics incl CrVI, CN, Hg pH,(B(HWS),EC,SAR-soil) (Cl, Na-water)	Full Metals Suite ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,	PAHs only	SVOCs all incl PAHs, ABNs, CPs	PCBs ☐ Total ☐ Aroclor	F1-F4 + BTEX	F1-F4 only no BTEX	VOCs all incl BTEX	BTEX only	Pesticides Organochlorine or specify other	Other (please specify)				Appendix 2: 406/19 Leachate Screening Levels Table :	Sewer Use: Specify pkg:	Water Characterization Pkg General ☐ Extended ☐	TCLP Specify TCLP tests	COMMENTS:
1												X								
2					X							X								#PAH's on hold
3																				
4																				
5																				Please send EDD Files
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Observations/Comments/Special Instructions

Sampled By (NAME): Connor Frazer Signature: Date: 07/27/21 (mm/dd/yy)
Relinquished by (NAME): Connor Frazer Signature: Date: 07/28/21 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.4
Date of Issue: 22 May. 2020

Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. {2} Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). {3} Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

FINAL REPORT

CA19685-JUL21 R1

12579-001

Prepared for

Cambium Inc.

FINAL REPORT

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	Cambium Inc.	Project Specialist	Maarit Wolfe, Hon.B.Sc
		Laboratory	SGS Canada Inc.
Address	194 Sofia Street Peterborough, ON K9H 1E3. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Bernie Taylor	Telephone	705-652-2000
Telephone	705-742-7900 ext 200	Facsimile	705-652-6365
Facsimile	705-742-7907	Email	Maarit.Wolfe@sgs.com
Email	bernie.taylor@cambium-inc.com; file@cambium-inc.com	SGS Reference	CA19685-JUL21
Project	12579-001	Received	07/29/2021
Order Number		Approved	08/06/2021
Samples	Soil (2)	Report Number	CA19685-JUL21 R1
		Date Reported	08/06/2021

COMMENTS

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

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

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

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

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

Linearity is within 15%: YES

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

Hydrocarbon results are expressed on a dry weight basis.

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

Temperature of Sample upon Receipt: 4 degrees C
Cooling Agent Present: Yes
Custody Seal Present: Yes

Chain of Custody Number: 021356

SIGNATORIES

Maarit Wolfe, Hon.B.Sc

TABLE OF CONTENTS

Client: Cambium Inc.
Project: 12579-001
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

Sample Number	8
Sample Name	BH205_0.75-1.2
Sample Matrix	Soil
Sample Date	28/07/2021

Parameter	Units	RL	L1	Result
Hydrides				
Antimony	µg/g	0.8	1.3	< 0.8
Arsenic	µg/g	0.5	18	0.8
Selenium	µg/g	0.7	1.5	< 0.7

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

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

Sample Number	8	9
Sample Name	BH205_0.75-1.2	BH206_0.3-0.6
Sample Matrix	Soil	Soil
Sample Date	28/07/2021	28/07/2021

Parameter	Units	RL	L1	Result	Result
Metals and Inorganics					
Moisture Content	%	-		7.3	23.1
Barium	µg/g	0.1	220	20	
Beryllium	µg/g	0.02	2.5	0.22	
Boron	µg/g	1	36	< 1	
Cadmium	µg/g	0.02	1.2	0.03	
Chromium	µg/g	0.5	70	16	
Cobalt	µg/g	0.01	21	4.5	
Copper	µg/g	0.1	92	21	
Lead	µg/g	0.1	120	5.8	
Molybdenum	µg/g	0.1	2	0.4	
Nickel	µg/g	0.5	82	10.0	
Silver	µg/g	0.05	0.5	< 0.05	
Thallium	µg/g	0.02	1	0.05	
Uranium	µg/g	0.002	2.5	2.6	

Client: Cambium Inc.
Project: 12579-001
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

			Sample Number	8	9
			Sample Name	BH205_0.75-1.2	BH206_0.3-0.6
			Sample Matrix	Soil	Soil
			Sample Date	28/07/2021	28/07/2021
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
Metals and Inorganics (continued)					
Vanadium	µg/g	3	86	21	
Zinc	µg/g	0.7	290	19	
Water Soluble Boron	µg/g	0.5		< 0.5	

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

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

			Sample Number	9	
			Sample Name	BH206_0.3-0.6	
			Sample Matrix	Soil	
			Sample Date	28/07/2021	
Parameter	**Units**	**RL**	**L1**	**Result**	
Organochlorine Pests (OCs)					
Aldrin	µg/g	0.05	0.05	< 0.05	
alpha-Chlordane	µg/g	0.02		< 0.02	
gamma-Chlordane	µg/g	0.02		< 0.02	
Chlordane (total)	µg/g	0.05	0.05	< 0.05	
o,p-DDD	µg/g	0.02		< 0.02	
pp-DDD	µg/g	0.02		< 0.02	
DDD (total)	µg/g	0.05	0.05	< 0.05	
o,p-DDE	µg/g	0.02		< 0.02	
pp-DDE	µg/g	0.02		< 0.02	
DDE (total)	µg/g	0.05	0.05	< 0.05	
op-DDT	µg/g	0.02		< 0.02	
pp-DDT	µg/g	0.02		< 0.02	
DDT (total)	µg/g	0.05	1.4	< 0.05	

Client: Cambium Inc.
Project: 12579-001
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

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

Sample Number	9
Sample Name	BH206_0.3-0.6
Sample Matrix	Soil
Sample Date	28/07/2021

Organochlorine Pests (OCs) (continued)

Parameter	Units	RL	L1	Result
Dieldrin	µg/g	0.05	0.05	< 0.05
gamma-BHC	µg/g	0.01	0.01	< 0.01
Endosulfan I	µg/g	0.02		< 0.02
Endosulfan II	µg/g	0.02		< 0.02
Endosulfan (total)	µg/g	0.04	0.04	< 0.04
Endrin	µg/g	0.04	0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	< 0.01
Hexachlorobutadiene	µg/g	0.01	0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	< 0.05

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

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

Sample Number	8
Sample Name	BH205_0.75-1.2
Sample Matrix	Soil
Sample Date	28/07/2021

Parameter	Units	RL	L1	Result
Other (ORP)				
Mercury	ug/g	0.05	0.27	< 0.05
Chromium VI	µg/g	0.2	0.66	< 0.2

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

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

Sample Number	9
Sample Name	BH206_0.3-0.6
Sample Matrix	Soil
Sample Date	28/07/2021

Parameter	Units	RL	L1	Result
Pesticides Surrogate				
Surr Decachlorobiphenyl	Surr Rec %	-		76

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

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

Sample Number	9
Sample Name	BH206_0.3-0.6
Sample Matrix	Soil
Sample Date	28/07/2021

Parameter	Units	RL	L1	Result
VOC Surrogates				
Surr TCMX	Surr Rec %	-		85

EXCEEDANCE SUMMARY

Parameter	Method	Units	Result	REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED L1
BH205_0.75-1.2				
Uranium	EPA 3050/EPA 200.8	µg/g	2.6	2.5

QC SUMMARY

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chromium VI	SKA5006-AUG21	ug/g	0.2	<0.2	ND	20	94	80	120	83	75	125

Mercury by CVAAS

Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Mercury	EMS0171-JUL21	ug/g	0.05	<0.05	8	20	104	80	120	92	70	130

QC SUMMARY

Metals in Soil - Aqua-regia/ICP-MS

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Silver	EMS0171-JUL21	ug/g	0.05	<0.05	ND	20	100	70	130	94	70	130
Arsenic	EMS0171-JUL21	µg/g	0.5	<0.5	1	20	104	70	130	94	70	130
Barium	EMS0171-JUL21	ug/g	0.1	<0.1	2	20	105	70	130	92	70	130
Beryllium	EMS0171-JUL21	µg/g	0.02	<0.02	1	20	99	70	130	92	70	130
Boron	EMS0171-JUL21	µg/g	1	<1	9	20	103	70	130	90	70	130
Cadmium	EMS0171-JUL21	µg/g	0.02	<0.02	6	20	102	70	130	92	70	130
Cobalt	EMS0171-JUL21	µg/g	0.01	<0.01	1	20	103	70	130	97	70	130
Chromium	EMS0171-JUL21	µg/g	0.5	<0.5	3	20	104	70	130	97	70	130
Copper	EMS0171-JUL21	µg/g	0.1	<0.1	1	20	103	70	130	93	70	130
Molybdenum	EMS0171-JUL21	µg/g	0.1	<0.1	3	20	92	70	130	93	70	130
Nickel	EMS0171-JUL21	ug/g	0.5	<0.5	1	20	103	70	130	97	70	130
Lead	EMS0171-JUL21	µg/g	0.1	<0.1	14	20	105	70	130	95	70	130
Antimony	EMS0171-JUL21	µg/g	0.8	<0.8	ND	20	100	70	130	84	70	130
Selenium	EMS0171-JUL21	µg/g	0.7	<0.7	ND	20	103	70	130	92	70	130
Thallium	EMS0171-JUL21	µg/g	0.02	<0.02	ND	20	106	70	130	90	70	130
Uranium	EMS0171-JUL21	µg/g	0.002	<0.002	3	20	105	70	130	119	70	130
Vanadium	EMS0171-JUL21	µg/g	3	<3	1	20	103	70	130	99	70	130
Zinc	EMS0171-JUL21	µg/g	0.7	<0.7	0	20	102	70	130	92	70	130

QC SUMMARY

Pesticides

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

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Aldrin	GCM0010-AUG21	µg/g	0.05	< 0.05	ND	40	89	50	140	66	50	140
alpha-Chlordane	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	86	50	140	63	50	140
Dieldrin	GCM0010-AUG21	µg/g	0.05	< 0.05	ND	40	86	50	140	68	50	140
Endosulfan I	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	91	50	140	69	50	140
Endosulfan II	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	83	50	140	75	50	140
Endrin	GCM0010-AUG21	µg/g	0.04	< 0.04	ND	40	81	50	140	72	50	140
gamma-BHC	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	89	50	140	82	50	140
gamma-Chlordane	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	87	50	140	63	50	140
Heptachlor epoxide	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	86	50	140	65	50	140
Heptachlor	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	83	50	140	68	50	140
Hexachlorobenzene	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	90	50	140	68	50	140
Hexachlorobutadiene	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	86	50	140	70	50	140
Hexachloroethane	GCM0010-AUG21	µg/g	0.01	< 0.01	ND	40	80	50	140	71	50	140
Methoxychlor	GCM0010-AUG21	µg/g	0.05	< 0.05	ND	40	80	50	140	100	50	140
o,p-DDD	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	84	50	140	63	50	140
o,p-DDE	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	90	50	140	65	50	140
op-DDT	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	82	50	140	73	50	140
pp-DDD	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	78	50	140	61	50	140
pp-DDE	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	90	50	140	64	50	140
pp-DDT	GCM0010-AUG21	µg/g	0.02	< 0.02	ND	40	78	50	140	78	50	140

QC SUMMARY

Water Soluble Boron

Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-[ENV] SPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Water Soluble Boron	ESG0082-JUL21	µg/g	0.5	<0.5	ND	20	100	80	120	103	70	130

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No: 021356 Page _____ of _____

Laboratory Information Section - Lab use only

Received By: Natasha M. | Received By (signature): Natasha M.
Received Date: 07/29/21 (mm/dd/yy) | Custody Seal Present: Yes ☑ No ☐ | Cooling Agent Present: Yes ☑ No ☐ Type: Ice
Received Time: 09:30 (hr:min) | Custody Seal Intact: Yes ☑ No ☐ | Temperature Upon Receipt (°C) 3.5.4 | LAB LIMS #: CA19685-JUL21

REPORT INFORMATION	INVOICE INFORMATION
Company: Cambium Inc	☑ (same as Report Information)
Contact: Bernie Taylor	Company:
Address: 684 144 Sophia Street, Peterborough	Contact:
Phone: 705-768-1749	Address:
Fax:	Phone:
Email: bernie.taylor@cambium-inc.com	Email:

Quotation #: | P.O. #:
Project #: 12579-001 | Site Location/ID:

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days) — TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐1 Day ☐2 Days ☐3 Days ☐4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date: | ***NOTE:** DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

☐ O.Reg 153/04 ☐ O.Reg 406/19

☑ Table 1 ☑ Res/Park Soil Texture: ☑ Coarse
☐ Table 2 ☐ Ind/Com ☐ Medium/Fine
☐ Table 3 ☐ Agri/Other
☐ Table _____
Soil Volume ☐ <350m3 ☐ >350m3

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA ☐ ODWS Not Reportable *See note

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☐ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	M&I: Metals & Inorganics (incl CrVI, Hg pH,B(HWS),EC,SAR–soil) (Cl, No-water)	M&I: Full Metals Suite ICP metals plus B(HWS-soil only) Hg, CrVI	M&I: ICP Metals only Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,	SVOC: PAHs only	SVOC: SVOCs all incl PAHs, ABNs, CPs	PCB: PCBs ☐ Total ☐ Aroclor	PHC: F1-F4 + BTEX	PHC: F1-F4 only no BTEX	VOC: VOCs all incl BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other: ☐	Other: ☐	Other: ☐	Other: ☐	Other: Appendix 2: 406/19 Leachate Screening Levels Table :	Other: Sewer Use: Specify pkg:	Other: Water Characterization Pkg General ☐ Extended ☐	TCLP: Specify TCLP tests ☐M&I ☐VOC ☐PCB ☐B(a)P ☐ABN ☐Ignit.	COMMENTS:
1	BH205-0.75-1.2	21-07-28	-	1	Soil		~~X~~	X																	Full metals
2	BH206-0.3-0.6	21-07-28	-	1	Soil												X								
3																									
4																									Please send
5																									EDD Files
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Observations/Comments/Special Instructions

Sampled By (NAME): Connor Frazer | Signature: | Date: 21/28/21 (mm/dd/yy) | Pink Copy - Client
Relinquished by (NAME): Connor Frazer | Signature: | Date: 21/27/21 (mm/dd/yy) | Yellow & White Copy - SGS

Revision #: 1.4
Date of Issue: 22 May. 2020

FINAL REPORT

CA15014-AUG21 R

12579-002

Prepared for

Cambium Inc.

FINAL REPORT

CA15014-AUG21 R

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	Cambium Inc.	Project Specialist	Brad Moore Hon. B.Sc
		Laboratory	SGS Canada Inc.
Address	194 Sofia Street Peterborough, ON K9H 1E3. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Bernie Taylor	Telephone	705-652-2143
Telephone	705-742-7900 ext 200	Facsimile	705-652-6365
Facsimile	705-742-7907	Email	brad.moore@sgs.com
Email	bernie.taylor@cambium-inc.com; file@cambium-inc.com	SGS Reference	CA15014-AUG21
Project	12579-002	Received	08/04/2021
Order Number		Approved	08/13/2021
Samples	Ground Water (1)	Report Number	CA15014-AUG21 R
		Date Reported	08/13/2021

COMMENTS

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

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

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

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

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

Linearity is within 15%: YES

F4G - gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

The results for F4 and F4G are both reported and the greater of the two values is to be used in application to the CWS PHC.

Temperature of Sample upon Receipt: 12 degrees C

Cooling Agent Present: Yes

Custody Seal Present: Yes

Chain of Custody Number: 025799

SIGNATORIES

Brad Moore Hon. B.Sc

TABLE OF CONTENTS

Client: Cambium Inc.
Project: 12579-002
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

Parameter	Units	RL	L1	Result
BTEX				
Benzene	ug/L	0.5	0.5	< 0.5
Ethylbenzene	ug/L	0.5	0.5	< 0.5
Toluene	ug/L	0.5	0.8	1.2
Xylene (total)	ug/L	0.5	72	1.0
m/p-xylene	ug/L	0.5		0.7
o-xylene	ug/L	0.5		< 0.5

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

Parameter	Units	RL	L1	Result
Hydrides				
Antimony	µg/L	0.9	1.5	< 0.9
Arsenic	µg/L	0.2	13	0.6
Selenium	µg/L	0.04	5	0.27

Client: Cambium Inc.
Project: 12579-002
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

Metals and Inorganics

Parameter	Units	RL	L1	Result
Barium	µg/L	0.02	610	61.6
Beryllium	µg/L	0.007	0.5	< 0.007
Boron	µg/L	2	1700	101
Cadmium	µg/L	0.003	0.5	0.003
Chromium	µg/L	0.08	11	0.12
Cobalt	µg/L	0.004	3.8	0.559
Copper	µg/L	0.2	5	2.5
Lead	µg/L	0.09	1.9	0.10
Molybdenum	µg/L	0.04	23	5.74
Nickel	µg/L	0.1	14	2.1
Silver	µg/L	0.05	0.3	< 0.05
Thallium	µg/L	0.005	0.5	0.009
Uranium	µg/L	0.002	8.9	2.79
Vanadium	µg/L	0.01	3.9	0.64
Zinc	µg/L	2	160	6

Client: Cambium Inc.
Project: 12579-002
Project Manager: Bernie Taylor
Samplers: Connor Frazer

PACKAGE: **REG153 - Na** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

Parameter	Units	RL	L1	Result
Na				
Sodium	µg/L	10	490000	26500

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

Parameter	Units	RL	L1	Result
Other (ORP)				
Mercury (total)	µg/L	0.01	0.1	< 0.01
Chromium VI	µg/L	0.2	25	< 0.2

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

Parameter	Units	RL	L1	Result
PHCs				
F2 (C10-C16)	µg/L	100	150	< 100
F3 (C16-C34)	µg/L	200	500	< 200
F4 (C34-C50)	µg/L	200	500	< 200
Chromatogram returned to baseline at nC50	Yes / No	-		YES

Client: Cambium Inc.
Project: 12579-002
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

Parameter	Units	RL	L1	Result
THMs (VOC)				
Bromodichloromethane	µg/L	0.5	2	< 0.5
Bromoform	µg/L	0.5	5	< 0.5
Dibromochloromethane	µg/L	0.5	2	< 0.5

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

Parameter	Units	RL	L1	Result
VOC Surrogates				
Surr 1,2-Dichloroethane-d4	Surr Rec %	-		100
Surr 2-Bromo-1-Chloropropane	Surr Rec %	-		100
Surr 4-Bromofluorobenzene	Surr Rec %	-		93

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

Parameter	Units	RL	L1	Result
VOCs				
Acetone	µg/L	30	2700	< 30
Bromomethane	µg/L	0.5	0.89	< 0.5
Carbon tetrachloride	µg/L	0.2	0.2	< 0.2
Chlorobenzene	µg/L	0.5	0.5	< 0.5

Client: Cambium Inc.
Project: 12579-002
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

VOCs (continued)

Parameter	Units	RL	L1	Result
Chloroform	µg/L	0.5	2	< 0.5
1,2-Dichlorobenzene	µg/L	0.5	0.5	< 0.5
1,3-Dichlorobenzene	µg/L	0.5	0.5	< 0.5
1,4-Dichlorobenzene	µg/L	0.5	0.5	< 0.5
Dichlorodifluoromethane	µg/L	2.0	590	< 2
1,1-Dichloroethane	µg/L	0.5	0.5	< 0.5
1,2-Dichloroethane	µg/L	0.5	0.5	< 0.5
1,1-Dichloroethylene	µg/L	0.5	0.5	< 0.5
trans-1,2-Dichloroethene	µg/L	0.5	1.6	< 0.5
cis-1,2-Dichloroethene	µg/L	0.5	1.6	< 0.5
1,2-Dichloropropane	µg/L	0.5	0.5	< 0.5
cis-1,3-Dichloropropene	µg/L	0.5		< 0.5
trans-1,3-Dichloropropene	µg/L	0.5		< 0.5
1,3-dichloropropene (total)	µg/L	0.5	0.5	< 0.5
Ethylenedibromide	µg/L	0.2	0.2	< 0.2
n-Hexane	µg/L	1.0	5	< 1
Methyl ethyl ketone	µg/L	20	400	< 20
Methyl Isobutyl Ketone	µg/L	20	640	< 20
Methyl-t-butyl Ether	µg/L	2.0	15	< 2
Methylene Chloride	µg/L	0.5	5	< 0.5
Styrene	µg/L	0.5	0.5	< 0.5
Tetrachloroethylene	µg/L	0.5	0.5	< 0.5
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	< 0.5

Client: Cambium Inc.
Project: 12579-002
Project Manager: Bernie Taylor
Samplers: Connor Frazer

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

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

Sample Number	7
Sample Name	BH204
Sample Matrix	Ground Water
Sample Date	04/08/2021

VOCs (continued)

Parameter	Units	RL	L1	Result
1,1,2,2-Tetrachloroethane	µg/L	0.5	0.5	< 0.5
1,1,1-Trichloroethane	µg/L	0.5	0.5	< 0.5
1,1,2-Trichloroethane	µg/L	0.5	0.5	< 0.5
Trichloroethylene	µg/L	0.5	0.5	< 0.5
Trichlorofluoromethane	µg/L	5.0	150	< 5
Vinyl Chloride	µg/L	0.2	0.5	< 0.2

EXCEEDANCE SUMMARY

Parameter	Method	Units	Result	REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED L1
BH204				
Toluene	EPA 5030B/8260C	µg/L	1.2	0.8

QC SUMMARY

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chromium VI	SKA0044-AUG21	ug/L	0.2	<0.2	6	20	99	80	120	NV	75	125

Mercury by CVAAS

Method: SM 3112/SM 3112B | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Mercury (total)	EHG0007-AUG21	ug/L	0.01	< 0.01	ND	20	101	80	120	102	70	130

QC SUMMARY

Metals in aqueous samples - ICP-MS

Method: SM 3030/EPA 200.8 | Internal ref.: ME-CA-IENVISPE-LAK-AN-006

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Silver	EMS0019-AUG21	ug/L	0.05	<0.05	ND	20	101	90	110	94	70	130
Arsenic	EMS0019-AUG21	ug/L	0.2	<0.0002	5	20	100	90	110	95	70	130
Barium	EMS0019-AUG21	ug/L	0.02	<0.00002	6	20	97	90	110	99	70	130
Beryllium	EMS0019-AUG21	ug/L	0.007	<0.07	ND	20	94	90	110	97	70	130
Boron	EMS0019-AUG21	ug/L	2	<2	0	20	101	90	110	98	70	130
Cadmium	EMS0019-AUG21	ug/L	0.003	<0.003	ND	20	99	90	110	101	70	130
Cobalt	EMS0019-AUG21	ug/L	0.004	<0.004	8	20	98	90	110	94	70	130
Chromium	EMS0019-AUG21	ug/L	0.08	<0.08	15	20	98	90	110	98	70	130
Copper	EMS0019-AUG21	ug/L	0.2	<0.2	6	20	97	90	110	92	70	130
Molybdenum	EMS0019-AUG21	ug/L	0.04	<0.04	10	20	98	90	110	98	70	130
Sodium	EMS0019-AUG21	ug/L	10	<0.01	2	20	101	90	110	113	70	130
Nickel	EMS0019-AUG21	ug/L	0.1	<0.1	3	20	95	90	110	94	70	130
Lead	EMS0019-AUG21	ug/L	0.09	<0.01	3	20	98	90	110	113	70	130
Antimony	EMS0019-AUG21	ug/L	0.9	<0.9	ND	20	96	90	110	95	70	130
Selenium	EMS0019-AUG21	ug/L	0.04	<0.04	15	20	101	90	110	100	70	130
Thallium	EMS0019-AUG21	ug/L	0.005	<0.005	ND	20	91	90	110	93	70	130
Uranium	EMS0019-AUG21	ug/L	0.002	<0.002	20	20	101	90	110	102	70	130
Vanadium	EMS0019-AUG21	ug/L	0.01	<0.00001	6	20	99	90	110	102	70	130
Zinc	EMS0019-AUG21	ug/L	2	<0.002	ND	20	98	90	110	114	70	130

QC SUMMARY

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0083-AUG21	µg/L	100	<100	ND	30	95	60	140	106	60	140
F3 (C16-C34)	GCM0083-AUG21	µg/L	200	<200	ND	30	95	60	140	106	60	140
F4 (C34-C50)	GCM0083-AUG21	µg/L	200	<200	ND	30	95	60	140	106	60	140

QC SUMMARY

Volatile Organics

Method: EPA 5030B/8260C | Internal ref.: ME-CA-[ENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
1,1,1,2-Tetrachloroethane	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	102	60	130	107	50	140
1,1,1-Trichloroethane	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	96	60	130	98	50	140
1,1,2,2-Tetrachloroethane	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	99	60	130	109	50	140
1,1,2-Trichloroethane	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	99	60	130	107	50	140
1,1-Dichloroethane	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	97	60	130	96	50	140
1,1-Dichloroethylene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	98	60	130	98	50	140
1,2-Dichlorobenzene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	98	60	130	105	50	140
1,2-Dichloroethane	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	98	60	130	99	50	140
1,2-Dichloropropane	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	99	60	130	97	50	140
1,3-Dichlorobenzene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	100	60	130	104	50	140
1,4-Dichlorobenzene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	99	60	130	104	50	140
Acetone	GCM0105-AUG21	ug/L	30	<30	ND	30	90	60	130	86	50	140
Benzene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	97	60	130	98	50	140
Bromodichloromethane	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	99	60	130	102	50	140
Bromoform	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	99	60	130	105	50	140
Bromomethane	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	108	50	140	109	50	140
Carbon tetrachloride	GCM0105-AUG21	ug/L	0.2	<0.2	ND	30	95	60	130	98	50	140
Chlorobenzene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	102	60	130	105	50	140
Chloroform	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	99	60	130	100	50	140
cis-1,2-Dichloroethene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	97	60	130	96	50	140

QC SUMMARY

Volatile Organics (continued)

Method: EPA 5030B/8260C | Internal ref.: ME-CA-[ENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
cis-1,3-Dichloropropene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	99	60	130	101	50	140
Dibromochloromethane	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	98	60	130	102	50	140
Dichlorodifluoromethane	GCM0105-AUG21	ug/L	2.0	<2	ND	30	111	50	140	106	50	140
Ethylbenzene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	102	60	130	103	50	140
Ethylenedibromide	GCM0105-AUG21	ug/L	0.2	<0.2	ND	30	98	60	130	101	50	140
n-Hexane	GCM0105-AUG21	ug/L	1.0	<1	ND	30	93	60	130	95	50	140
m/p-xylene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	100	60	130	102	50	140
Methyl ethyl ketone	GCM0105-AUG21	ug/L	20	<20	ND	30	89	60	130	90	50	140
Methyl Isobutyl Ketone	GCM0105-AUG21	ug/L	20	<20	ND	30	86	50	140	87	50	140
Methyl-t-butyl Ether	GCM0105-AUG21	ug/L	2.0	<2	ND	30	94	60	130	95	50	140
Methylene Chloride	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	97	60	130	99	50	140
o-xylene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	101	60	130	103	50	140
Styrene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	101	60	130	106	50	140
Tetrachloroethylene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	96	60	130	99	50	140
Toluene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	99	60	130	99	50	140
trans-1,2-Dichloroethene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	99	60	130	96	50	140
trans-1,3-Dichloropropene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	97	60	130	99	50	140
Trichloroethylene	GCM0105-AUG21	ug/L	0.5	<0.5	ND	30	97	60	130	98	50	140
Trichlorofluoromethane	GCM0105-AUG21	ug/L	5.0	<5	ND	30	105	50	140	106	50	140
Vinyl Chloride	GCM0105-AUG21	ug/L	0.2	<0.2	ND	30	105	60	130	103	50	140

QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.
Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.
LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate laboratory accuracy with sample matrix effects.
Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.
RL: Reporting limit
RPD: Relative percent difference
AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.
Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.
Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

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CA15014-Aug21

Laboratory Information Section - Lab use only

Received By: Colin Dawe
Received Date: 08 / 04 / 21 (mm/dd/yy)
Received Time: 11 : 30 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☐ No ☒
Custody Seal Intact: Yes ☐ No ☒
Cooling Agent Present: Yes ☒ No ☐ Type: Ice
Temperature Upon Receipt (°C) 12, 12, 13
LAB LIMS #:

REPORT INFORMATION	INVOICE INFORMATION
Company: Cambium Inc	☒ (same as Report Information)
Contact: Bernie Taylor	Company:
Address: 104 Sophia St, Peterborough	Contact:
Phone: 705-768-4799	Address:
Fax:	Phone:
Email: bernie.taylor@cambium-inc.com; brad.saurdon@cambium-inc.com	Email:

Quotation #: P.O. #:
Project #: 12579-002 Site Location/ID:

TURNAROUND TIME (TAT) REQUIRED

☒ Regular TAT (5-7days)
TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days
PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

*NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

☐ O.Reg 153/04 ☐ O.Reg 406/19
☒ Table 1 ☒ Res/Park Soil Texture: ☒ Coarse
☐ Table 2 ☐ Ind/Com ☐ Medium/Fine
☐ Table 3 ☐ Agri/Other
☐ Table ____ Appx. ____
Soil Volume ☐ <350m3 ☐ >350m3

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA ☐ ODWS Not Reportable *See note

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☐ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	M&I: Metals & Inorganics (incl CrVI, CN, Hg pH,(B(HWS),EC,SAR-soil) (Cl, Na-water))	M&I: Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI)	M&I: ICP Metals only (Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,)	SVOC: PAHs only	SVOC: SVOCs all incl PAHs, ABNs, CPs	PCB: PCBs Total ☐ Aroclor ☐	PHC: F1-F4 + BTEX	PHC: F1-F4 only no BTEX	VOC: VOCs incl. BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other (please specify)	Other	Other	Other	Sewer Use: Specify pkg:	Water Characterization Pkg: General ☐ Extended ☐	SPLP: Specify tests ☐ Metals ☐ VOC ☐ 1,4-Dioxane ☐ OCP ☐ ABN	TCLP: Specify tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	BH204	21-08-04	-	8	GW	Y	X						X		X		X									* Pesticides
2																										on hold
3																										F1-F4 ~~BTEX~~
4																										* VOC
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Observations/Comments/Special Instructions

Sampled By (NAME): Connor Frazer Signature: Date: 08 / 04 / 21 (mm/dd/yy)
Relinquished by (NAME): Connor Frazer Signature: Date: 08 / 04 / 21 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

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Date of Issue: 11 June 2021

Appendix C

Curriculum Vitae

BRAD SAWDON, P.Geo., EP

Project Manager

Mr. Sawdon holds an Honours Bachelors of Environmental Studies degree from the University of Waterloo and is a Project Manager at Cambium. Mr. Sawdon is a licensed Professional Geoscientist (P.Geo.) with the Association of Professional Geoscientists of Ontario and is a Qualified Person (QP_{ESA}) for Environmental Site Assessments under the Environmental Protection Act. Mr. Sawdon is also an Environmental Professional (EP), specializing in Air Quality, with the Canadian Environmental Certification Approvals Board (CECAB). He has 10 years of employment experience in the environmental consulting field, working throughout Ontario, Alberta, British Columbia, Saskatchewan and Northwest Territories.

SUMMARY OF PROFESSIONAL EXPERIENCE

2011 – Present Project Manager. Cambium Inc.
Peterborough, Ontario, Canada

Mr. Sawdon's responsibilities include the coordination and management of projects related to environmental site assessments, soil and groundwater remediations, air quality, source testing, environmental compliance approvals, and designated substance surveys. Mr. Sawdon has extensive experience with proposal and report preparation including data compilation, interpretation, and completion of final reports.

2008 – 2010 Project Manager. O'Connor Associates Environmental Inc.
Calgary, Alberta, Canada

Mr. Sawdon's responsibilities included project management and field component of work related to Phase I, Phase II and Phase III Environmental Site Assessments (ESAs), risk management plans, aquatic pathway assessments, and compliance groundwater monitoring and sampling events. Mr. Sawdon was involved with providing the client with cost estimation for all aspects of a project, supervising field technicians and technical support staff, scheduling of field work, arranging for required sub-contractors, and analyzing and interpreting the field data in order to write the related reports.

PROFESSIONAL ASSOCIATIONS

- Professional Geoscientist (P.Geo.); Association of Professional Geoscientists of Ontario
- Environmental Professional (EP); Canadian Environmental Certification Approvals Board

EDUCATION & TRAINING

Education

2003 Honours Bachelor of Environmental Studies, University of Waterloo, Waterloo, Ontario

SELECTED EXPERIENCE

ENVIRONMENTAL SITE ASSESSMENTS

Mr. Sawdon has completed hundreds of Environmental Site Assessments on Brownfield sites, existing commercial and industrial properties, and vacant lands, proposed for industrial and commercial development. Various assessments include the removal of fuel storage tanks, contaminant delineation and remediation, risk assessment, and filing of Records of Site Condition. Contaminants of concern have included, but are not limited to, petroleum hydrocarbons, chlorinated solvents, volatile and semi-volatile organic compounds, polycyclic aromatic hydrocarbons and metals.

290 WATER STREET ESA – PETERBOROUGH, ONTARIO

Phase I and Phase II ESA, investigated and delineated soil and groundwater contaminants, and facilitated a Risk Assessment, at a site is currently occupied by a commercial printing press operation, and was historically occupied by a canoe manufacturer. The site is also adjacent to a river, a former railway line, and a former coal gasification plant. Due to the varying land uses, a large number of contaminants were of concern at the site. Conducted an extensive drilling program including both shallow aquifer and deep aquifer monitoring wells to assess the light non-aqueous phase liquids and dense non-aqueous phase liquids. Client: The Corporation of the City of Peterborough.

JIFFY LUBE PHASE I AND PHASE II ESA – PETERBOROUGH, ONTARIO

Phase I and Phase II Environmental Site Assessment of a Jiffy Lube service station, adjacent to a laundromat and dry cleaners. Conducted a drilling program including both shallow aquifer and deep aquifer monitoring wells to assess the potential light non-aqueous phase liquids and dense non-aqueous phase liquids. Client: 462455 Ontario Ltd. and Reach Car Wash.

FORMER MURATA ERIE NORTH AMERICA SITE – TRENTON, ONTARIO

Work included a Phase I and Phase II ESA, Risk Assessment, and site remediation. Long-term assessment and remediation of a groundwater plume containing dissolved volatile organic compounds, migrating southeasterly from the Site and extending to the Bay of Quinte. Cambium completed a design and build of an in-situ remediation using pump and treat techniques. Cambium continues to operate the system which has extracted approximately 100 kg of chlorinated solvents since 2007. The remediation is expected to come to completion in 2015. Client: The Corporation of the City of Quinte West

STEVEN ELFORD, B.A. Hons. *Technologist*

Mr. Steven Elford is a Senior Technician with Cambium. Mr. Elford graduated from York University in 2009 with an Honours Bachelor of Arts Degree in Geography and Environmental Studies and received an Advanced Diploma in Ecosystem Management Technology from Sir Sandford Fleming College. Mr. Elford's professional experience includes six years in the environmental consulting industry with a sole focus on petroleum site inspections with extensive experience completing the field portion of Phase I and Phase II ESAs, long-term monitoring and sampling programs, and soil and groundwater remediation. Mr. Elford has completed work in Alberta, Saskatchewan, Manitoba, Ontario and Quebec.

SUMMARY OF PROFESSIONAL EXPERIENCE

2017 – Present Senior Environmental Technician, Cambium Inc.
Peterborough, Ontario, Canada
Mr. Elford's responsibilities include project support, and field work related to environmental site assessments, soil and groundwater remediation, and work at contaminated sites.

2011 – 2017 Environmental Technician, exp Energy Services Ltd.
Markham, Ontario, Canada
Mr. Elford's responsibilities included field work related to Site Remediation, Phase I and Phase II Environmental Site Assessments, and Long-Term Monitoring and Sampling programs. Mr. Elford has worked extensively in the oil and gas sector primarily for Exxon Mobil and Imperial Oil Ltd. Mr. Elford was responsible for carrying out the onsite health and safety program, managing sub-contractors, and the training of new staff and co-operative education students.

EDUCATION & TRAINING

2017	Workplace Hazardous Materials Information System
2016	Standard First Aid Fire Extinguisher Training
2015	Work at Heights Awareness Training Confined Space Awareness Training Transportation of Dangerous Goods Certification Bear Awareness Training Ground Disturbance Training
2014	Engine Repair Level 1 – Durham College
2008	Defensive Driving Training Working in Inclement Weather Training

SELECTED EXPERIENCE

Mr. Elford has completed multiple Phase I and Phase II Environmental Site Assessments on brownfield sites, existing commercial properties, and vacant lands to evaluate environmental liability for clients.

ENVIRONMENTAL SITE ASSESSMENTS –VARIOUS SITES, ONTARIO

Mr. Elford has completed multiple Phase I and Phase II Environmental Site Assessments on brownfield sites, existing and vacated properties. Mr. Elford's role for Phase I assessments generally included a site walkover, personnel interviews and a drinking well survey. He has supervised the detailed subsurface investigations contingent with Phase II assessments including: the excavation of test pits, advancement of overburden and bedrock wells, obtaining overburden soil samples and groundwater samples and soil vapour samples. (2017 & Ongoing)

WASTE DISPOSAL SITE ENVIRONMENTAL MONITORING – VARIOUS LOCATIONS, ONTARIO

Cambium is responsible for solid waste disposal site environmental monitoring, compliance, annual reporting, permitting, and approvals for over forty-eight (48) sites for numerous small to medium-sized municipal and private clients in central and eastern Ontario. As Senior Field Technician, Mr. Elford was responsible for the field scope of services which included coordination with client and laboratories, collection of all required samples and sampling data at each site (groundwater and surface water samples, data pertaining to surface water discharge volumes, landfill gas, and soil samples). (Ongoing)

FORMER MURATA ERIE NORTH AMERICA SITE – CITY OF QUINTE WEST, TRENTON, ONTARIO

Cambium initially developed a remedial options study which reviewed several methods for the remediation of chlorinated hydrocarbons including risk assessment and multiple in-situ and ex-situ technologies. The results guided a design and build of an in-situ groundwater remediation using pump and treat techniques. Cambium continues to operate the system and Mr. Elford has been responsible for site work relating to the maintenance and operations, groundwater sampling of the design-build in-situ groundwater remediation pump and treat system. (Ongoing)

PETERBOROUGH AIRPORT, ENVIRONMENTAL ASSESSMENT – PETERBOROUGH, ONTARIO

Cambium is undertaking a long-term investigation of contaminant impacts, primarily PCBs, at the Peterborough Municipal Airport. Historical information indicates the airport property was used as a landfill for approximately 20 years, and sewage biosolids and lagoon sludge were periodically spread on the site. The ongoing investigation aims to identify and prioritize PCB "hot spots" on the property in order to guide management recommendations and in turn mitigate adverse effects of PCBs on the environment. Mr.

Elford has been responsible for the field work including Surface Water and Sediment Sampling of on-site and off-site surface water bodies and receptors, soil sampling for characterization. (Ongoing)

TRENT VALLEY HONDA IN-SITU REMEDIATION SYSTEM MAINTENANCE - ONGOING

Cambium was responsible for the investigation and the installation of an in-situ remediation system to delineate a petroleum plume. The system is maintained by Cambium and Mr. Elford has been responsible for inspections, maintenance, sampling, data interpretation and reporting of all aspects of the pump and treat systems. (Ongoing)

GE CANADA ENERGY POWER CONVERSION MONITORING AND MAINTENANCE - ONGOING

Cambium is a local consultant contracted by AECOM for GE Energy Power Conversion onsite work to monitor/maintain operations of treatment system for trichloroethylene. Mr. Elford is responsible for the routine maintenance which requires onsite work twice a week.

IMPERIAL OIL INTERM GROUND WATER MONITORING AND SAMPLING PROGRAM – MANITOBA, SASKATCHEWAN, ALBERTA, QUEBEC, ONTARIO – 2014 - 2016

Mr. Elford organized, scheduled and completed monitoring and sampling of over 250 long term monitoring sites throughout the prairies, Ontario and Quebec. Within this project Mr. Elford's role included: planning field logistics, data and sample collection, organizing sub-contractors and implementing the onsite health and safety program. The results from the collected data and samples confirmed the existence and extent of impacts, if any, on vacant and active Imperial Oil owned properties.

IMPACTED SOIL REMEDIATION – DUNDAS, ONTARIO – 2013

Project included the remediation of contaminated soil impacted by a previous commercial gasoline service station near Dundas, Ontario. The work involved the delineation and excavation of impacted material, the pumping and disposal of impacted ground water, the disposal of impacted material at a suitable landfill facility, backfilling and contouring the excavation. Upon completion of the remedial activities, post remedial monitoring wells were installed and sampled using the low flow technique.

Client: Imperial Oil Ltd. Role: Environmental Technician

TEST PITTING AND DRILLING PROGRAM – BLIND RIVER, ONTARIO – 2013 - 2016

The aim of the project was to delineate impacts on a vacant property in Blind River, Ontario with results from samples taken during test pitting, drilling (overburden and bedrock wells), low flow sampling and soil vapour probe sampling. Mr. Elford's role was that of site supervisor and environmental technician and

included the coordination of site activity, managing of subcontractors, installing soil vapour probes and the completion of the soil, water and soil vapour sampling program.

Client: Imperial Oil Ltd. Role: Site Supervisor, lead Environmental Technician

PORT CREDIT SITE ASSESSMENT – PORT CREDIT, ONTARIO – 2011 – 2015

Focusing on a 75 hectare property on the shore of Lake Ontario, this program aimed to identify the extent of soil and groundwater impacts in order to project the potential cost of remediation. The program encompassed the digging of approximately 300 test pits, drilling approximately 1400 boreholes and installing approximately 200 monitoring wells. Upon completion of the drilling and test pitting, groundwater monitoring data and low flow samples were completed to further delineate the groundwater impacts.

Client: Imperial Oil Ltd. Role: Environmental Technician

ENVIRONMENTAL SITE ASSESSMENTS –ONTARIO – 2011 - 2016

Mr. Elford has completed multiple Phase I and Phase II Environmental Site Assessments on brownfield sites, existing commercial properties, and vacant lands to evaluate environmental liability for clients. Mr. Elford's role for Phase I assessments generally included a site walkover, personnel interviews and a drinking well survey. Mr. Elford supervised the detailed subsurface investigations contingent with Phase II assessments including: the excavation of test pits, advancement of overburden and bedrock wells, obtaining overburden soil samples and groundwater samples and soil vapour samples.