Phase II Environmental Site Assessment

NEWPCC Upgrade: Biosolids Facilities, 2230 Main Street, Winnipeg, Manitoba

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Date: April 25, 2023
Project #: 60689238

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Phase II Environmental Site Assessment
NEWPCC Upgrade Biosolids Facilities
2230 Main Street, Winnipeg, Manitoba

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April 25, 2023

Project #
60689238

Dear Ms. Obach:

Subject: **Phase II Environmental Site Assessment, NEWPCC Upgrade: Biosolids Facilities**
2230 Main Street, Winnipeg, Manitoba

AECOM Canada Ltd. (AECOM) is pleased to submit our final report summarizing the Phase II Environmental Site Assessment completed at the North End Water Pollution Control Centre (NEWPCC) in support of the NEWPCC Upgrade Biosolids Facilities Project, at 2230 Main Street in Winnipeg, Manitoba.

If you have any questions with regards to this report, do not hesitate to contact the undersigned at 204-792-1872. We thank you again for the opportunity to work with you.

Yours sincerely,
AECOM Canada Ltd.

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Executive Summary

The City of Winnipeg retained AECOM Canada Ltd. (AECOM) to complete a Phase II Environmental Site Assessment (ESA) at the North End Water Pollution Control Centre (NEWPCC) located at 2330 Main Street in Winnipeg, Manitoba (MB) (hereafter referred to as the "Site"). The focus of the Phase II ESA was in the western portion of Parcel A and in Parcel B to support the NEWPCC Upgrade: Biosolids Facilities Project.

Previous environmental work completed at the Site in Parcel A in 2017 and 2018 identified concentrations of metals, petroleum hydrocarbons (PHC) and volatile organic carbons (VOCs) in soil above applicable soil quality guidelines.

The objective of the Phase II ESA is to confirm and delineate the previously reported soil impacts and to assess whether PHC, polycyclic aromatic hydrocarbon (PAH), metals, salinity parameters and VOCs impacts are present in soil or groundwater in Parcel A and Parcel B of the Site.

Executed Scope of Work

This environmental soil and groundwater assessment program was undertaken between October 31, 2022, and November 5, 2022 with the drilling of 30 boreholes of which five boreholes were completed as 50 mm (2 inches) diameter groundwater monitoring wells with above-grade steel casing protectors.

Soil samples were collected from each borehole and submitted for laboratory analysis of the following parameters: benzene, toluene, ethylbenzene and xylenes (BTEX), PHC fractions F1 to F4 (PHC F1-F4), PAHs, metals, salinity and VOCs.

The five newly installed groundwater wells and two existing wells were monitored (on November 8 – 9, 2022) for water levels, presence of non-aqueous phase liquid and combustible headspace vapour (CHV) concentrations. For each monitoring well that contained a sufficient volume of water, a groundwater sample was collected and submitted for laboratory analysis of BTEX, PHC F1-F4, PAHs, VOCs and dissolved metals.

Activities associated with the above tasks included the completion of subsurface utility clearances and surveying of investigation locations.

Summary of Findings

The subsurface stratigraphy at the investigated borehole locations generally consisted of topsoil underlain by a horizon of loose clayey silt, which grades into a firm or stiff silty clay 10 metres below ground surface (m bgs), the maximum depth of the investigation.

No staining was noted in any of the boreholes, however a slight PHC odour was noted in two of the boreholes (BH22-15 and BH22-18).

None of the seven wells that were monitored exhibited indications of non-aqueous phase liquids. The recorded groundwater levels ranged from 1.33 to 6.22 m below top of casing.

- Laboratory Analytical Results:
  - Grain size analysis indicated that the clay and silt soils have fine-grained texture.
  - A summary of the soil and groundwater samples above the applied soil quality guidelines (SQGs) and groundwater quality guidelines (GQGs) are presented in the appended tables.
  - Of the 30 boreholes advanced at the Site in 2022, PHC, PAH and metals soil impacts were identified in nine boreholes.
  - PHC, PAH or metals soil impacts were identified in nine boreholes extending from 1.4 m bgs to depths of approximately 3.0 m bgs with limited horizontal delineation. Vertical delineation of impacts has been established in all impacted boreholes, except for two – BH22-25 and MW22-03, both located in the northwest portion of Parcel A. BH22-25 reported metals and PHC F3 impacts at 2.6 – 2.7 m bgs, and MW22-03 had metals impacts at 4.2 – 4.3 m bgs. Considering the decrease in number of parameter exceedances and concentrations between soil samples at 2.6 – 2.7 m bgs and 4.2 – 4.3 m bgs in MW22-03,

delineation could likely be reached at 5.0 m bgs in this borehole. In the seven boreholes where vertical delineation has been achieved, non-impacted soil is reached at depths between approximately 3.0 m to 4.0 m bgs.

- The groundwater sample collected from monitoring well MW22-04 and duplicate (MW22-10) had concentrations of PHC F3 (1.52 mg/L and 1.03 mg/L) above GQGs (0.500 mg/L). Concentrations of PHC F3 exceeding SQGs were reported in soil samples from this borehole at 2.9 - 3.0 m bgs, within the well screen zone.

Conclusions

Based on the above, AECOM concludes and recommends the following:

- The Phase II ESA conducted at the Site identified PHC, PAH and metals parameters in soil and groundwater (PHCs) at concentrations above the applied environmental quality guidelines (EQGs). In most areas across the Site, impacts did not extend below 3.0 – 4.0 m bgs. However, the deepest impacted location (MW22-03) in Parcel A, shows chromium impacts to 4.3 m bgs, with no clean depth established. Soil impacts identified in Parcel A appear to align with what appears to be historical lagoons or settling ponds visible in the 1959 air photo.

- Within Parcel B, PHC, PAH and/or metals impacts did not appear to extend below 3.0 m bgs and horizontal delineation has been achieved in all directions, except to the north. It should be noted, that although horizontal delineation has been achieved in Parcel B to the east, south and west, the nearest boreholes providing clean boundaries are located approximately 50 m away, so a more precise delineation is recommended to estimate impacted soil volumes.

- Soil management will be required during construction of the Biosolids Facilities Project. It is recommended that a Construction Environmental Management Plan be prepared during the tendering process. It is also recommended that a Phase III ESA be completed to delineate impacted soil to be able to provide a more accurate estimate of location and volume of impacted soil at the Site and to assist in the preparation of a Remedial Action Plan. In particular, additional investigation is recommended in areas where planned construction coincides with the location of historical lagoons in Parcel A.

Given the presence of soil and groundwater impacts, a copy of this report should be submitted to the Director of Manitoba Environment, Climate and Parks (MECP) under *Section 3.1, Part 2 of the Contaminated Sites Remediation Act*.

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1. Introduction

The City of Winnipeg retained AECOM Canada Ltd. (AECOM) to complete a Phase II Environmental Site Assessment (ESA) at the North End Water Pollution Control Centre (NEWPCC) in support of the NEWPCC Upgrade Biosolids Facilities Project. The work took place in the western portion of Parcel A and in Parcel B, at 2330 Main Street in Winnipeg, Manitoba (MB) (hereafter referred to as the "Site").

The location and layout of the Site are shown in Figure 1. Selected Site photographs, borehole logs and certificates of laboratory analysis, are presented in Appendices A through C, respectively. The Phase II ESA was conducted in October and November 2022.

1.1 Objectives

Previous environmental work completed at the Site in Parcel A in 2017 and 2018 identified concentrations of metals, petroleum hydrocarbons (PHC) and volatile organic carbons (VOCs) in soil above applicable soil quality guidelines (SNC, 2018).

The objective of the Phase II ESA was to confirm and delineate the previously reported soil impacts and to assess whether PHC, polycyclic aromatic hydrocarbon (PAH), metals, salinity parameters and VOCs impacts are present in soil or groundwater in Parcel A and Parcel B of the Site.

2. Background

The Site is located within the NEWPCC facilities and comprises the area west of the developed NEWPCC facilities at 2230 Main Street (Parcel A) and the area immediately west across the rail line (Parcel B). Parcel B can be accessed from 2510 Ferrier Street. The Site is zoned as M1-M3 Industrial Land Use (City of Winnipeg, 2022). The Site Plan is shown on Figure 1.

Parcel A area is estimated to be about 800 m x 300 m and infrastructure on site includes several buildings, tank farms, paved access roads and landscaped areas. The area of investigation was on the west portion of Parcel A within a boundary of approximately 300 m x 200 m. Parcel B is approximately 200 m x 300 m in size and is currently vacant except for a telecommunication tower and it is covered by vegetation. Parcel A and Parcel B are divided by a Canadian Pacific Rail line that runs northeast -southwest. The nearest surface water body to the Site is the Red River located about 1 km east of the Site.

Parcel A is surrounded by vacant land with residential land further to the north. To the south is Vince Leah Park and residential land. A CP rail line is located on the west boundary of Parcel A, with Parcel B further to the west. The North End Winnipeg Water Pollution Control is to the east of the Site.

Parcel B is surrounded by agricultural/vacant land to the north, commercial/ industrial land use to the south, Ferrier Street and industrial building to the west and the CP rail line with Parcel A to the east.

2.1 Previous Environmental Activities

Stantec Consulting Ltd., (Stantec, 2017), Phase I Environmental Site Assessment, 2230 Main Street, Winnipeg, Manitoba

Stantec Consulting Ltd. (Stantec) conducted a Phase I ESA on the Site in 2016, which also included the operating treatment plant. The report concluded that there was evidence of potential and/or actual environmental contamination based on the historical activities at the Site. Areas of potential environmental concern (APECs) that relate to Parcel A and Parcel B included waste material piles on the northwest corner of Parcel A, the CP rail line, a former landfill located south of Parcel A and suspect fill piles were identified on Parcel B. In 2016, Stantec conducted a geotechnical Investigation for the proposed NEWPCC proposed upgrade project and detected a hydrocarbon odour from the fill material sampled from one of the test holes (TH07 located on the eastern portion of Parcel B) at a depth of approximately 4.3 m below grade, which presented an APEC. No soil samples were submitted for laboratory analysis of potential contaminant since the investigation was for geotechnical purposes.

SNC Lavalin (SNC, 2018), 2018 Supplemental Environmental Site Assessment, City of Winnipeg North End Treatment Facility, 2230 Main Street, Winnipeg, Manitoba

In 2017 SNC Lavalin (SNC) conducted a Phase II ESA which consisted of drilling 12 boreholes which were completed as monitoring wells (17-01 to 17-12). A soil sample from borehole 17-02 (located on the west side of Parcel A close to the rail line) at a depth of 2.5 metres below ground surface (m bgs) showed that the concentration of PHC fractions F2 and F3 and trichloroethylene (TCE) exceeded the applicable guideline values. However, the groundwater samples from the monitoring wells showed that the concentrations of all the analysed parameters were less than the applicable groundwater guideline values (SNC-Lavalin, 2018).

In 2018, SNC conducted a supplemental site assessment to delineate the impacts identified in the 2017 Phase II ESA. The report concluded that concentrations of chromium exceeded applied soil quality guidelines from borehole 18-03 at a depth of 2.9 m to 3 m bgs. Borehole 18-03 is located on Parcel A approximately 40 m east of the property. Concentrations of PHC, VOC and PAH were below applied soil quality guidelines for all soil samples submitted for the Site. The report concluded that the previously identified PHC and TCE soil exceedances identified in 2017 had been vertically and horizontally delineated.

3. Scope of Work

The Phase II ESA was carried out in general accordance with the Canadian Standards Association (CSA) Standard *Z769-00, Phase II Environmental Site Assessment* (CSA 2018). The scope of work for the Phase II ESA included the following tasks:

- Development of a site-specific Safe Work Plan.
- Execution of Drilling:
  - Completion of public utility locates, and one set of private utility locates.
  - Parcel A: Advancement of 14 direct push boreholes, three of which were completed as groundwater monitoring wells, to a maximum depth of 6.1 m bgs. Four of the boreholes were to delineate soil metal impacts identified in 2018 at approximately 3 m bgs (BH18-03) and one of those locations was also to confirm PHC and VOC impacts identified in 2017 (BH17-02).
  - Parcel B: Advancement of 16 direct push boreholes, two of which were completed as groundwater monitoring wells, to a maximum depth of 10.0 m bgs.
  - Collection of up to three soil samples from each borehole location for potential laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX); PHC Fractions F1-F4 (F1-F4); metals; VOCs, one sample per borehole for PAHs, three samples in total for grain size analysis and three samples for salinity analysis. The scope also included analysis of one duplicate sample for every 10 samples analyzed.
  - One composite soil sample was collected from the onsite soil bags containing auger cuttings for analysis of landfill acceptance parameters for disposal purposes.
  - Collection of one composite surface soil sample from the proposed construction laydown area and two composite surface soil samples from the proposed staging area to assess baseline conditions.
  - One groundwater sampling event, in both Parcel A and B, including collection of one groundwater sample from the five newly installed monitoring wells, plus two existing monitoring wells for laboratory analysis of BTEX F1-F4, dissolved metals, VOCs and PAHs.
  - Site survey to document locations and elevations of borehole and monitoring well locations.
  - Preparation of a Phase II ESA report summarizing the results of the soil and groundwater samples.

The borehole and monitoring well locations, staging area and construction laydown surface soil sample locations are shown on the attached Figure 1.

4. Site Overview

4.1 Bedrock Geology

The Winnipeg area straddles the boundary between the Paleozoic and Precambrian outcrop areas. The bedrock geology of the Site consists of Winnipeg Formation sandstones and shales overlain by mottled dolomitic limestones of the Red River Formation, 150 – 175 m in thickness. The Red River Formation consists of the lower and upper Red River Strata (Manitoba Energy and Mines, 1990).

4.2 Site Stratigraphy

The general subsurface stratigraphy encountered during the Phase II ESA consisted of topsoil or clay fill to 0.3 m, underlain by layers of varying thickness of silty clay and clayey silt to the maximum depth of the investigation of 10 m bgs.

4.3 Surface Water Bodies and Drainage

The nearest surface water body to the Site is the Red River located about 1 km east of the Site. Based on observations of the general topography, surface water drainage at the Site is likely to the southwest.

5. Environmental Quality Guidelines

5.1 Regulatory Framework

The Province of Manitoba currently references documents from the Canadian Council of Ministers of the Environment (CCME) and Ontario Ministry of the Environment (Ontario MOE) as Primary and Secondary standards under the *Contaminated Sites Remediation* (CSR) *Act*. The applicable standards are summarized below.

Primary standards:

- Canadian Environmental Quality Guidelines (CEQG), Canadian Council of Ministers of the Environment (CCME) (most recent online version).
- Canada-Wide Standards (CWS) for Petroleum Hydrocarbons (PHC) in Soil, CCME (CCME) (most recent online version).
- Federal Contaminated Sites Action Plan (FCSAP), Guidance Document on Federal Interim Groundwater Quality Guidelines for Federal Contaminated Sites (2016) - Generic Guidelines for Commercial and Industrial Land Uses, Fine Grained Soil.

Secondary standard:

- Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Ontario Ministry of the Environment, April 15, 2011.

The CCME guidelines and CWS standards utilize a risk-based approach allowing limited modification of the generic soil quality guidelines (SQGs) in light of prescribed site-specific factors affecting contaminant mobility and receptor characterization. In other words, in cases where soil concentrations exceed the generic guidelines, an analysis of risk factors specific to the site in question is acceptable in order to allow for a realistic assessment of the actual risks at the site. Using this approach, SQGs are selected based on a step-through procedure eliminating the exposure pathways that do not apply to receptors in the vicinity of the site and finally selecting the appropriate and most conservative guideline remaining after the elimination procedure. The guidelines are protective of both human and environmental receptors.

This approach was undertaken for the Site in order to provide a more realistic assessment of human and environmental risks at the Site. The applicable site-specific factors at the Sites and the rationale for the use of CCME Tier II SQGs for BTEX and CWS Tier 1 SQGs for PHC fractions F1 to F4 are as follows:

- Industrial land use EQGs were used as the Site is used as a Water Treatment Facility for the City of Winnipeg and fenced off from the public.
- Within the investigated areas of the Site, soils encountered during the drilling program were classified as “fine-grained”, as determined by grain size analyses.

In the CCME guidance documents, surface soil extends from ground surface to 1.5 m bgs, and subsurface soil extends below 3.0 m bgs, with classification of soil between 1.5 m and 3.0 m bgs up to the discretion of the provincial regulator. Manitoba Environment, Climate and Parks (MECP) has defined surface soil as extending from surface to 1.5 m bgs, and subsoil including materials below 1.5 m bgs. These definitions have been applied in this document. Where appropriate, the ecological soil contact pathway has been removed from comparison with soil samples collected from depths greater than 1.5 m bgs.

As adopted by MECP, soil quality guidelines for benzene use a lifetime incremental cancer risk of 10^{-5} for human health exposure.

The waste disposal ground acceptance criteria are based on the CCME and CWS for PHC in Soil for fine-grained surface soil for industrial land use sites, the environmental health guideline, and the soil contact pathway as outlined in the MECP guidance document Criteria for Acceptance of Contaminated Soil at Waste Disposal Grounds guidance document (MECP, 2016).

5.1.1 Land Use

The Site is located within the City of Winnipeg and zoned as M1-M3 Industrial (City of Winnipeg, 2022). Industrial land use EQGs were used as the Site is utilized as a wastewater treatment plant for the City of Winnipeg and is fenced off from the public.

5.1.2 Grain Size

During the Phase II ESA activities completed in November 2022, clay and silt units were observed beneath the Site to a depth of 10 m below grade. Soil samples were submitted to the laboratory for grain size analysis. The results indicated that soil was generally fine-grained; therefore, the soil type governing the transport and fate of contaminants in the surface and subsurface is fine-grained.

5.1.3 Human Health and Ecological Exposure Pathways

The following subsections and Table 5-1 and Table 5-2 summarize applicable site-specific factors at the Site and the rationale for the use of EQGs for BTEX, PHC F1-F4, and PAHs.

5.1.3.1 Potable Groundwater

Potable water for the Site and surrounding area is provided by the City of Winnipeg via a piped municipal distribution system fed by Shoal Lake located approximately 145 km southeast of the city. A search of the Groundwater Information Network identified one well (Borehole Data Provider ID:116777) within 500 m of the Site and the well was classified as observation well (GIN, 2021). The well search did not identify any domestic or industrial water wells on the Site or within 500 m of the Site. As the Site does not currently require a water source and there are clay and/or silty clay soils to at least 10 m below grade, the potable groundwater pathway is not considered to be applicable to the Site.

5.1.3.2 Indoor Air Vapour Inhalation

The indoor vapour inhalation pathway is applicable to any site that has a building or where PHC contamination has the potential to be within 30 m of a building. The Site currently has several buildings with slab-on-grade foundation and the neighbouring properties have buildings where the vapour inhalation pathway is applicable. As such, the vapour inhalation pathway is considered an applicable pathway for the Site and the surrounding properties.

5.1.3.4 Freshwater Aquatic Life

The freshwater aquatic life pathway is considered applicable if contaminants of concern are located within 500 m of a surface water body (Federal Contaminated Sites Action Plan, 2016). The closest surface water body to the Site is the Red River, which is located approximately 1 km east of the Site. Also, given the presence of fine-grained clay and silt material at the Site and the distant to the Red River, it is highly unlikely that contaminants of concern will migrate 1 km and reach the Red River before being naturally attenuated.

5.1.3.5 Ecological Soil Contact

The ecological contact pathway is based on direct contact by plants and soil invertebrates. According to the CWS Technical Supplement Document, the soil contact exposure pathway may be eliminated for depths below 3 m with the provincial regulator to dictate how to address soils between 1.5 m and 3 m bgs (CCME 2008). According to MECP, surface soil is defined as soil at or above 1.5 m bgs with subsurface soil defined as soil below 1.5 m bgs, meaning the ecological soil contact exposure pathway may be eliminated below a depth of 1.5 m provided there are

other applicable exposure pathways. The ecological contact pathway is applicable to the Site up to a depth of 1.5 m bgs.

5.1.3.6 Irrigation/Livestock Watering

The irrigation or livestock watering pathway does not apply since the Site is located within the City of Winnipeg and is not used for agricultural purposes.

Table 5-1: Exposure Pathway Summary for Soil

Exposure Scenarios	Pathway /Receptor	Tier 2 Considerations	Applies (Y/N)	Rationale/Notes
Human Health	Soil Ingestion	Pathway required direct exposure to soil and is applicable to all soil shallower than 1.5 m bgs. Direct contact below 1.5 m bgs would apply during activities where subsoil is exposed, such as during construction. Pathway may be eliminated below 1.5 m bgs. provided there are Site conditions prohibiting the exposure of the subsoil, including excavation and stockpiling of subsoil at the surface.[a]	Y	The soil ingestion and dermal contact pathways are considered applicable to the Site.
	Dermal Contact		Y	
	Soil Inhalation	Applies to all contaminants, but pathway maybe eliminated for volatile organic compounds, as volatile organic compounds (VOCs) are not typically associated with particulate matter in air.[b]	Y	As PAH impacts (non-VOCs) are present, the soil inhalation pathway is considered applicable to the Site.
	Indoor Vapour Inhalation, including basement and slab-on-grade	Pathway is applicable to any site that has a building. Unless precluding factors, including preferential migration pathways or a low permeability surface cap, buildings would need to be located at least 30 m from the Site. May be eliminated if there are no buildings, but site controls restricting the future construction of a building would be required.[a]	Y	The Site is currently used for the City of Winnipeg North End Waste Treatment Facility and buildings exist on the Site (although the Parcel B is a vacant), the vapour inhalation pathway is used for this assessment so this property will not be restricted on future land use.
	Off Site Migration	Based on wind and water transport of soil from a commercial or industrial site to an adjacent, more sensitive site, such as agricultural or residential. May not be applicable for volatile organic compounds, which are not typically associated with wind and water transport of soil particles. [b]	Y	Site is Industrial and neighbouring properties are commercial, agricultural and residential.
	Soil for Protection of Potable Groundwater	May be excluded if aquifer is not suitable as a potential source for potable water use. Considerations to determine if pathway can be excluded include: - Current source of water at the site; - Existing water wells, typically within 500 m of the site; - Depth below grade of usable aquifer; - Yield of usable aquifer; and - Location of usable surface water sources for potable water. [a] Additional considerations to exclude the pathway include: - Municipal bylaws prohibiting water wells for potable water; - Naturally non-potable shallow groundwater; - No hydrological connection between impacted soil and groundwater aquifer with sufficient recharge for potable water use.[b]	N	As described above in Section 5.1.3.1, the Site is located within the City of Winnipeg where potable water is provided via a piped municipal distribution. There is one observation well identified within 500 m of the site and no domestic or industrial use wells. The potable groundwater pathway has not been considered applicable for the Site.
	Produce, Meat and Milk	Applies to agricultural and residential land use as an indirect pathway through food-chain contamination/bioaccumulation during production and consumption of produce, meat, and milk.[b]	N	The Site is not used for Agricultural purposes
Ecological	Ecological Soil Contact	Pathway is applied for soils with a depth shallower than 1.5 m bgs. Between 1.5 m and 3 m, ecological soil contact may be required depending on the jurisdiction. The pathway may be eliminated for soil below 3 m.[a] MECP defines surface soil as soil at or above 1.5 m bgs with subsurface soil defined as soil below 1.5 m bgs[d]. Therefore, ecological soil contact may be eliminated below a depth of 1.5 m bgs provided the site maintains 1.5 m of cover.	Y	The ecological soil contact pathway has been excluded for depths greater than 1.5 m BGS in this assessment
	Soil (and Food) Ingestion by Livestock/Wildlife	Includes resident and mobile livestock and wildlife, as well as secondary and tertiary consumers where a substance may bioaccumulate[b]. May be eliminated if the site is fully capped or paved [a].	N	The soil ingestion pathway is not considered applicable to the Site.
	Nutrient and Energy Cycling	Based on the ability of the soil to support plant life through nutrient and energy cycles such as decomposition, respiration, and organic nutrient cycles as a component of the ecological function of soil. Applies to all land uses and can be used as a check mechanism.[b]	Y	The nutrient and energy cycling pathway is considered applicable to the Site.
	Off Site Migration	Based on wind and water transport of soil from a commercial or industrial site to an adjacent, more sensitive site, such as agricultural or residential. May not be applicable for volatile organic compounds, which are not typically associated with wind and water transport of soil particles. [b]	Y	Surrounding land is used for agricultural, commercial and residential purposes.
	Soil for Protection of Groundwater for Aquatic Life (including Freshwater Life[1])	It is expected that the surface water body is located at least 10 m away from the impacted area. May be eliminated if: - No permanent surface water bodies are present, typically within 500 m of the site; and - There is no hydrological connection between the groundwater at the site and the surface water body (groundwater does not discharge to a surface water body).[a] Transient/short term surface water bodies may also need to be considered if they have the ability to support aquatic life. With supporting data, the guideline value may be modified at Tier 2 to account for dilution.[a]	N	The Red River is located approximately 1 km east of the Site. No seasonal wetlands are located within 500 m of the Site. As a result, the freshwater aquatic life pathway has not been considered.
	Soil for Protection of Water for Livestock and Wildlife Watering/Irrigation	Applicable to agricultural land use where there is a suitable water source, including groundwater or surface water. [e] It is expected that the water source could be located immediately adjacent to the edge of the impacts (no separation distance for dilution). Considerations to determine if pathway can be excluded include: - Location of existing permanent and seasonal water sources (ground and surface), typically within 500 m of the site; - Depth below grade of usable water source; - Yield of usable water source; and - Hydrological connection between impacts and water source.[a]	N	The site is not used for agricultural purposes. Additionally, As described above in Section 5.1.3.1, there is one observation well identified within 500 m of the site. Considering the site is industrial, there is no presence of livestock or use wells and with no potential for future well installations, the irrigation/livestock groundwater pathway has not been considered applicable for the Site.
Other	Management Limits	Management limits always apply, regardless of depths of impact if the ecological pathway has been removed, and takes into account: - Free phase formation; - Exposure of workers in trenches to PHC vapours; - Fire and explosive hazards; - Effects on buried infrastructure; and - Aesthetic consideration.[a]	Y	Cannot be removed.
	Interim Soil Quality Criteria	Interim value as the data is insufficient to calculate a provisional or Soil Quality Guideline protective of human health and/or the environment. Use it at discretion. Consultation with other jurisdictions is recommended.[c]	Y	Applicable where no new guideline values have been derived.
	Provisional Soil Quality Guideline	Provisional value as the data is insufficient to calculate a Soil Quality Guideline protective of human health and/or the environment. Use it at discretion. Consultation with other jurisdictions is recommended.[c]	Y	Applicable where no new guideline values have been derived.

Notes:

[1] Freshwater is water with a total dissolved salt content ≤ 1,000 mg/L, marine water is water with a total dissolved salt content > 5,000 mg/L[f]

[a] Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil, User Guidance (CCME 2008)

[b] A Protocol for the Derivation of Environmental and Human Health Soil Quality Guidelines (CCME 2006)

[c] Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health – Polycyclic Aromatic Hydrocarbons (CCME 2010)

[d] Manitoba Criteria for BTEX in Investigation Results (MCCC 2016)

[e] Alberta Tier 1 Soil and Groundwater Remediation Guidelines (AEP 2019a)

[f] *A Protocol for the Derivation of Water Quality Guidelines for the Protection of Aquatic Life (CCME 2007)*

Table 5-2: Exposure Pathway Summary for Groundwater

Exposure Scenarios	Pathway /Receptor	Tier 2 Considerations	Applies (Y/N)	Rationale/Notes
Human Health	Vapour Inhalation	May only be applicable to volatile contaminants[a]. Based on indoor inhalation of migrated vapours by humans. May be eliminated if: - There are no occupied buildings within 30 m of the groundwater impacts.[b] If this pathway is eliminated, may need to pose land use restrictions to prohibit or limit construction of buildings.[c]	Y	The Site is currently used for the City of Winnipeg North End Waste Treatment Facility and buildings exist on the Site (although the Parcel B is a vacant), the vapour inhalation pathway is used for this assessment so this property will not be restricted on future land use.
	Potable Water (including Drinking Water[1], dermal contact and inhalation potential)	Definition of a potable water aquifer is based on jurisdiction[b]. May need to be considered if impacted groundwater could impact a surface water body used for potable water. Considerations to exclude the pathway include: - Presence of municipal bylaws prohibiting water wells for potable water use; - Shallow groundwater is naturally non-potable; and - There is no hydrological connection between impacted soil and groundwater aquifers with sufficient recharge for potable use.[a] In Manitoba, there is no definition of a potable water aquifer. In Alberta, a domestic use (potable water) aquifer is defined as having one or more of: - A bulk hydraulic conductivity of $1x10^{-6}$ m/s or greater, and thickness to support a sustained yield of 0.76 L/min or more; - Is currently used for domestic purposes; or - Any aquifer determined to be potable. To exclude the domestic use aquifer, there must be sufficient thickness of natural, undisturbed material acting as a barrier between the impacted zone and the aquifer, such that there is: - At least 5 m of undisturbed, unfractured fine-grained material with a hydraulic conductivity of $1x10^{-7}$ m/s or less; or - At least 5 m of natural, undisturbed material supported by technical information regarding the lithological properties.[c]	N	As described above in Section 5.1.3.1, the Site is located within the City of Winnipeg where potable water is provided via a piped municipal distribution. There is one observation well identified within 500 m of the Site and no domestic or industrial use wells. The potable groundwater pathway has not been considered applicable for the Site.
Ecological	Ecological Contact (including Soil and Plant Organisms)	Based on direct contact by plants and soil invertebrates. May be eliminated below 3 mBGS due to limited relevance at this depth, but elimination based on jurisdictional decision.[a]	Y	The ecological pathway is considered applicable to the Site.
	Aquatic Life (including freshwater and marine)[2]	Based on at least a 10 m separation between a surface water body and the impacts. May be eliminated if there is no potential for impacts to reach the surface water body at concentrations exceeding the surface water quality guidelines. Potentially this includes: - There are no water bodies within 500 m of the groundwater impacts (distances may be further based on presence of coarse soil, chlorinated solvents (2,000 m) , or conservative solutes (10,000 m)); - If groundwater transport modelling indicates that the impacts would not reach nearby surface water bodies at concentrations exceeding the surface water quality guidelines; or - It is possible to demonstrate that there is no hydrological connection between the contaminated groundwater and the surface water body.[b] In Alberta, protection of groundwater for aquatic life applies if surface water bodies are located within 300 m downgradient and 100 m upgradient of the site, as measured between the leading edge of the impact and flood level of the water body.[c]	N	The Red River is located approximately 1 km east of the Site and no seasonal wetlands are located within 500 m of the Site. As a result, the freshwater aquatic life pathway has not been considered.
	Irrigation/Livestock Watering	Applies to agricultural land use. May be excluded it: - There is no suitable aquifer; and - Groundwater impacts are not present within the depth of typical agricultural dugouts or irrigation source.[b] In Alberta, elimination of these pathways is possible if: - The impact is below the typical depth of the dugout; and - There is an intervening layer (at least 5 m of undisturbed, unfractured fine-grained material with a hydraulic conductivity of $1x10^{-7}$ m/s or less or material supported by technical information regarding the lithological properties) between the contaminated aquifer and any aquifer that may be utilized for irrigation or livestock watering. However, land use restrictions may be required to prevent future development of dugouts within the zone of impacts or use of the impacted aquifer.[c]	N	The Site is located within an industrial land use. As described above in Section 5.1.3.1, there is one observation well identified within 500 m of the Site. Considering that there is no presence of livestock use wells and with no potential for future well installations, the irrigation/livestock groundwater pathway has not been considered applicable for the Site.
	Wildlife Watering	Based on at least a 10 m separation between a surface water body and the impacts. May be eliminated if: - There are no water bodies within 500 m of the groundwater impacts (distances may be further based on presence of coarse soil, chlorinated solvents (2,000 m) , or conservative solutes (10,000 m)); or - It is possible to demonstrate that there is no hydrological connection between the contaminated groundwater and the surface water body.[b] In Alberta, protection of groundwater for wildlife water applies if surface water bodies are located within 300 m downgradient and 100 m upgradient of the Site, as measured between the leading edge of the impact and flood level of the water body.[c]	N	A permanent surface water body (the Red River) is located about 1 km east of the Site. No seasonal wetlands are located within 500 m of the Site. Therefore, the wildlife watering pathway is considered not applicable.

Notes:

[1] Where available, maximum acceptable concentration (MAC) values used before aesthetic objective (AO) or operational guidance values (OG), as the MAC is based on the protection of health, whereas the others are considerations based on aesthetics and system operation.[d]

[2] Freshwater is water with a total dissolved salt content ≤ 1,000 mg/L, marine water is water with a total dissolved salt content > 5,000 mg/L.[e]

[a] A Protocol for the Derivation of Groundwater Quality Guidelines for Use at Contaminated Sites (CCME 2015).

[b] Guidance Document of Federal Interim Groundwater Quality Guidelines for Federal Contaminated Sites (Government of Canada 2016).

[c] Saskatchewan Environmental Code, Endpoint Selection Standard (Government of Saskatchewan 2002).

[d] Guidelines for Canadian Drinking Water Quality Summary Table (Health Canada 2019).

[e] A Protocol for the Derivation of Water Quality Guidelines for the Protection of Aquatic Life (CCME 2007)

6. Field Program and Methodology

6.1 Health and Safety Plan Development

A site-specific HASP that complied with all applicable legislation and City of Winnipeg safety requirements was completed. A copy of the HASP was provided to all field personnel and subcontractors for their review and signature prior to the commencement of field activities each day. A health and safety tailgate meeting was held at the beginning of each workday to review issues of concern identified in the HASP, issues of concern identified during the meeting, and anything that may have been identified that was not previously included in the HASP. A daily Task Hazard Assessment (THA) was completed to record any of the new or changed hazards that were identified or unique to a specific location.

6.2 Field Schedule

A subsurface drilling investigation was conducted at the Site between October 31 and November 5, 2022. The groundwater monitoring and sampling events were completed in November 8-9, 2020. A Site plan showing the locations of the boreholes and installed monitoring wells is included as Figure 1. Table 6-1 below outlines the field schedule for this assignment.

Table 6-1: Field Schedule

Date	Field Work Description
October 27, 2022	Site Survey and Utility locates
October 31 – November 5, 2022	Drilling and soil sampling (30 boreholes including installation of 5 monitoring wells)
November 8 - 9, 2022	Groundwater Monitoring and Sampling Event
November 9, 2022	Site Survey

6.3 Subsurface Clearance

Prior to the subsurface drilling investigation, AECOM personnel obtained utility clearances from representatives of applicable utility companies and retained a separate private utility locator (Structure Scan Inc.) to locate all utilities in the areas of investigation at the Site. The Site work area and investigation areas were initially surveyed and staked out by AECOM. Structure Scan provided the locating/marking of utility lines at the Site and provided a copy drawing to AECOM of all findings. An Underground Utilities & Subsurface Installation Clearance Checklist was completed by AECOM to confirm all pre-disturbance efforts were accomplished.

6.4 Borehole Drilling and Groundwater Well Installation

The Phase II ESA consisted of advancing 30 boreholes (BH22-01 to BH22-25 and MW22-01 to MW22-07) between October 31 and November 5, 2022, using a direct push rig operated by Maple Leaf Drilling of Winnipeg, MB. Maple Leaf Drilling provided a drill rig capable of advancing a continuous, direct push probe for sample collection and support equipment with operators to advance the boreholes at the Site. The boreholes were advanced to depths ranging from 3.0 m bgs to 10 m bgs. Boreholes that were not completed as groundwater monitoring wells were backfilled with bentonite. The borehole locations are shown on Figure 1. Selected photographs of the drilling and well installation activities are included in Appendix A. Borehole logs are provided in Appendix B.

As indicated on Figure 1, five boreholes were completed as above-grade monitoring wells (MW22-01 to MW22-05) during 2022. The monitoring wells were constructed of 50 mm diameter, Schedule 40 PVC screen and solid casing. The well completion zones consisted of 0.254 mm slot screens, and sand was placed around the screens from the

bottom of the screen to 0.3 m above the top of the screen. The remainder of the well annulus was backfilled with bentonite. The monitoring wells completion details are shown on the borehole logs attached as Appendix B.

6.4.1 Soil Sampling and Logging

The following methods were applied to obtain, screen, and package soil for analytical testing.

- Soil samples were collected from 0.083 m diameter discrete sampling tubes of the direct push drilling rig at approximately 0.8 m intervals, at stratigraphic boundaries, and at locations where potential chemical impacts were suspected and/or observed to a maximum depth of 10 m bgs.
- Collected soil samples were trimmed, using stainless steel sampling utensils, and sealed in individual plastic bags for field testing and potential laboratory analysis as outlined below:
- Soil samples for field testing were sealed in a bag with an equal amount of air. The sealed bags were agitated for several seconds and allowed to equilibrate temperature (to approximately 2 degrees Celsius (°C) considering the cold season) prior to field testing. Once the samples were warmed, the probe of an RKI Eagle was inserted through the side of the bag to sample the headspace over the soil and provide a relative indication of CHVs present in the soil sample. The RKI Eagle was configured to exclude methane from its analysis. Field vapour measurements are provided on the borehole logs in Appendix B.
- Soil samples were selected for laboratory analysis based on CHV measurement results, soil stratigraphy, visual observations, and expected contaminant depth. The selected soil samples were placed into laboratory-supplied glass vials prefilled with methanol preservative using a dedicated TerraCore™ sampling device and laboratory-supplied glass sampling jars that were tightly sealed with a Teflon-lined lid, then placed in a cooler with ice to reduce temperature fluctuations prior to delivery. All samples were submitted to the ALS Laboratories in Winnipeg, for analysis of BTEX, PHC F1-F4, VOCs, and metals and select samples were submitted for analysis of PAHs, salinity, grain size analysis and landfill acceptance.
- Soil cuttings were placed in large soil bags and remain onsite.

To prevent cross-contamination, tools used to trim soil samples were cleaned between use and new nitrile gloves were used to collect each soil sample. The boreholes were logged in general accordance with ASTM D2466 of the USCS based on observations from the discrete sampling tubes containing soil cores obtained from each borehole, as well as the behaviour of the drill rig. The logging included visual classification of soils, as well as interpretation of subsurface moisture, groundwater conditions, discolouration, and odours. These observations are presented on the borehole logs in Appendix B.

6.5 Groundwater Activities

6.5.1 Groundwater Monitoring and Sampling

Groundwater monitoring and sampling was conducted on the five new installed monitoring wells and two existing monitoring wells in the 2022 event. Groundwater monitoring and sampling was completed using the procedures outlined below.

- Using an interface probe, depth to groundwater, depth of the monitoring well, and thickness of non-aqueous phase liquids, if present, were measured and recorded.
- Following monitoring activities, new, dedicated HDPE bailers was used to develop/ purge the monitoring well by removing approximately three well volume of groundwater or until the monitoring well was considered to be dry.
- After allowing for the groundwater to recharge within each monitoring well (next day), groundwater samples were collected using the dedicated bailers.
- Each groundwater sample was dispensed from the dedicated bailer into clean laboratory-supplied containers and field filtered preserved as necessary in accordance with laboratory instructions.
- The containers were tightly sealed and placed in a cooler with ice for delivery to ALS Laboratory in Winnipeg, MB, for analysis.

- The groundwater samples were submitted for laboratory analysis of BTEX, PHC F1-F4, VOCs, PAHs and dissolved metals.

To minimize cross-contamination, the interface probe was cleaned between well locations, and new, dedicated supplies (nitrile gloves and bailers) were used at each monitoring well.

6.6 Surveying

The proposed borehole locations were staked by AECOM prior to the drilling investigation and were surveyed by AECOM Survey staff on November 9, 2022 to confirm the locations of boreholes and monitoring wells that were moved during drilling activities. The survey information, consisting of northing, easting, and elevations for ground level at each borehole location were obtained. The survey results (coordinates, ground elevation, and top of well casing elevation) are shown on the borehole logs in Appendix B and in Table 2.

6.7 Quality Assurance and Quality Control Program

6.7.1 AECOM

To confirm that the sampling and analytical data collected was interpretable, defensible, and comparable, a quality assurance (QA) / quality control (QC) program was implemented for the project. The QA/QC measures were taken during both the collection and analysis of samples.

Quality control measures used in the collection, preservation, shipment, and analysis of environmental samples included the following:

- Sampling techniques were performed in accordance with standard AECOM protocols.
- Rigorous field notes were taken during the investigation.
- All samples were kept cool prior to shipment to the laboratory.
- Samples were assigned unique sample control number and transported under chain of custody procedures.
- The analytical laboratory had proficiency certification issued by the Standards Council of Canada (SCC) for the specific analyses conducted.

QA measures established for the site assessment included collection of duplicate field samples at the rate of approximately 10%, with preferential analysis of duplicate sample pairs, where appropriate. A duplicate field sample consisted of a second sample collected from the same location as the primary sample and submitted to the analytical laboratory under a separate label.

The relative percent difference (RPD) between duplicate sample results was used to assess overall sampling precision. The RPD is a measure of the variability between two duplicate analyses and is calculated by the following equation:

$$RPD = 100 \times \frac{(x - y)}{(x + y)/2}$$

Where x is the primary result and y is the duplicate result.

The duplicate field results are considered acceptable if the RPD was less than the alert criteria, which is equivalent to twice the laboratory RPD QC limit. The alert criteria varies based on the analytical parameter and sample matrix, with the alert criteria for soil generally being 60% for PHC F1, 80% for PHC F2-F4, and 100% for BTEX and PAHs, and the alert criteria for groundwater generally being 60% for BTEX, PHC F1-F2, and PAHs.

Due to the uncertainty of results near the laboratory reportable detection limit (RDL), an alternative check for QA was completed for duplicates where concentrations were also less than five times the laboratory RDL. This alternative check calculated the difference between the sample and duplicate results, with the results considered acceptable if the difference between the results was less than two times the RDL.

Additional QA/QC measures completed during groundwater activities included the generation of a trip blank. The trip blank was created by the laboratory and accompanied the samples during the associated field activities to assess for potential cross-contamination of impacts during shipping. As the water supplied by the laboratory did not contain any of the contaminants of concern, any detectable concentration of a contaminant may indicate potential QA/QC issues during shipping and/or analysis. A field blank was created in an effort to evaluate the cleanliness of groundwater sampling equipment and the potential for cross contamination by pouring inorganic free water provided by the laboratory through the bailer and collecting the water in laboratory supplied containers.

6.7.2 Laboratory

ALS Laboratory has been evaluated and accredited by the Standards Council of Canada (SCC) for the required environmental analysis. ALS laboratory completed QA/QC activities that included laboratory duplicates, matrix spikes, method blanks, surrogate spike analysis, QC standard, calibration check samples, and standard reference material analysis to determine analytical accuracy.

Quality control limits for these items are defined by the analytical method utilized by the laboratory. ALS Laboratory routinely applies QA/QC protocols including the use of standard operating procedures, adhering to principles of good laboratory practice and using standardized, approved scientific methodologies. Details of the internal QA/QC procedures and methodologies employed ALS Laboratory are presented in the laboratory reports provided in Appendix C.

7. Results

Field measurements and observations as well as laboratory results are summarized in the following subsections.

7.1 Field Observations

7.1.1 Stratigraphy

The general subsurface stratigraphy encountered during the Phase II ESA consisted of topsoil or clay fill underlain by varying layers of silty clay and clayey silt to the maximum depth of the investigation (i.e., 10 m below grade). Grain size analysis for six select silty soil samples indicated that the dominant silt soils have fine-grained texture (Table 1).

During the 2022 investigation event, no staining was noted in any of the boreholes, however slight PHC odours were noted in boreholes BH22-15 and BH22-18 located in Parcel A.

A detailed description of the soil stratigraphy encountered during the field investigation is included in the borehole logs in Appendix B.

7.1.2 Combustible Vapour Measurements

Field CHV measurements conducted on the soil samples collected ranged from non-detect to 10 parts per million (ppm). The results of the field CHV analyses are summarized on the borehole logs in Appendix B.

The CHV in the monitoring wells was non-detect during the groundwater program.

7.1.3 Groundwater Monitoring

None of the 7 monitoring wells exhibited indications of non-aqueous phase liquids. The recorded groundwater levels ranged from 1.33 to 6.22 m below top of casing. The groundwater elevations ranged from 225.414 to 230.576 metres above sea level (m asl). The groundwater elevation measurements are presented in Table 2. Based on the measured groundwater elevations, the direction of shallow groundwater at the Site appears to flow to the northeast in Parcel A and to the northwest in Parcel B, as shown in Figure 2. Note however that shallow groundwater would be expected to flow to the east towards the Red River, and it is possible that groundwater in well MW-17-03 did not fully stabilize when monitored in early November, thereby appearing to indicate a westward flow direction in Parcel B. An additional round of monitoring would be required to confirm direction of groundwater flow.

7.2 Laboratory Analytical Results

The results of the laboratory analyses for the soil and groundwater samples are summarized in the following sections. Copies of the analytical reports are also included in Appendix C.

7.2.1 Soil Analytical Results

Based on the field CHV measurements, soil stratigraphy, a total of 93 soil samples, including nine field duplicate soil samples were selected and submitted for laboratory analysis of BTEX, PHC F1-F4, and VOCs. A total of 33 soil samples, including three field duplicate soil samples were selected and submitted for laboratory analysis of PAHs, and total of 103 soil samples, were selected and submitted for laboratory analysis of metals. The grain size analysis indicated that the soil was predominantly fine-grained texture. One composite soil sample was collected from the onsite soil bags containing auger cuttings for analysis of landfill acceptance parameters.

7.2.1.1 Petroleum Hydrocarbons

Based on the results of the laboratory analyses, the soil samples that exceeded the applied SQG for BTEX, PHC fractions F1-F4 are summarized in the following table:

Table 7-1: Summary of Soil Samples Exceeding Applied Soil Quality Guidelines – Petroleum Hydrocarbons

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
BH22-08	Parcel B - centre	1.4 - 1.5	PHC F2 PHC F3	3,890 19,800	1,000 5,000
BH22-25	Parcel A - north	2.6 - 2.7	PHC F3	6,380	5,000
MW22-03	Parcel A - northwest	1.8 - 1.9	PHC F3	6,830	5,000
		1.8 - 1.9 (duplicate)	PHC F3	11,800	5,000
		2.6 - 2.7	PHC F3	5,880	5,000
MW22-04	Parcel A - centre	2.9 - 3.0	PHC F3	5,660	5,000

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10-5 incremental risk

Concentrations of all other analyzed PHC parameters submitted for laboratory analyses were reported to be less than the applied SQGs or less than the laboratory reportable detection limits (RDL).

The laboratory analytical results for PHCs are presented in Table 3. Figure 3a and Figure 3b summarize the borehole locations and soil samples exceeding applied SQGs.

7.2.1.2 Polycyclic Aromatic Hydrocarbons

Based on the results of the laboratory analyses, the soil samples that exceeded the applied SQG for PAHs are summarized in the following table:

Table 7-2: Summary of Soil Samples Exceeding Applied Soil Quality Guidelines – Polycyclic Aromatic Hydrocarbons

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
BH22-08	Parcel B - centre	1.4 - 1.5	B[a]P TPE	15	5.3
			Acenaphthylene	0.366	0.17
			Benz(a)anthracene	15.2	10
			Benzo(a)pyrene	12.5	1.4
			Benzo(b+j)fluoranthene	16.1	10
			Chrysene	13.5	9.6
MW22-04	Parcel A - centre	2.9 - 3.0	B[a]P TPE	6.91	5.3
			Benzo(a)pyrene	4.69	1.4

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Fine grained Soil, Human Health Guidelines 10-5 incremental risk

B[a]P TPE = Benzo(a)pyrene total potency equivalents

Concentrations of all other analyzed PAH parameters submitted for laboratory analyses were reported to be less than the applied SQGs or less than the laboratory RDL.

The laboratory analytical results for PHCs are presented in Table 4. Figure 3a and Figure 3b summarize the borehole locations and soil samples exceeding applied SQGs.

7.2.1.3 Metals and Salinity

Based on the results of the laboratory analyses, the soil samples that exceeded the applied SQG for metals and electrical conductivity are summarized in the following table:

Table 7-3: Summary of Soil Samples Exceeding Applied Soil Quality Guidelines – Metals

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
BH22-08	Parcel B - centre	1.4 - 1.5	Chromium	513	87
			Copper	302	91
			Zinc	722	410
BH22-25	Parcel A - north	2.6 - 2.7	Arsenic	14.9	12
			Chromium	1,550	87
			Copper	511	91
			Lead	675	600
			Nickel	92.5	89
			Silver	45.7	40
			Zinc	1,710	410
MW22-03	Parcel A - northwest	1.8 - 1.9	Arsenic	18.6	12
			Cadmium	22.2	22
			Chromium	1,910	87
			Copper	551	91
			Lead	677	600
			Nickel	107	89
			Silver	56.4	40
			Zinc	1,710	410
		1.8 - 1.9 (duplicate)	Arsenic	13.6	12
			Chromium	1,120	87
			Copper	339	91
			Zinc	1,110	410
		2.6 - 2.7	Arsenic	14.2	12
			Chromium	959	87
			Copper	293	91
			Zinc	964	410
		4.2 - 4.3	Chromium	91.1	87
MW22-04	Parcel A - centre	2.9 - 3.0	Chromium	485	87
			Copper	356	91
			Zinc	970	410
BH22-05	Parcel B – north, centre	1.5 - 1.6	Chromium	138	87
BH22-15	Parcel A - centre	2.4 - 2.5	Chromium	132	87
BH22-16	Parcel A - centre	2.9 - 3.0	Arsenic	13.3	12
			Chromium	781	87
			Copper	279	91
			Zinc	969	410
BH22-18	Parcel A - centre	2.4 - 2.5	Chromium	144	87
MW22-05	Parcel A – east, centre	2.0 - 2.1	Chromium	90.7	87
BH22-14	Parcel B – northeast	0.9-1.0	Electrical Conductivity	5.58 [b]	4 [b]

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, fine graine
[b] Electrical Conductivity results in dS/m - deciSiemens per metre

Concentrations of all other analyzed metals parameters submitted for laboratory analyses were reported to be less than the applied SQGs or less than the laboratory RDL.

The laboratory analytical results for PHCs are presented in Table 6. Figure 3a and Figure 3b summarize the borehole locations and soil samples exceeding applied SQGs.

7.2.1.4 Volatile Organic Parameters

Concentrations of all VOC parameters submitted for laboratory analyses were reported to be less than the applied SQGs, with the majority of results less than the laboratory RDL.

7.2.1.5 Waste Characterization

The composite soil sample collected from the onsite soil bags containing auger cuttings had concentrations below waste disposal ground acceptance criteria or less than the laboratory RDL. The onsite soil bags can be disposed of at an appropriate landfill that accepts non-impacted soil.

The laboratory analytical results for waste characterization are presented in Table 8.

7.2.2 Groundwater Analytical Results

Groundwater samples, one from each of the five newly installed monitoring wells (MW22-01 to MW22-05) and two from existing wells (MW17-03 and MW18-04), were collected during the monitoring and sampling event along with a field duplicate, a field blank and a trip blank. The groundwater samples were submitted for laboratory analysis of BTEX, PHC F1-F4, VOCs, PAHs and dissolved metals. Monitoring well MW17-06 could not be sampled because there was no water in the well.

7.2.2.1 Petroleum Hydrocarbons

One groundwater well had a groundwater sample that had PHC parameters above GQGs. The groundwater sample collected from monitoring well MW22-04 and duplicate (MW22-10) had concentrations of PHC F3 (1.52 mg/L and 1.03 mg/L) above GQGs (0.500 mg/L).

The laboratory groundwater analytical results for PHCs are presented on the attached Table 9. Figure 4 shows the location of the impacted monitoring well and a copy of the laboratory certificate of analysis is included in Appendix C.

7.2.2.2 Polycyclic Aromatic Hydrocarbons

Concentrations of PAHs in groundwater samples collected from all monitoring wells were below the applied GQGs with the majority below laboratory RDLs. The groundwater analytical results for PAHs are presented on the attached Table 10. A copy of the laboratory certificate of analysis is included in Appendix C.

7.2.2.3 Volatile Organic Carbons

Concentrations of VOCs in groundwater samples collected from all monitoring wells were below the applied GQGs and below laboratory RDLs.

The groundwater analytical results for PAHs are presented on the attached Table 11. A copy of the laboratory certificate of analysis is included in Appendix C.

7.2.2.4 Dissolved Metals

Concentrations of metals in groundwater samples collected from all monitoring wells were below the applied GQGs or less than laboratory RDLs.

The groundwater analytical results for dissolved metals are presented on the attached Table 12. A copy of the laboratory certificate of analysis is included in Appendix C.

7.3 Quality Assurance and Quality Control

7.3.1 Duplicate Analyses

7.3.1.1 Soil Duplicates

Nine duplicate soil samples were collected from the 30 drilled boreholes and analyzed for the following parameters: BTEX, PHC F1-F4, VOCs and metals.

Where calculable, the RPD values for the duplicate soil samples were mostly within the acceptable primary alert and alternative alert criteria. The exceptions were BH22-21-SS02 (its duplicate BH22-21-SS04) and BH22-25-SS03 (its duplicate BH22-25-SS05) which were above primary alert criteria and alternative alert criterion for metal parameters (calcium for BH22-21-SS02/ BH22-21-SS04, and antimony, bismuth, cadmium, chromium, copper, lead, molybdenum, phosphorus, potassium, selenium, silver, sulfur, tin and zinc for BH22-25-SS03/ BH22-25-SS05). BH22-25-SS03 had concentrations of chromium above SQGs and its duplicate had concentrations of arsenic, chromium, copper, lead, nickel, silver and zinc above SQGs. The variation in the concentrations is likely attributed to the unhomogenized sample and matrix variability. Heterogeneity arises from the soil textural and contaminant distribution. The reported impacts for the duplicate sample are considered applicable to the borehole and laboratory results are considered reliable.

7.3.1.2 Groundwater Duplicates

During the groundwater program, one field duplicate sample was collected (MW22-04 and duplicate MW22-10) and analyzed for the following parameters: BTEX, PHC F1- F4, PAHs and VOCs. The RPD values for the duplicate groundwater samples were within the acceptable primary and alternate alert criteria aside for dissolved metals parameters: dissolved cadmium, dissolved copper and dissolved zinc.

All other RPD values for the duplicate groundwater samples were within the acceptable primary and alternate alert criteria.

The RPD calculations for the field duplicate groundwater samples and the acceptable alert criteria are presented in **Table 17**.

7.3.2 Trip Blank and Field Blank

A groundwater trip blank and field blank were submitted for analysis of BTEX, PHC F1-F4, VOCs, dissolved metals and PAHs. The concentrations of the analyzed parameters in the groundwater blanks were below the RDLs. The results are presented in Table 18.

7.3.3 Laboratory Quality Assurance and Quality Control

Laboratory quality assurance testing, such as matrix spike, spiked blanks, method blanks and RPD were within acceptable laboratory limits for soil and groundwater analyses. Further information on these results is provided in **Appendix C**.

In summary, the results of the QA/QC analysis indicated no significant QA/QC issues that would affect the overall results of this report. The data collected during the investigations are considered reliable.

8. Discussion

Based on the findings of the current investigation and the available historical information, the following interpretation is provided.

8.1 Soil Conditions

During the Phase II ESA work completed in October and November 2022, PHC, PAH or metals impacts were identified in nine boreholes extending from 1.4 m bgs to depths of approximately 3.0 m bgs with limited horizontal delineation. Vertical delineation has been established in all impacted boreholes, except for two – BH22-25 and MW22-03, both located in the northwest portion of Parcel A. BH22-25 reported metals and PHC F3 impacts at 2.6 – 2.7 m bgs, and MW22-03 had metals impacts at 4.2 – 4.3 m bgs. Considering the decrease in number of parameter exceedances and concentrations between samples at 2.6 – 2.7 m bgs and 4.2 – 4.3 m bgs in MW22-03, delineation could likely be reached at 5.0 m bgs in this borehole. In the seven boreholes where vertical delineation has been achieved, non impacted soil is reached at depths between approximately 3.0 m to 4.0 m bgs. In Parcel A, impacted boreholes are located within a historical lagoon or settling pond that was present in the 1959 air photo for the Site, which may have contributed to the soil impacts. Figure 3b shows the location of the boreholes overtop of the 1959 air photo outlining the location of historical infrastructure on Site. Figure 3c shows the lagoons at a larger scale overlain on a recent air photo.

Previous environmental work completed in 2017 and 2018 identified PHC, VOC (TCE) and metals soil impacts on the west side of Parcel A near the rail line at depths of 2.5 and 2.9 - 3.0 m bgs. Soil samples (BH22-15 - BH22-18, BH22-20) were collected in 2022 to confirm and delineate the impacts previously identified. Soil samples from this area had detections of PHC and VOC in 2022, however, no exceedances were reported for these parameters. The PHC and VOC may have migrated or naturally attenuated over the past five to six years. Metals (chromium, arsenic, copper and zinc) impacts, however, were confirmed in the area at depths of 2.4 – 3.0 m bgs. Horizontal delineation has not been achieved in Parcel A.

All of the boreholes in Parcel A with impacted soil samples were located within the boundaries of historical lagoons which have since been filled in. Seven of 13 boreholes located within the historical lagoon footprints showed concentrations exceeding soil quality guidelines. The extent of impacted soils within the lagoon footprints is not defined at this time due to the size of the lagoon complex. A Phase III ESA would be required to determine the extent of impacted soils. The presence of these impacted soils must be taken into account when planning construction work in the area as the soil will require specific handling and disposal specifications.

Within Parcel B, PHC, PAH and/or metals impacts were reported in BH22-05 and BH22-08, located on the north and south side respectively of the road in the centre of the Parcel. Impacts were reported at depths of 1.4 – 1.6 m bgs, with non impacted soil reported at approximately 3.0 m bgs. Vertical delineation has been established and horizontal delineation has been achieved to the east, west and south, but not to the north. It should be noted, that although horizontal delineation has been achieved in Parcel B (except to the north), the nearest boreholes providing clean boundaries are located approximately 50 m away, so a more precise delineation is recommended to estimate impacted soil volumes.

BH22-14 had electrical conductivity (5.58 dS/m) reported above SQGs (4 dS/m) for the soil sample collected at 0.9 – 1.0 m bgs. All other salinity parameters were reported below SQGs and due to the depth of the soil sample and the fact that it is likely outside of the grass rootzone, this exceedance is not considered a concern and does not require further investigation.

The composite surface soil samples collected from the proposed construction laydown area and staging area were below SQGs.

The composite soil sample collected from the onsite soil bags containing auger cuttings had concentrations below waste disposal ground acceptance criteria and can be disposed of at an appropriate landfill that accepts non-impacted soil.

8.2 Groundwater Conditions

Groundwater levels ranged from 1.33 to 6.22 m below top of casing in November 2022. The groundwater elevations ranged from 225.414 to 230.576 metres above sea level. Based on the measured groundwater elevations, the direction of shallow groundwater at the Site appears to flow to the northeast in Parcel A and to the northwest in Parcel B. Seasonal precipitation changes may affect groundwater conditions during subsequent monitoring events. None of the seven monitoring wells exhibited indications of non-aqueous phase liquids.

The groundwater sample collected from monitoring well MW22-04 and duplicate (MW22-10) had concentrations of PHC F3 (1.52 mg/L and 1.03 mg/L) above GQGs (0.500 mg/L). Concentrations of PHC F3 exceeding SQGs were reported in soil samples from this borehole at 2.9 - 3.0 m bgs, within the well screen zone.

No other concentrations of PHC, PAH, VOC or dissolved metals above GQGs were reported for the remaining sampled wells.

Figure 4 illustrates the monitoring well locations and the location of where the groundwater impact has been identified.

9. Conclusions

The Phase II ESA conducted at the Site identified PHC, PAH and metals parameters in soil and groundwater (PHCs) at concentrations above the applied EQGs. In most areas across the Site, impacts did not extend below 3.0 – 4.0 m bgs. However, the deepest impacted location (MW22-03) shows chromium impacts to 4.3 m bgs, with no clean depth established. Soil impacts identified in Parcel A appear to align with what appears to be historical lagoons or settling ponds visible in the 1959 air photo.

Within Parcel B, PHC, PAH and/or metals impacts did not appear to extend below 3.0 m bgs and horizontal delineation has been achieved in all directions, except to the north. It should be noted, that although horizontal delineation has been achieved in Parcel B to the east, south and west, the nearest boreholes providing clean boundaries are located approximately 50 m away, so a more precise delineation is recommended to estimate impacted soil volumes.

Soil management will be required during construction of the Biosolids Facilities Project. It is recommended that a Construction Environmental Management Plan be prepared during the tendering process. It is also recommended that a Phase III ESA be completed to delineate impacted soil to be able to provide a more accurate estimate of location and volume of impacted soil at the Site and to assist in the preparation of a Remedial Action Plan. In particular, additional investigation is recommended in areas where planned construction coincides with the location of historical lagoons in Parcel A.

Given the presence of soil and groundwater impacts, a copy of this report should be submitted to the Director of Manitoba Environment, Climate and Parks (MECP) under *Section 3.1, Part 2 of the Contaminated Sites Remediation Act*.

10. References

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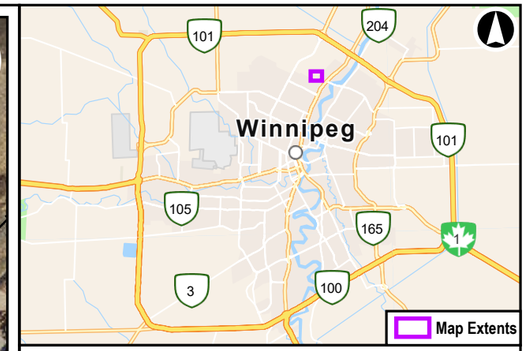
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Figures





Legend

- Borehole Location
- Monitoring Well Location
- Construction Laydown Area Composite Sample Location
- Staging Area Composite Sample Location
- Railway
- Existing Sewer Line
- Existing Underground Electrical

Site Features

- Proposed Facilities
- Proposed Detention Pond
- Proposed Potable Water
- Proposed Land Drainage Sewer
- Proposed Digester Gas Rail (CPR) Crossing
- Proposed Utilidor Rail (CPR) Crossing
- Parcel Boundary

Notes:

* Borehole/Monitoring Well Installed by SNC in 2017/2018

PHASE II ENVIRONMENTAL SITE ASSESSMENT NEWPCC UPGRADE: BIOSOLIDS FACILITIES 2230 MAIN STREET, WINNIPEG, MANITOBA

SITE PLAN

0 40 80 120 160

Meters

Datum: NAD 1983 UTM Zone 14N

Feb, 2023	PN#: 60660698	1:3,000 * when printed 11"x17"

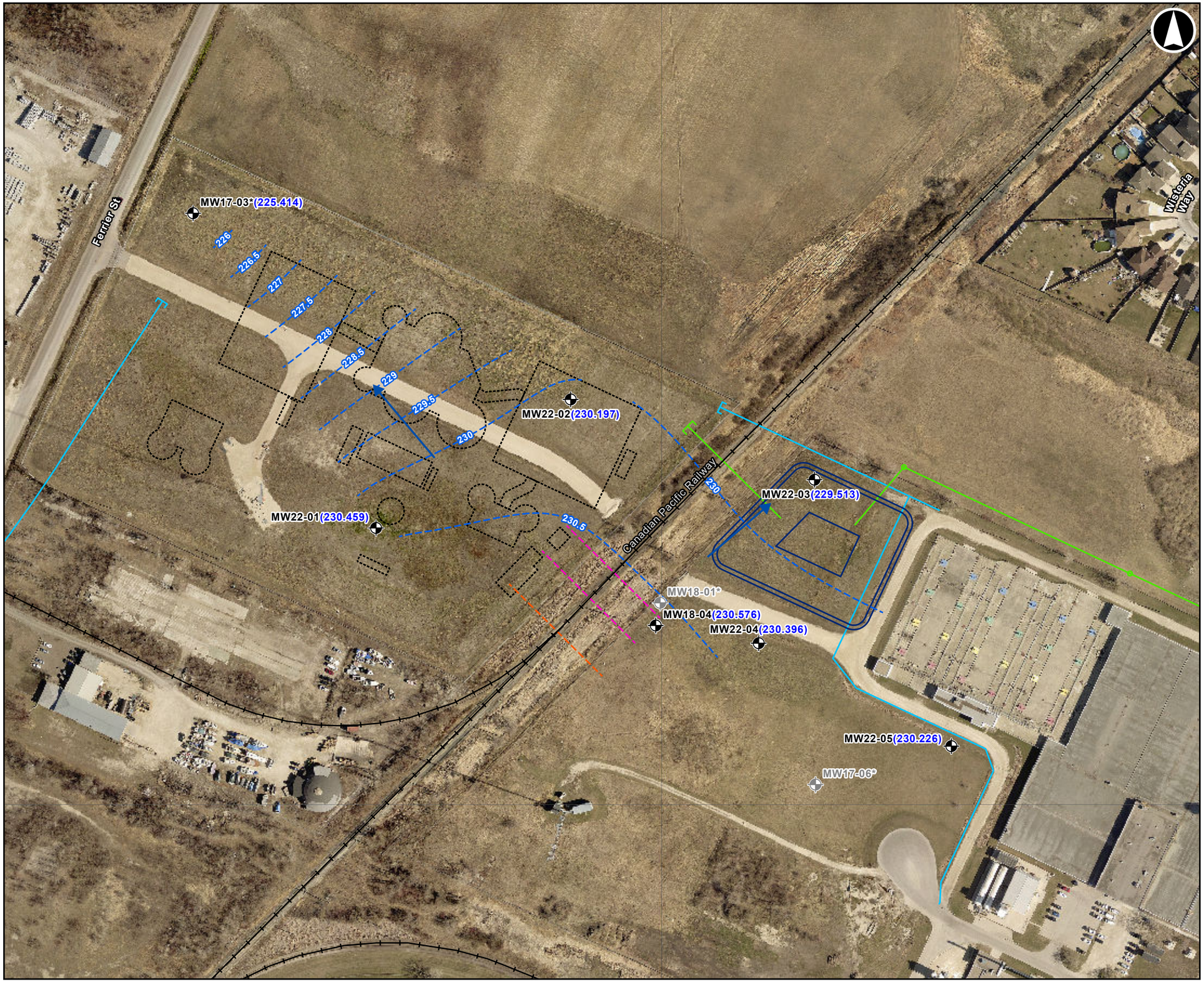
Figure 1

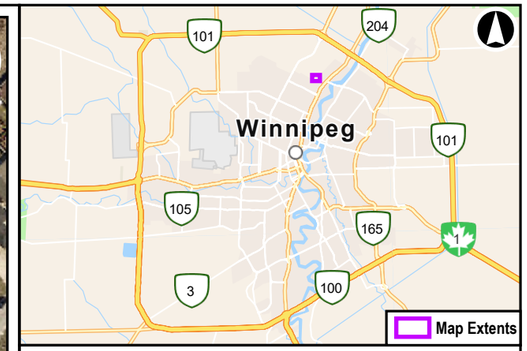
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Data Sources: NRCan - CanVec
Province of Manitoba, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Legend

- Monitoring Well Location
- Monitoring Well Location Dry and not included in Contours
- Railway
- Groundwater Elevation Contour
- Inferred Groundwater Flow Direction
- (229.51) Groundwater Elevation

Site Features

- Proposed Facilities
- Proposed Detention Pond
- Proposed Potable Water
- Proposed Land Drainage Sewer
- Proposed Digester Gas Rail (CPR) Crossing
- Proposed Utilidor Rail (CPR) Crossing

Notes:
* Monitoring Well Installed by SNC in 2017/2018

PHASE II ENVIRONMENTAL SITE ASSESSMENT NEWPCC UPGRADE: BIOSOLIDS FACILITIES 2230 MAIN STREET, WINNIPEG, MANITOBA

SHALLOW GROUNDWATER CONTOURS – NOVEMBER 2022

0 30 60 90 120
Meters

Datum: NAD 1983 UTM Zone 14N

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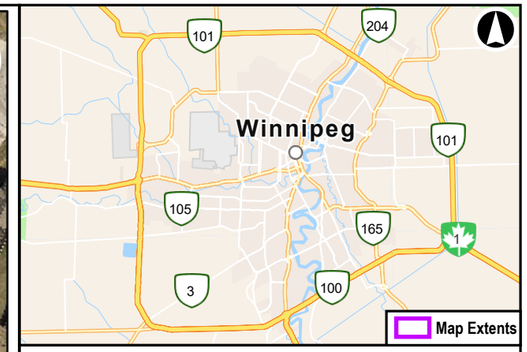
Figure 2

Data Sources: NRCan - CanVec
Province of Manitoba, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Legend

- Borehole Location
- Monitoring Well Location
- Below Applicable Guideline
- Exceeds Applicable Guideline
- Railway

Site Features

- Proposed Facilities
- Proposed Detention Pond
- Proposed Potable Water
- Proposed Land Drainage Sewer
- Proposed Digester Gas Rail (CPR) Crossing
- Proposed Utilidor Rail (CPR) Crossing

Notes:

* Borehole/Monitoring Well Installed by SNC in 2017/2018

Sample ID	BH22-08 (mg/kg)																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	Cu	Zn
Results	01-Nov-2022	0.8 - 0.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	74.7	43.6	161
		1.4 - 1.5	0.0098	0.215	0.039	0.159	114	**3,890**	**19,800**	5,970	**15**	**0.366**	**15.2**	**12.5**	**16.1**	**13.5**	**513**	**302**	**722**
		3.0 - 3.1	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	51.0	31.4	78.7

Sample ID	BH22-25 (mg/kg)																
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cr	Cu	Pb	Ni	Ag	Zn
Results	05-Nov-2022	0.2 - 0.3	NA	NA	NA	NA	NA	NA	NA	NA	5.46	41.3	29.1	15.9	30.8	0.25	64.6
		1.8 - 1.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.59	50.9	31.6	15.6	41.5	0.18	86.9
		2.6 - 2.7	<0.0050	0.071	0.017	<0.071	<10	249	4,320	1,560	9.51	**119**	59.8	69.4	49.4	2.13	187
		2.6 - 2.7 (duplicate)	<0.0050	0.070	0.019	<0.071	<10	499	**6,380**	2,250	**14.9**	**1550**	**511**	**675**	**92.5**	**45.7**	**1,710**

Sample ID	MW22-03 (mg/kg)																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cd	Cr	Cu	Pb	Ni	Ag	Zn
Results	05-Nov-2022	1.80	<0.0050	<0.050	<0.015	<0.071	<10	257	**6,830**	2,680	**18.6**	**22.2**	**1910**	**551**	**677**	**107**	**56.4**	**1,710**
		1.80 (duplicate)	<0.0050	<0.050	<0.015	<0.071	<10	383	**11,800**	4,610	**13.6**	14.0	**1120**	**339**	426	78.7	32.4	**1,110**
		2.6 - 2.7	<0.0050	<0.050	<0.015	<0.071	<10	257	**5,880**	2,200	**14.2**	12.2	**959**	**293**	371	73.3	26.6	**964**
		4.2 - 4.3	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.97	0.313	**91.1**	57.4	17.9	74.2	0.20	142

Sample ID	MW22-04 (mg/kg)														
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Benzo(a)p	Cr	Cu	Zn
Results	04-Nov-2022	1.2 - 1.3	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	65.7	50.0	176
		2.9 - 3.0	0.0128	0.343	0.038	0.143	<10	174	**5,660**	2,410	**6.91**	**4.69**	**485**	**356**	**970**
		3.7 - 3.8	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	17.3	10.4	20.9

Sample ID	BH22-15 (mg/kg)			
Parameter	Date	Depth (m)	Cr	
Results	31-Oct-2022	0.2 - 0.3	62.1	
		2.4 - 2.5	**132**	
		3.0 - 3.1	16.8	
		3.0 - 3.1 (duplicate)	15.2	

Sample ID	BH22-05 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	04-Nov-2022	1.5 - 1.6	**138**
		3.3 - 3.4	13.4
		4.5 - 4.6 (duplicate)	17.1
		4.5 - 4.6	22

Sample ID	BH22-16 (mg/kg)					
Parameter	Date	Depth (m)	As	Cr	Cu	Zn
Results	04-Nov-2022	1.2 - 1.3	11.5	42.4	37.2	91.7
		2.9 - 3.0	**13.3**	**781**	**279**	**969**
		4.5 - 4.6	5.04	36.5	24.1	59.0

Sample ID	BH22-18 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	06-Nov-2022	1.1 - 1.2	62.4
		2.4 - 2.5	79.8
		2.4 - 2.5 (duplicate)	**144**
		3.0 - 3.1	16.1

Sample ID	BH22-05 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	04-Nov-2022	1.1-1.2	48.6
		2.0-2.1	**90.7**
		3.7-3.8	28.1

Sample ID	BH22-14 (mg/kg)		
Parameter	Date	Depth (m)	Conductivity
Results	04-Nov-2022	0.9 - 1.0	**5.58**

NOTES:

B - Benzene; T - Toluene; E - Ethylbenzene; X - Xylenes; F1 - PHC fraction F1; F2 - PHC fraction F2; F3 - PHC fraction F3; F4 - PHC Fraction F4; PAH - Polycyclic Aromatic Hydrocarbons

Abbreviations: Acenaph - Acenaphthylene; Benz(a) - Benz(a)anthracene; Benzo(a)p - Benzo(a)pyrene; Benzo(b+j) - Benzo(b+j)fluoranthene; Cr - Chromium; As - Arsenic; Ag - Silver; Cd - Cadmium; Cu - Copper; Pb - Lead; Zn - Zinc

Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (2014) - Industrial Land Use, Fine Grained Soils

CCME Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial Land Use, Fine Grain Soil

< Denotes concentration less than reportable detection limit

mg/kg Unit for all soil quality guideline criteria and analytical results is milligrams per kilogram unless otherwise stated

dS/m deciSiemens per metre

XX Red and bold analytical results exceeded applied standards

Environmental Quality Guideline	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	As	Cu	Ni	Pb	Ag	Zn	Cd	Conductivity
Suface Soil ≤ 1.5 mbgs	2.8	330	430	230	320	260	2,500	6,600	5.3	0.17	10	1.4	10	9.6	87	12	91	89	600	40	410	22	4 dS/m
Subsoil > 1.5 mbgs	2.9	660	860	460	800	1,000	5,000	10,000	5.3	0.17	10	1.4	10	9.6	87	12	91	89	600	40	410	22	4 dS/m

PHASE II ENVIRONMENTAL SITE ASSESSMENT NEWPCC UPGRADE: BIOSOLIDS FACILITIES 2230 MAIN STREET, WINNIPEG, MANITOBA

SOIL SAMPLE LOCATIONS AND PETROLEUM HYDROCARBON, POLYCYCLIC AROMATIC HYDROCARBON, METALS AND CONDUCTIVITY IMPACTS

0 30 60 90 120

Meters

Datum: NAD 1983 UTM Zone 14N

Feb, 2023 | PN#: 60660698 | 1:2,000 * when printed 11"x17"

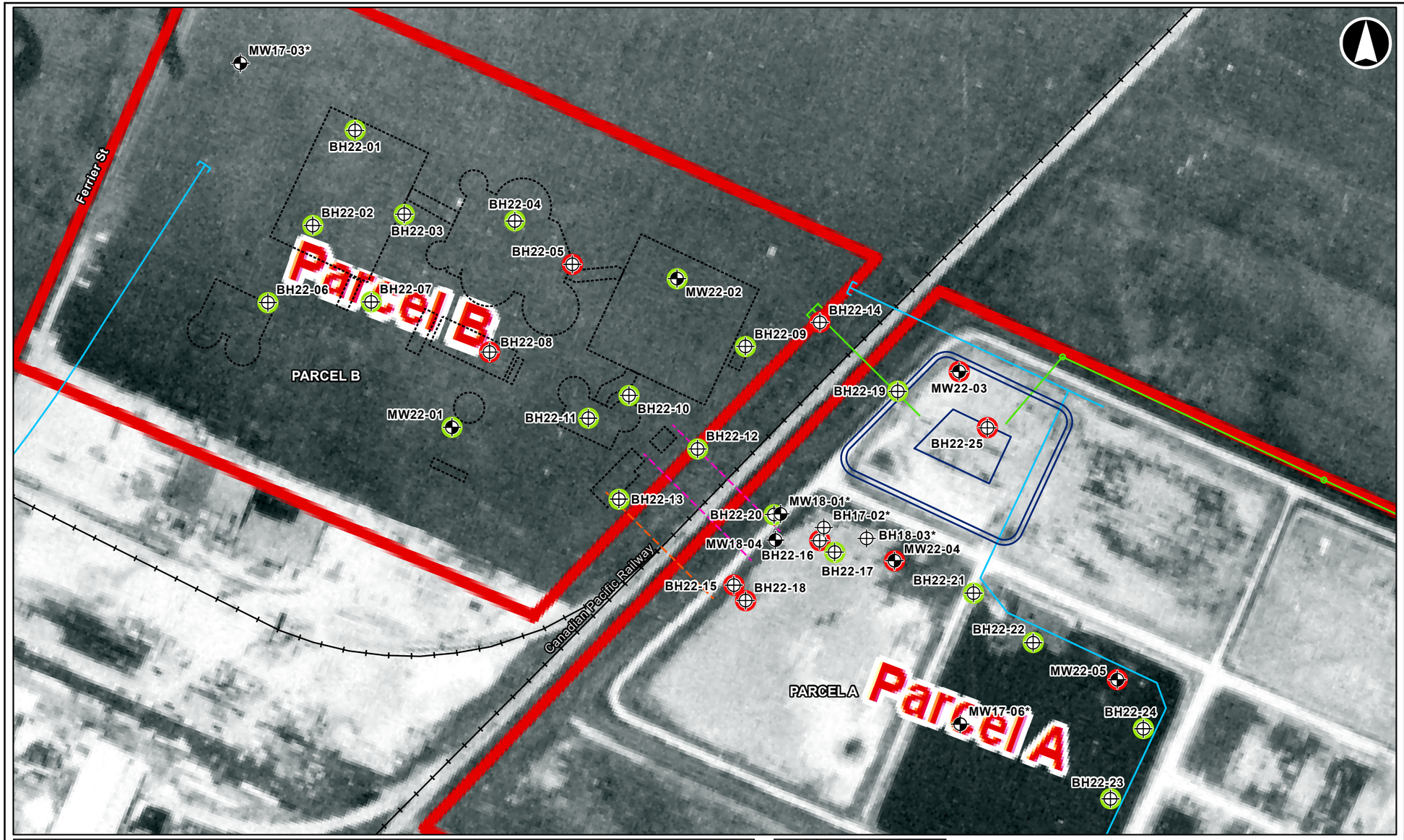
Figure 3A

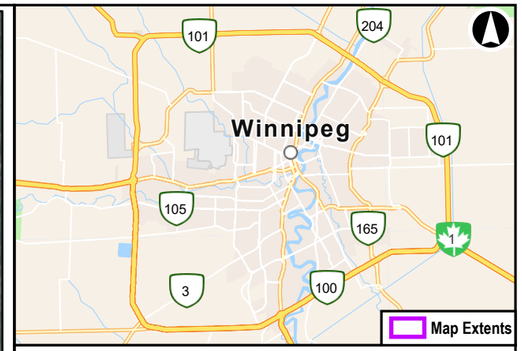
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Data Sources: NRCan - CanVec
Province of Manitoba, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Legend

- Borehole Location
- Monitoring Well Location
- Below Applicable Guideline
- Exceeds Applicable Guideline
- Railway

Site Features

- Proposed Facilities
- Proposed Detention Pond
- Proposed Potable Water
- Proposed Land Drainage Sewer
- Proposed Digester Gas Rail (CPR) Crossing
- Proposed Utilidor Rail (CPR) Crossing

Notes:

* Borehole/Monitoring Well Installed by SNC in 2017/2018

Sample ID	BH22-08 (mg/kg)																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	Cu	Zn
Results	01-Nov-2022	0.8 - 0.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	74.7	43.6	161
		1.4 - 1.5	0.0098	0.215	0.039	0.159	114	**3,890**	**19,800**	5,970	**15**	**0.366**	**15.2**	**12.5**	**16.1**	**13.5**	**513**	**302**	**722**
		3.0 - 3.1	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	51.0	31.4	78.7

Sample ID	BH22-25 (mg/kg)															
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cr	Cu	Pb	Ni	Ag	Zn
Results	05-Nov-2022	0.2 - 0.3	NA	NA	NA	NA	NA	NA	NA	NA	5.46	41.3	29.1	15.9	30.8	0.25	64.6
		1.8 - 1.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.59	50.9	31.6	15.6	41.5	0.18	86.9
		2.6 - 2.7	<0.0050	0.071	0.017	<0.071	<10	249	4,320	1,560	9.51	**119**	59.8	69.4	49.4	2.13	187
		2.6 - 2.7 (duplicate)	<0.0050	0.070	0.019	<0.071	<10	499	**6,380**	2,250	**14.9**	**1550**	**511**	**675**	**92.5**	**45.7**	**1,710**

Sample ID	MW22-03 (mg/kg)																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cd	Cr	Cu	Pb	Ni	Ag	Zn
Results	05-Nov-2022	1.80	<0.0050	<0.050	<0.015	<0.071	<10	257	**6,830**	2,680	**18.6**	**22.2**	**1910**	**551**	**677**	**107**	**56.4**	**1,710**
		1.80 (duplicate)	<0.0050	<0.050	<0.015	<0.071	<10	383	**11,800**	4,610	**13.6**	14.0	**1120**	**339**	426	78.7	32.4	**1,110**
		2.6 - 2.7	<0.0050	<0.050	<0.015	<0.071	<10	257	**5,880**	2,200	**14.2**	12.2	**959**	**293**	371	73.3	26.6	**964**
		4.2 - 4.3	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.97	0.313	**91.1**	57.4	17.9	74.2	0.20	142

Sample ID	MW22-04 (mg/kg)														
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Benzo(a)p	Cr	Cu	Zn
Results	04-Nov-2022	1.2 - 1.3	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	65.7	50.0	176
		2.9 - 3.0	0.0128	0.343	0.038	0.143	<10	174	**5,660**	2,410	**6.91**	**4.69**	**485**	**356**	**970**
		3.7 - 3.8	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	17.3	10.4	20.9

Sample ID	BH22-15 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	31-Oct-2022	0.2 - 0.3	62.1
		2.4 - 2.5	**132**
		3.0 - 3.1	16.8
		3.0 - 3.1 (duplicate)	15.2

Sample ID	BH22-05 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	04-Nov-2022	1.5 - 1.6	**138**
		3.3 - 3.4	13.4
		4.5 - 4.6 (duplicate)	17.1
		4.5 - 4.6	22

Sample ID	BH22-16 (mg/kg)					
Parameter	Date	Depth (m)	As	Cr	Cu	Zn
Results	04-Nov-2022	1.2 - 1.3	11.5	42.4	37.2	91.7
		2.9 - 3.0	**13.3**	**781**	**279**	**969**
		4.5 - 4.6	5.04	36.5	24.1	59.0

Sample ID	BH22-18 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	06-Nov-2022	1.1 - 1.2	62.4
		2.4 - 2.5	79.8
		2.4 - 2.5 (duplicate)	**144**
		3.0 - 3.1	16.1

Sample ID	BH22-05 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	04-Nov-2022	1.1-1.2	48.6
		2.0-2.1	**90.7**
		3.7-3.8	28.1

Sample ID	BH22-14 (mg/kg)		
Parameter	Date	Depth (m)	Conductivity
Results	04-Nov-2022	0.9 - 1.0	**5.58**

NOTES:

Abbreviations

B - Benzene; T - Toluene; E - Ethylbenzene; X - Xylenes; F1 - PHC fraction F1; F2 - PHC fraction F2; F3 - PHC fraction F3; F4 - PHC Fraction F4; PAH - Polycyclic Aromatic Hydrocarbons

Acenaph - Acenaphthylene; Benz(a) - Benz(a)anthracene; Benzo(a)p - Benzo(a)pyrene; Benzo(b+j) - Benzo(b+j)fluoranthene; Cr - Chromium; As - Arsenic; Ag - Silver

Cd - Cadmium; Cu - Copper; Pb - Lead; Zn - Zinc

Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (2014) - Industrial Land Use, Fine Grained Soils

CCME Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial Land Use, Fine Grain Soil

< Denotes concentration less than reportable detection limit

mg/kg Unit for all soil quality guideline criteria and analytical results is milligrams per kilogram unless otherwise stated

dS/m deciSiemens per metre

XX Red and bold analytical results exceeded applied standards

Environmental Quality Guideline	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	As	Cu	Ni	Pb	Ag	Zn	Cd	Conductivity
Suface Soil ≤ 1.5 mbgs	2.8	330	430	230	320	260	2,500	6,600	5.3	0.17	10	1.4	10	9.6	87	12	91	89	600	40	410	22	4 dS/m
Subsoil > 1.5 mbgs	2.9	660	860	460	800	1,000	5,000	10,000	5.3	0.17	10	1.4	10	9.6	87	12	91	89	600	40	410	22	4 dS/m

PHASE II ENVIRONMENTAL SITE ASSESSMENT NEWPCC UPGRADE: BIOSOLIDS FACILITIES 2230 MAIN STREET, WINNIPEG, MANITOBA

SOIL SAMPLE LOCATIONS AND PETROLEUM HYDROCARBON, POLYCYCLIC AROMATIC HYDROCARBON, METALS AND CONDUCTIVITY IMPACTS – 1959 AIR PHOTO

0 30 60 90 120

Meters

Datum: NAD 1983 UTM Zone 14N

Feb, 2023 | PN#: 60660698 | 1:2,000 * when printed 11"x17"

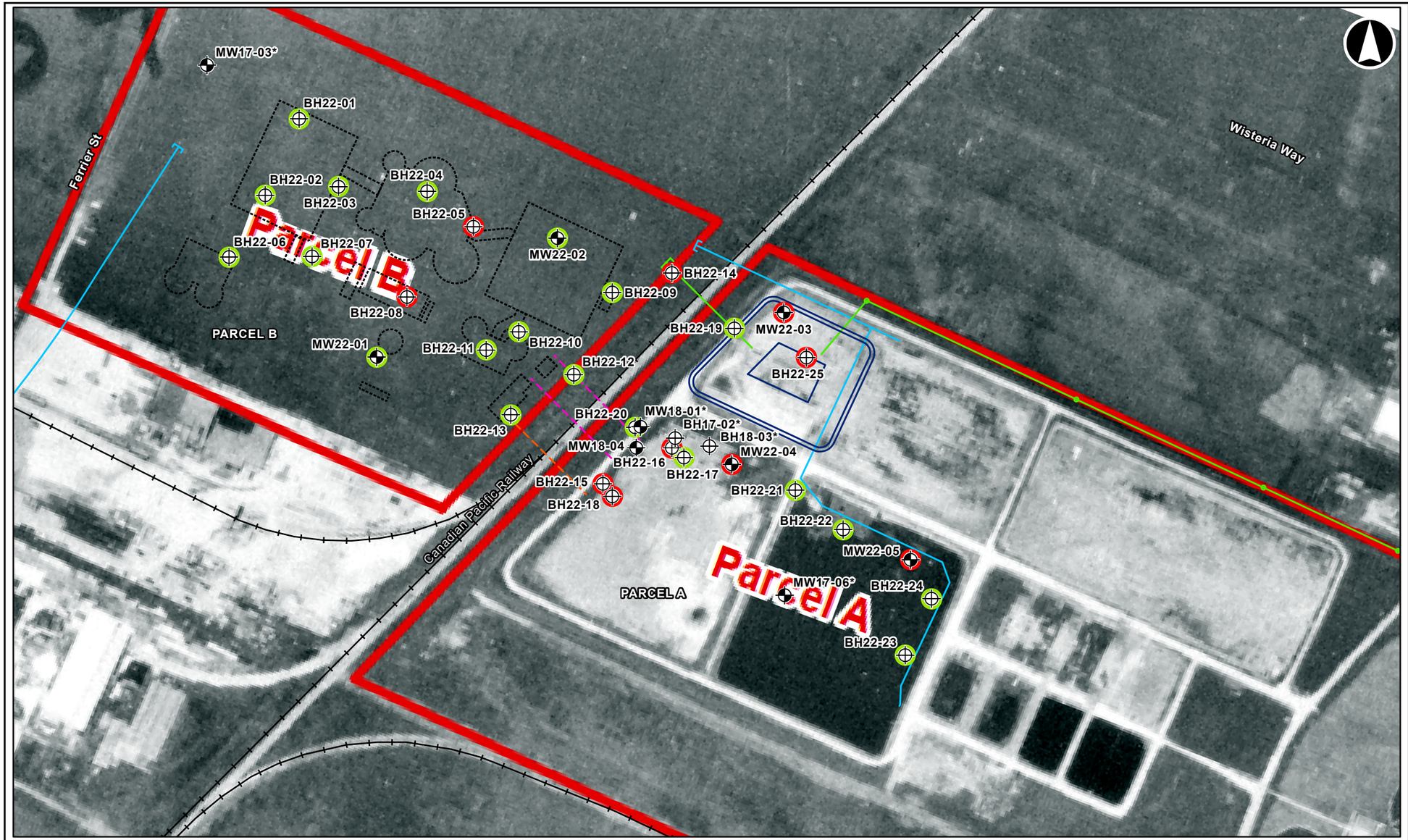
Figure 3B

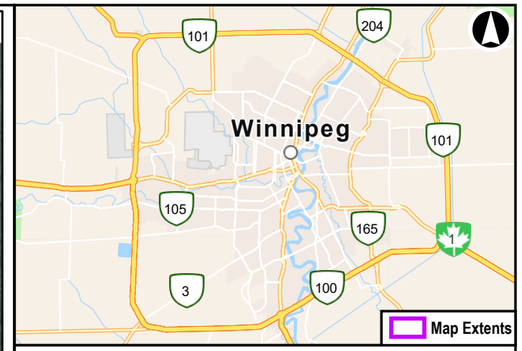
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Data Sources: NRCan - CanVec; 1959 Air Photo - Stantec
Province of Manitoba, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Legend

- Borehole Location
- Monitoring Well Location
- Borehole Location
- Monitoring Well Location
- Railway

Site Features

- Proposed Facilities
- Proposed Detention Pond
- Proposed Potable Water
- Proposed Land Drainage Sewer
- Proposed Digester Gas Rail (CPR) Crossing
- Proposed Utilidor Rail (CPR) Crossing

Notes:
* Borehole/Monitoring Well Installed by SNC in 2017/2018

Sample ID	BH22-08 (mg/kg)																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	Cu	Zn
Results	01-Nov-2022	0.8 - 0.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	74.7	43.6	161
		1.4 - 1.5	0.0098	0.215	0.039	0.159	114	3,890	19,800	5,970	15	0.366	15.2	12.5	16.1	13.5	513	302	722
		3.0 - 3.1	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	51.0	31.4	78.7

Sample ID	BH22-25 (mg/kg)																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cr	Cu	Pb	Ni	Ag	Zn	
Results	05-Nov-2022	0.2 - 0.3	NA	NA	NA	NA	NA	NA	NA	NA	5.46	41.3	29.1	15.9	30.8	0.25	64.6	
		1.8 - 1.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.59	50.9	31.6	15.6	41.5	0.18	86.9	
		2.6 - 2.7	<0.0050	0.071	0.017	<0.071	<10	249	4,320	1,560	9.51	119	59.8	69.4	49.4	2.13	187	
		2.6 - 2.7 (duplicate)	<0.0050	0.070	0.019	<0.071	<10	499	6,380	2,250	14.9	1550	511	675	92.5	45.7	1,710	

Sample ID	MW22-03 (mg/kg)																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cd	Cr	Cu	Pb	Ni	Ag	Zn
Results	05-Nov-2022	1.80	<0.0050	<0.050	<0.015	<0.071	<10	257	6,830	2,680	18.6	22.2	1910	551	677	107	56.4	1,710
		1.80 (duplicate)	<0.0050	<0.050	<0.015	<0.071	<10	383	11,800	4,610	13.6	14.0	1120	339	426	78.7	32.4	1,110
		2.6 - 2.7	<0.0050	<0.050	<0.015	<0.071	<10	257	5,880	2,200	14.2	12.2	959	293	371	73.3	26.6	964
		4.2 - 4.3	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.97	0.313	91.1	57.4	17.9	74.2	0.20	142

Sample ID	MW22-04 (mg/kg)														
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Benzo(a)p	Cr	Cu	Zn
Results	04-Nov-2022	1.2 - 1.3	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	65.7	50.0	176
		2.9 - 3.0	0.0128	0.343	0.038	0.143	<10	174	5,660	2,410	6.91	4.69	485	356	970
		3.7 - 3.8	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	17.3	10.4	20.9

Sample ID	BH22-15 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	31-Oct-2022	0.2 - 0.3	62.1
		2.4 - 2.5	132
		3.0 - 3.1	16.8
		3.0 - 3.1 (duplicate)	15.2

Sample ID	BH22-05 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	04-Nov-2022	1.5 - 1.6	138
		3.3 - 3.4	13.4
		4.5 - 4.6 (duplicate)	17.1
		4.5 - 4.6	22

Sample ID	BH22-16 (mg/kg)					
Parameter	Date	Depth (m)	As	Cr	Cu	Zn
Results	04-Nov-2022	1.2 - 1.3	11.5	42.4	37.2	91.7
		2.9 - 3.0	13.3	781	279	969
		4.5 - 4.6	5.04	36.5	24.1	59.0

Sample ID	BH22-18 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	06-Nov-2022	1.1 - 1.2	62.4
		2.4 - 2.5	79.8
		2.4 - 2.5 (duplicate)	144
		3.0 - 3.1	16.1

Sample ID	MW22-05 (mg/kg)		
Parameter	Date	Depth (m)	Cr
Results	04-Nov-2022	1.1-1.2	48.6
		2.0-2.1	90.7
		3.7-3.8	28.1

Sample ID	BH22-14 (mg/kg)		
Parameter	Date	Depth (m)	Conductivity
Results	04-Nov-2022	0.9 - 1.0	5.58

NOTES:

Abbreviations	B - Benzene; T - Toluene; E - Ethylbenzene; X - Xylenes; F1 - PHC fraction F1; F2 - PHC fraction F2; F3 - PHC fraction F3; F4 - PHC Fraction F4; PAH - Polycyclic Aromatic Hydrocarbons
	Acenaph - Acenaphthylene; Benz(a) - Benz(a)anthracene; Benzo(a)p - Benzo(a)pyrene; Benzo(b+j) - Benzo(b+j)fluoranthene; Cr - Chromium; As - Arsenic; Ag - Silver
	Cd - Cadmium; Cu - Copper; Pb - Lead; Zn - Zinc
	Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (2014) - Industrial Land Use, Fine Grained Soils
	CCME Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils
	Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial Land Use, Fine Grain Soil
<	Denotes concentration less than reportable detection limit
mg/kg	Unit for all soil quality guideline criteria and analytical results is milligrams per kilogram unless otherwise stated
dS/m	deciSiemens per metre
XX	Red and bold analytical results exceeded applied standards

Environmental Quality Guideline	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	As	Cu	Ni	Pb	Ag	Zn	Cd	Conductivity
Suface Soil ≤ 1.5 mbgs	2.8	330	430	230	320	260	2,500	6,600	5.3	0.17	10	1.4	10	9.6	87	12	91	89	600	40	410	22	4 dS/m
Subsoil > 1.5 mbgs	2.9	660	860	460	800	1,000	5,000	10,000	5.3	0.17	10	1.4	10	9.6	87	12	91	89	600	40	410	22	4 dS/m

PHASE II ENVIRONMENTAL SITE ASSESSMENT NEWPCC UPGRADE: BIOSOLIDS FACILITIES 2230 MAIN STREET, WINNIPEG, MANITOBA

SOIL SAMPLE LOCATIONS AND PETROLEUM HYDROCARBON, POLYCYCLIC AROMATIC HYDROCARBON, METALS AND CONDUCTIVITY IMPACTS – 1959 AIR PHOTO

0 40 80 120 160
Meters
Datum: NAD 1983 UTM Zone 14N

Feb, 2023 | PN#: 60660698 | 1:2,500 * when printed 11"x17"

Figure 3C

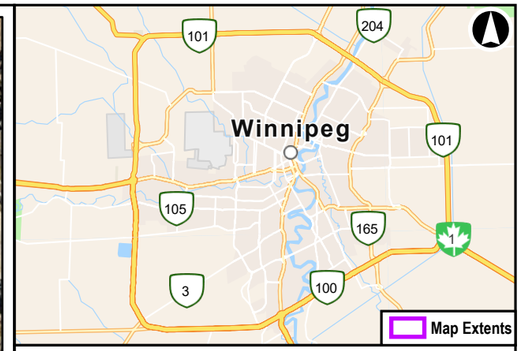
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Data Sources: NRCan - CanVec; 1959 Air Photo - Stantec
Province of Manitoba, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Legend

- Monitoring Well Location
- Below Applicable Guideline
- Exceeds Applicable Guideline
- Railway

Site Features

- Proposed Facilities
- Proposed Detention Pond
- Proposed Potable Water
- Proposed Land Drainage Sewer
- Proposed Digester Gas Rail (CPR) Crossing
- Proposed Utilidor Rail (CPR) Crossing
- Parcel Boundary

Sample ID	Date	Product Thickness (mm)	Results (mg/L)							
			B	T	E	X	F1	F2	F3	F4
MW22-04	9-Nov-2022	0	<0.00050	<0.00050	<0.00050	<0.00064	<0.10	0.16	**1.52**	0.46
	9-Nov-2022 (duplicate)	0	<0.00050	<0.00050	<0.00050	<0.00064	<0.10	0.13	**1.03**	0.28

Groundwater Quality Guideline	B	T	E	X	F1	F2	F3	F4
	19	240	150	74	9.9	3.1	0.500	0.500

NOTES:

Abbreviations: B - Benzene; T - Toluene; E - Ethylbenzene; X - Xylenes; F1 - PHC fraction F1; F2 - PHC fraction F2; F3 - PHC fraction F3; F4 - PHC Fraction F4

Federal Contaminated Sites Action Plan (FCSAP), Guidance Document on Federal Interim Groundwater Quality Guidelines for Federal Contaminated Sites (2016) - Generic Guidelines for Commercial and Industrial Land Uses, Fine Grained

Ontario Ministry of the Environment (MOE) Soil Quality Guidelines (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (All Types of Property Use)

< Denotes concentration less than reportable detection limit.

mg/L Unit for all water quality guideline criteria and analytical results is milligrams per litre

XX Red and bold analytical results exceeded applied standards

Notes:

* Monitoring Well Installed by SNC in 2017/2018

PHASE II ENVIRONMENTAL SITE ASSESSMENT NEWPCC UPGRADE: BIOSOLIDS FACILITIES 2230 MAIN STREET, WINNIPEG, MANITOBA

GROUNDWATER SAMPLE LOCATIONS AND PETROLEUM HYDROCARBON IMPACTS

0 40 80 120 160

Meters

Datum: NAD 1983 UTM Zone 14N

Jan, 2023	PN#: 60660698	1:2,500 * when printed 11"x17"

Figure 4

AECOM

Data Sources: NRCan - CanVec
Province of Manitoba, Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Tables

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 1: Soil Analytical Results - Particle Size Analysis

	Sample Location	BH22-09	BH22-12	BH22-16
	Sample Date	31-Oct-2022	2-Nov-2022	4-Nov-2022
	Sample ID	BH22-09-SS04	BH22-12-SS01	BH22-16-SS03
	Sample Depth (m bgs)	2.4-2.5	0.8-0.9	2.9-3.0
Parameter	Units			
Texture Class	N/A	Fine	Fine	Fine
Sieve - #200 (>0.075mm)	%	5.3	10.5	8.0

Notes:

mbgs: meters below ground surface

N/A: not applicable

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 2: Groundwater Monitoring Results

Monitoring Well	Date Monitored	Ground Surface Elevation (m asl)	Top of MW Elevation (m asl)	Depth to Groundwater [a] (m)	Depth to Liquid Hydrocarbon [a] (m)	Liquid Hydrocarbon Thickness (mm)	Groundwater Elevation (m asl)	Monitoring Well Vapour Concentration [b] (ppm)
MW22-01	11/9/2022	231.931	232.829	2.370	-	-	230.459	0
MW22-02	11/9/2022	231.366	232.417	2.220	-	-	230.197	0
MW22-03	11/9/2022	231.788	232.783	3.270	-	-	229.513	0
MW22-04	11/9/2022	232.616	233.526	3.130	-	-	230.396	0
MW22-05	11/9/2022	230.945	231.776	1.550			230.226	0
MW17-03	11/9/2022	230.595	231.634	6.220			225.414	0
MW17-06	11/9/2022	232.053	232.010	DRY	-	-	-	-
MW18-04	11/9/2022	232.033	231.906	1.330	-	-	230.576	0

Notes:

[a] *Measured from top of monitoring well.*

[b] *Measured using an RKI Eagle hydrocarbon vapour analyser set to "methane elimination" mode.*

m asl - metres above sea level.

"-" Value not present/obtainable.

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 3: Soil Analytical Results - Petroleum Hydrocarbons

			Sample Location	BH22-01	BH22-01	BH22-01	BH22-02	BH22-02	BH22-03	BH22-03	BH22-03	BH22-04	BH22-04	BH22-05
			Sample Date	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22
			Sample ID	BH2201-SS01	BH22-01-SS03	BH22-01-SS06	BH22-02-SS02	BH22-02-SS04	BH22-03-SS02	BH22-03-SS04	BH22-03-SS06	BH22-04-SS02	BH22-04-SS04	BH22-05-SS02
			Sample Depth (m bgs)	0.8-0.9	2.4-2.5	4.5-4.6	1.4-1.5	2.9-3.0	0.8-0.9	2.4-2.5	3.7-3.8	1.5-1.6	2.9-3.0	1.5-1.6
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units											
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.030	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.14	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	24.6	18.3	35.5	28.6	16.6	27.0	19.0	34.3	25.8	18.4	30.4

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 3: Soil Analytical Results - Petroleum Hydrocarbons

			Sample Location	BH22-05	BH22-05	BH22-05	BH22-06	BH22-06	BH22-06	BH22-07	BH22-07	BH22-07	BH22-07
			Sample Date	31-Oct-22	31-Oct-22	31-Oct-22	2-Nov-22	2-Nov-22	2-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22
			Sample ID	BH22-05-SS04	BH22-05-SS06	BH22-07-SS08 (Dup of BH22-05-SS06)	BH22-06-SS02	BH22-06-SS03	BH22-06-SS05	BH22-07-SS01	BH22-07-SS03	BH22-07-SS05	BH22-07-SS06 (Dup of BH22-07-SS05)
			Sample Depth (m bgs)	3.3-3.4	4.5-4.6	4.5-4.6	2.1-2.2	2.9-3.0	4.5-4.6	1.2-1.3	2.9-3.0	4.5-4.6	4.5-4.6
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units										
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	<50	<50	<50	59	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	22.3	17.5	26.3	23.0	17.9	30.1	14.1	24.4	20.9	22.2

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk

[b] CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 3: Soil Analytical Results - Petroleum Hydrocarbons

			Sample Location	BH22-08	BH22-08	BH22-08	BH22-09	BH22-09	BH22-09	BH22-10	BH22-10	BH22-10
			Sample Date	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22
			Sample ID	BH22-08-SS01	BH22-08-SS02	BH22-08-SS04	BH22-09-SS02	BH22-09-SS04	BH22-09-SS06	BH22-10-SS02	BH22-10-SS04	BH22-10-SS06
			Sample Depth (m bgs)	0.8-0.9	1.4-1.5	3.0-3.1	0.8-0.9	2.4-2.5	3.9-4.0	1.4-1.5	3.0-3.1	4.5-4.6
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units									
Benzene	2.8	2.9	mg/kg	<0.0050	0.0098	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	0.215	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	0.039	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	0.159	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	114	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	**3,890**	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	**19,800**	<50	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	5,970	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	23.4	40.7	25.1	28.5	19.8	35.6	25.3	18.2	35.7

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk

[b] CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 3: Soil Analytical Results - Petroleum Hydrocarbons

			Sample Location	BH22-11	BH22-11	BH22-11	BH22-12	BH22-12	BH22-12	BH22-13	BH22-13
			Sample Date	1-Nov-22	1-Nov-22	1-Nov-22	2-Nov-22	2-Nov-22	2-Nov-22	1-Nov-22	1-Nov-22
			Sample ID	BH22-11-SS01	BH22-11-SS03	BH22-11-SS05	BH22-12-SS01	BH22-12-SS03	BH22-12-SS05	BH22-13-SS02	BH22-13-SS04
			Sample Depth (m bgs)	0.8-0.9	2.4-2.5	3.9-4.0	0.8-0.9	2.4-2.5	3.7-3.8	1.4-1.5	2.9-3.0
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units								
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	21.7	20.6	22.3	30.1	19.3	34.6	29.1	22.9

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk

[b] CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

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n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 3: Soil Analytical Results - Petroleum Hydrocarbons

Sample Location				BH22-14	BH22-14	BH22-14	BH22-14	BH22-15	BH22-15	BH22-15	BH22-15	BH22-16	BH22-16	BH22-16
Sample Date				3-Nov-22	3-Nov-22	3-Nov-22	3-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22
Sample ID				BH22-14-SS01	BH22-14-SS14 (Dup of BH22-14-SS01)	BH22-14-SS03	BH22-14-SS05	BH22-15-SS02	BH22-15-SS03	BH22-15-SS06 (Dup OF BH22-15-SS03)	BH22-15-SS04	BH22-16-SS01	BH22-16-SS03	BH22-16-SS05
Sample Depth (m bgs)				0.9-1.0	0.9-1.0	2.3-2.4	3.7-3.8	2.4-2.5	3.0-3.1	3.0-3.1	3.9-4.0	1.2-1.3	2.9-3.0	4.5-4.6
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units											
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	0.0065	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	0.172	<0.050	<0.050	<0.050	<0.050	0.276	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	0.025	<0.015	<0.015	<0.015	<0.015	0.017	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	0.076	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	268	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	108	4,830	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	1,780	<50
Moisture	n/g	n/g	%	23.8	19.0	19.2	31.2	26.9	16.2	18.2	32.7	24.5	41.4	19.1

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk

[b] CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

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Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 3: Soil Analytical Results - Petroleum Hydrocarbons

			Sample Location	BH22-17	BH22-17	BH22-17	BH22-18	BH22-18	BH22-18	BH22-18	BH22-19	BH22-19	BH22-19
			Sample Date	4-Nov-22	4-Nov-22	4-Nov-22	6-Nov-22	6-Nov-22	6-Nov-22	6-Nov-22	3-Nov-22	3-Nov-22	3-Nov-22
			Sample ID	BH22-17-SS02	BH22-17-SS03	BH22-17-SS05	BH22-18-SS01	BH22-18-SS02	BH22-18-SS06 (Dup of BH22-18-SS02)	BH22-18-SS03	BH22-19-SS01	BH22-19-SS04	BH22-19-SS06
			Sample Depth (m bgs)	1.2-1.3	2.1-2.2	3.6-3.7	1.1-1.2	2.4-2.5	2.4-2.5	3.0-3.1	0.8-0.9	2.9-3.0	4.5-4.6
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units										
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	119	169	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	55	58	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	24.7	22.0	17.8	25.9	27.0	26.2	16.6	25.5	21.2	35.2

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk

[b] CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

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NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 3: Soil Analytical Results - Petroleum Hydrocarbons

			Sample Location	BH22-20	BH22-20	BH22-20	BH22-21	BH22-21	BH22-21	BH22-22	BH22-22	BH22-22	BH22-22
			Sample Date	4-Nov-22	4-Nov-22	4-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22
			Sample ID	BH22-20-SS01	BH22-20-SS04	BH22-20-SS05	BH22-21-SS02	BH22-21-SS-04 (Dup of BH22-21-SS02)	BH22-21-SS03	BH22-22-SS02	BH22-22-SS04	BH22-22-SS08 (Dup of BH22-22-SS04	BH22-22-SS06
			Sample Depth (m bgs)	0.8-0.9	2.7-2.8	3.6-3.7	2.0-2.1	2.0-2.1	2.9-3.0	1.1-1.2	2.9-3.0	2.9-3.0	4.3-4.4
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units										
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	27.5	19.4	34.5	27.2	27.5	16.7	21.2	17.6	17.4	34.1

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk

[b] CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

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Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 3: Soil Analytical Results - Petroleum Hydrocarbons

			Sample Location	BH22-23	BH22-23	BH22-23	BH22-24	BH22-24	BH22-25	BH22-25	BH22-25	MW22-01	MW22-01	MW22-01
			Sample Date	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22
			Sample ID	BH22-23-SS01	BH22-23-SS03	BH22-23-SS05	BH22-24-SS02	BH22-24-SS03	BH22-25-SS02	BH22-25-SS03	BH22-25-SS05 (Dup of BH22-25-SS03)	MW22-01-SS02	MW22-01-SS04	MW22-01-SS06
			Sample Depth (m bgs)	1.1-1.2	2.9-3.0	4.5-4.6	1.7-1.8	2.7-2.8	1.8-1.9	2.6-2.7	2.6-2.7	1.4-1.5	2.9-3.0	4.5-4.6
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units											
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.071	0.070	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.017	0.019	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	249	499	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	<50	<50	<50	4,320	**6,380**	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	1,560	2,250	<50	<50	<50
Moisture	n/g	n/g	%	24.7	19.2	35.9	22.9	17.7	25.1	32.7	39.6	27.4	23.9	20.8

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk

[b] CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 3: Soil Analytical Results - Petroleum Hydrocarbons

			Sample Location	MW22-02	MW22-02	MW22-02	MW22-03	MW22-03	MW22-03	MW22-03	MW22-04	MW22-04	MW22-04
			Sample Date	31-Oct-22	31-Oct-22	31-Oct-22	5-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22
			Sample ID	MW22-01-SS01	MW22-01-SS03	MW22-01-SS05	MW22-03-SS02	MW22-SS-06 (Dup of MW22-03-SS02)	MW22-03-SS03	MW22-03-SS05	MW22-04-SS01	MW22-04-SS03	MW22-04-SSS04
			Sample Depth (m bgs)	0.8-0.9	2.3-2.4	3.9-4.0	1.8-1.9	1.8-1.9	2.6-2.7	4.2-4.3	1.2-1.3	2.9-3.0	3.7-3.8
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units										
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0128	<0.0050
Toluene	330	660	mg/kg	<0.015	<0.015	<0.015	<0.050	<0.050	<0.050	<0.050	<0.050	0.343	<0.050
Ethylbenzene	430	860	mg/kg	<0.050	<0.050	<0.050	<0.015	<0.015	<0.015	<0.015	<0.015	0.038	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	0.143	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	257	383	257	<25	<25	174	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	**6,830**	**11,800**	**5,880**	<50	<50	**5,660**	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	2,680	4,610	2,200	<50	<50	2,410	<50
Moisture	n/g	n/g	%	20.8	21.1	34.8	40.6	46.5	35.2	22.2	29.8	41.9	16.5

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk

[b] CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 3: Soil Analytical Results - Petroleum Hydrocarbons

			Sample Location	MW22-05	MW22-05	MW2205	LANDFILL	Staging Area	Staging Area	Const.laydown
			Sample Date	4-Nov-22	4-Nov-22	4-Nov-22	5-Nov-22	3-Nov-22	3-Nov-22	3-Nov-22
			Sample ID	MW22-05-SS01	MW22-05-SS02	MW22-05-SS04	LI	ST-A1	ST-A2	C-LD
			Sample Depth (m bgs)	1.1-1.2	2.0-2.1	3.7-3.8	-	0.3	0.3	0.3
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units							
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	301	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	156	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	23.0	24.6	20.9	15.3	36.1	33.6	30.3

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk

[b] CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 4: Soil Analytical Results - Polycyclic Aromatic Hydrocarbons

			Sample Location	BH22-01	BH22-02	BH22-03	BH22-04	BH22-05	BH22-06	BH22-07	BH22-07	BH22-08	BH22-09	BH22-10	BH22-11	BH22-12	BH22-13	BH22-14	BH22-14	BH22-15	BH22-16	BH22-17
			Sample Date	31-Oct-22	1-Nov-22	31-Oct-22	31-Oct-22	31-Oct-22	1-Nov-22	1-Nov-22	1-Nov-22	11/1/2022	31-Oct-22	1-Nov-22	1-Nov-22	2-Nov-22	1-Nov-22	3-Nov-22	3-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22
			Sample ID	BH22-01-SS01	BH22-02-SS04	BH22-03-SS04	BH22-04-SS02	BH22-05-SS04	BH22-06-SS03	BH22-07-SS05	BH22-07-SS06 (Dup of BH22-07-SS05)	BH22-08-SS-02	BH22-09-SS04	BH22-10-SS02	BH22-11-SS03	BH22-12-SS01	BH22-13-SS04	BH22-14-SS01	BH22-14-SS14 (Dup of BH22-14-SS01)	BH22-15-SS02	BH22-16-SS03	BH22-17-SS03
			Sample Depth (m bgs)	0.8-0.9	2.9-3.0	2.4-2.5	1.5-1.6	3.3-3.4	2.9-3.0	4.5-4.6	4.5-4.6	1.4-1.5	2.4-2.5	1.4-1.5	2.4-2.5	0.8-0.9	2.9-3.0	0.9-1.0	0.9-1.0	2.4-2.5	2.9-3.0	2.1-2.2
Parameter	CCME[a]	MOE[b]	Units																			
Benzo(a)pyrene total potency equivalents	**5.3**	n/g	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	**15**	<0.020	<0.020	<0.020	0.092	<0.020	0.702	0.095	0.122	1.61	<0.020
Acenaphthene	n/g	**96**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	3.63	<0.0050	<0.0050	<0.0050	0.0063	<0.0050	0.143	<0.0050	0.0118	0.0860	<0.0050
Acenaphthylene	n/g	**0.17**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.366**	<0.0050	<0.0050	<0.0050	0.0062	<0.0050	0.0269	0.0064	0.0069	0.0848	<0.0050
Acridine	**n/g**	n/g	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1.58	<0.010	<0.010	<0.010	<0.010	<0.010	0.041	<0.010	0.024	0.120	<0.010
Anthracene	**32**	0.74	mg/kg	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	4.61	<0.0040	<0.0040	<0.0040	0.0164	<0.0040	0.287	0.0097	0.0208	0.217	<0.0040
Fluorene	n/g	**69**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	4.52	<0.0050	<0.0050	<0.0050	0.0061	<0.0050	0.182	<0.0050	0.0162	0.122	<0.0050
Naphthalene	**22**	28	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1.79	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.172	<0.0050	0.0187	0.249	<0.0050
Phenanthrene	**50**	16	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	32.0	<0.0050	<0.0050	<0.0050	0.0716	<0.0050	1.29	0.0322	0.106	0.872	0.0052
Benz(a)anthracene	**10** [c]	0.96	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**15.2**	<0.010	<0.010	<0.010	0.059	<0.010	0.627	0.058	0.058	0.632	<0.010
Benzo(a)pyrene	**1.4**	0.3	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**12.5**	<0.0050	<0.0050	<0.0050	0.0603	<0.0050	0.471	0.0653	0.0846	1.15	0.0065
Benzo(b+j)fluoranthene	**10** [c]	0.96	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**16.1**	<0.010	<0.010	<0.010	0.083	<0.010	0.554	0.075	0.085	1.23	0.011
Benzo(g,h,i)perylene	n/g	**9.6**	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	4.63	<0.010	<0.010	<0.010	0.037	<0.010	0.178	0.040	0.061	0.806	<0.010
Benzo(k)fluoranthene	**10** [c]	0.96	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	4.22	<0.010	<0.010	<0.010	0.028	<0.010	0.201	0.026	0.034	0.264	<0.010
Chrysene	n/g	**9.6**	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**13.5**	<0.010	<0.010	<0.010	0.065	<0.010	0.553	0.056	0.076	1.03	<0.010
Dibenz(a,h)anthracene	**10** [c]	0.1	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1.51	<0.0050	<0.0050	<0.0050	0.0098	<0.0050	0.0652	0.0094	0.0141	0.173	<0.0050
Fluoranthene	**180**	9.6	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	32.2	<0.0050	<0.0050	<0.0050	0.126	<0.0050	1.27	0.0703	0.110	1.10	0.0078
Indeno(1,2,3-c,d)pyrene	**10** [c]	0.95	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	4.79	<0.010	<0.010	<0.010	0.036	<0.010	0.204	0.038	0.043	0.558	<0.010
Methylnaphthalene, 1-	n/g	**85**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.834	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0669	<0.0050	0.0219	0.152	<0.0050
Methylnaphthalene, 2-	n/g	**85**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1.27	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0921	<0.0050	0.0469	0.418	<0.0050
Pyrene	**100** [c]	96	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	25.7	<0.0050	<0.0050	<0.0050	0.101	<0.0050	1.03	0.0619	0.122	1.90	0.0069
Quinoline	**n/g**	n/g	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0917	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0076	<0.0050	<0.0050	0.0058	<0.0050

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Fine Grain Soil, Human Health Guidelines 10^{-5} incremental risk*

[b] *Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use, Fine Grain Soil).*

[c] *interim Soil Quality Criteria CCME 1991)*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

- :Not analyzed

n/g: no guideline

PAH: Polycyclic Aromatic Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 4: Soil Analytical Results - Polycyclic Aromatic Hydrocarbons

			Sample Location	BH22-18	BH22-19	BH22-20	BH22-21	BH22-22	BH22-22	BH22-23	BH22-24	BH22-25	MW22-01	MW22-02	MW22-03	MW22-04	MW22-05	Staging Area	Staging Area	Construction Laydown
			Sample Date	6-Nov-22	3-Nov-22	3-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	4-Nov-22	4-Nov-22	5-Nov-22	1-Nov-22	31-Oct-22	5-Nov-22	11/4/2022	11/4/2022	11/1/2022	11/1/2022	11/1/2022
			Sample ID	BH22-18-SS02	BH22-19-SS01	BH22-20-SS01	BH22-21-SS02	BH22-22-SS04	BH22-22-SS08 (Dup of BH22-22-SS04)	BH22-23-SS01	BH22-24-SS03	BH22-25-SS03	MW22-01-SS02	MW22-02-SS05	MW22-03-SS02	MW22-04-SS03	MW22-05-SS01	ST-A1	ST-A2	C-LD
			Sample Depth (m bgs)	2.4-2.5	0.8-0.9	0.8-0.9	2.0-2.1	2.9-3.0	2.9-3.0	1.1-1.2	2.7-2.8	2.6-2.7	1.4-1.5	3.9-4.0	3.6-3.7	2.9-3.0	1.1-1.2	0.3	0.3	0.3
Parameter	CCME[a]	MOE[b]	Units																	
Benzo(a)pyrene total potency equivalents	**5.3**	n/g	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.197	<0.020	<0.020	<0.020	**6.91**	0.088	<0.020	<0.020	<0.020
Acenaphthene	n/g	**96**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0223	0.0142	<0.0050	<0.0050	1.46	0.0053	<0.0050	<0.0050	<0.0050
Acenaphthylene	n/g	**0.17**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0158	<0.0050	<0.0050	<0.0050	0.141	0.0058	<0.0050	<0.0050	<0.0050
Acridine	**n/g**	n/g	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.109	<0.010	<0.010	<0.010	0.501	<0.010	<0.010	<0.010	<0.010
Anthracene	**32**	0.74	mg/kg	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0476	<0.0040	<0.0040	<0.0040	2.40	0.0149	<0.0040	<0.0040	<0.0040
Fluorene	n/g	**69**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0240	<0.0050	0.017	<0.0050	1.55	0.0071	<0.0050	<0.0050	<0.0050
Naphthalene	**22**	28	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0484	<0.0050	0.0299	<0.0050	0.686	0.0051	<0.0050	<0.0050	<0.0050
Phenanthrene	**50**	16	mg/kg	0.0083	0.0139	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.185	<0.0050	<0.0050	<0.0050	11.3	0.0576	<0.0050	0.0069	0.0097
Benz(a)anthracene	**10** [c]	0.96	mg/kg	<0.010	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.113	<0.010	<0.010	<0.010	5.33	0.049	<0.010	<0.010	<0.010
Benzo(a)pyrene	**1.4**	0.3	mg/kg	0.0104	0.0124	0.0059	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.136	<0.0050	<0.0050	<0.0050	**4.69**	0.0602	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	**10** [c]	0.96	mg/kg	0.011	0.017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.157	<0.010	<0.010	<0.010	5.37	0.070	<0.010	<0.010	<0.010
Benzo(g,h,i)perylene	n/g	**9.6**	mg/kg	0.012	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.081	<0.010	<0.010	<0.010	2.28	0.037	<0.010	<0.010	<0.010
Benzo(k)fluoranthene	**10** [c]	0.96	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.050	<0.010	<0.010	<0.010	1.44	0.022	<0.010	<0.010	<0.010
Chrysene	n/g	**9.6**	mg/kg	0.014	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.157	<0.010	<0.010	<0.010	5.06	0.058	<0.010	<0.010	<0.010
Dibenz(a,h)anthracene	**10** [c]	0.1	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0203	<0.0050	<0.0050	<0.0050	0.697	0.0093	<0.0050	<0.0050	<0.0050
Fluoranthene	**180**	9.6	mg/kg	0.0088	0.0252	0.0063	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.188	<0.0050	<0.0050	<0.0050	12.5	0.103	0.0092	0.0124	0.0157
Indeno(1,2,3-c,d)pyrene	**10** [c]	0.95	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.069	<0.010	<0.010	<0.010	2.43	0.032	<0.010	<0.010	<0.010
Methylnaphthalene, 1-	n/g	**85**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0374	<0.0050	0.128	<0.0050	0.373	<0.0050	<0.0050	<0.0050	<0.0050
Methylnaphthalene, 2-	n/g	**85**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0804	<0.0050	0.203	<0.0050	0.711	0.0079	<0.0050	<0.0050	<0.0050
Pyrene	**100** [c]	96	mg/kg	0.0121	0.0222	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.350	<0.0050	<0.0050	<0.0050	10.3	0.0907	0.0064	0.0087	0.0110
Quinoline	**n/g**	n/g	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0414	<0.0050	<0.0050	<0.0050	<0.0050

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online ve*

[b] *Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Cond*

[c] *interim Soil Quality Criteria CCME 1991)*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

- :Not analyzed

n/g: no guideline

PAH: Polycyclic Aromatic Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 5: Soil Analytical Results - Volatile Organic Carbons

			Sample Location	BH22-01	BH22-01	BH22-01	BH22-02	BH22-02	BH22-03	BH22-03	BH22-03	BH22-04	BH22-04	BH22-05	BH22-05	BH22-05	BH22-05	BH22-06	BH22-06	BH22-06	BH22-07	BH22-07	BH22-07	BH22-07
			Sample Date	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	31-Oct-22	2-Nov-22	2-Nov-22	2-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22
			Sample ID	BH22-01 SS01	BH22-01 SS03	BH22-01 SS06	BH22-02 SS02	BH22-02 SS04	BH22-03 SS02	BH22-03 SS04	BH22-03 SS06	BH22-04 SS02	BH22-04 SS04	BH22-05 SS02	BH22-05 SS04	BH22-05 SS06	BH22-05 SS08 (Dup of BH22-05-SS06)	BH22-06 SS02	BH22-06 SS03	BH22-06 SS05	BH22-07 SS01	BH22-07 SS03	BH22-07 SS05	BH22-07 SS06 (Dup of BH22-07-SS05)
			Sample Depth (m bgs)	0.8-0.9	2.4-2.5	4.5-4.6	1.4-1.5	2.9-3.0	0.8-0.9	2.4-2.5	3.7-3.8	1.5-1.6	2.9-3.0	1.5-1.6	3.3-3.4	4.5-4.6	4.5-4.6	2.1-2.2	2.9-3.0	4.5-4.6	1.2-1.3	2.9-3.0	4.5-4.6	4.5-4.6
Parameter	CCME [a]	MOE [b]	Units																					
Bromodichloromethane	n/g	**18**	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	n/g	**1.7**	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	n/g	**0.05**	mg/kg	<0.050	<0.050	***<0.10***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloromethane (Carbon Tetrachloride)	**50**	1.5	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroethane	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloromethane (Chloroform)	**50**	0.18	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloromethane (Methyl Chloride)	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.10	0.064	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.063	<0.050	<0.050	<0.050	<0.050	<0.050	0.075	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane [DBCM]	n/g	**13**	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromoethane, 1,2-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,2-	**10**	8.5	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene,1,3-	**10**	12	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene,1,4-	**10**	0.84	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,1-	**50**	21	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,2-	**50**	0.05	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,1-	**50**	0.48	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,2- cis-	**50**	n/g	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,2- trans-	**50**	n/g	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane (Methylene chloride)	**50**	2	mg/kg	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dichloropropane, 1,2-	**50**	0.68	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropene, 1,3- cis-	**50**	0.21	mg/kg	<0.050	<0.050	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dichloropropene, 1,3- trans-	**50**	n/g	mg/kg	<0.050	<0.050	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	**n/g**	2.7	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,2,2-	**50**	0.094	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane,1,1,1,2-	n/g	**0.11**	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorobenzene, 1,2,3-	**10**	n/g	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorobenzene, 1,2,4-	**10**	16	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,1-	**50**	12	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,2-	**50**	0.11	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethene	n/g	**0.61**	mg/kg	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichlorofluoromethane	n/g	**5.8**	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trimethylbenzene, 1,2,4-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trimethylbenzene, 1,3,5-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	n/g	**0.25**	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use).*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 5: Soil Analytical Results - Volatile Organic Carbons

			Sample Location	BH22-08	BH22-08	BH22-08	BH22-09	BH22-09	BH22-09	BH22-10	BH22-10	BH22-10	BH22-11	BH22-11	BH22-11	BH22-12	BH22-12	BH22-12	BH22-13	BH22-13	BH22-14	BH22-14	BH22-14	BH22-14
			Sample Date	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	2-Nov-22	2-Nov-22	2-Nov-22	1-Nov-22	1-Nov-22	3-Nov-22	3-Nov-22	3-Nov-22	3-Nov-22	3-Nov-22
			Sample ID	BH22-08 SS01	BH22-08 SS02	BH22-08 SS04	BH22-09 SS02	BH22-09 SS04	BH22-09 SS06	BH22-10 SS02	BH22-10 SS04	BH22-10 SS06	BH22-11 SS01	BH22-11 SS03	BH22-11 SS05	BH22-12 SS01	BH22-12 SS03	BH22-12 SS05	BH22-13 SS02	BH22-13 SS04	BH22-14 SS01	BH22-14-SS14 (Dup of BH22-14-SS01)	BH22-14 SS03	BH22-14 SS05
			Sample Depth (m bgs)	0.8-0.9	1.4-1.5	3.0-3.1	1.5-1.6	2.4-2.5	3.8-3.9	1.4-1.5	3.0-3.1	4.5-4.6	0.8-0.9	2.4-2.5	3.9-4.0	0.8-0.9	2.4-2.5	3.7-3.8	1.4-1.5	2.9-3.0	0.9-1.0	0.9-1.0	2.3-2.4	3.7-3.8
Parameter	CCME [a]	MOE [b]	Units																					
Bromodichloromethane	n/g	**18**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	n/g	**1.7**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	n/g	**0.05**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloromethane (Carbon Tetrachloride)	**50**	1.5	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroethane	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloromethane (Chloroform)	**50**	0.18	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloromethane (Methyl Chloride)	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane [DBCM]	n/g	**13**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromoethane, 1,2-	**n/g**	n/g	mg/kg	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,2-	**10**	8.5	mg/kg	<0.050	**0.133**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene,1,3-	**10**	12	mg/kg	<0.050	0.084	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene,1,4-	**10**	0.84	mg/kg	<0.050	0.713	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,1-	**50**	21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,2-	**50**	0.05	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,1-	**50**	0.48	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,2- cis-	**50**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,2- trans-	**50**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane (Methylene chloride)	**50**	2	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dichloropropane, 1,2-	**50**	0.68	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropene, 1,3- cis-	**50**	0.21	mg/kg	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.10	<0.10	<0.10	<0.10
Dichloropropene, 1,3- trans-	**50**	n/g	mg/kg	<0.10	<0.10	<0.10	<0.050	<0.050	<0.050	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	**n/g**	2.7	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,2,2-	**50**	0.094	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane,1,1,1,2-	n/g	**0.11**	mg/kg	<0.050	<0.30	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorobenzene, 1,2,3-	**10**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorobenzene, 1,2,4-	**10**	16	mg/kg	<0.050	0.131	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,1-	**50**	12	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,2-	**50**	0.11	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethene	n/g	**0.61**	mg/kg	<0.10	0.053	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichlorofluoromethane	n/g	**5.8**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trimethylbenzene, 1,2,4-	**n/g**	n/g	mg/kg	<0.050	1.08	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trimethylbenzene, 1,3,5-	**n/g**	n/g	mg/kg	<0.050	0.470	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	n/g	**0.25**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use).*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 5: Soil Analytical Results - Volatile Organic Carbons

			Sample Location	BH22-15	BH22-15	BH22-15	BH22-15	BH22-16	BH22-16	BH22-16	BH22-17	BH22-17	BH22-17	BH22-18	BH22-18	BH22-18	BH22-18	BH22-19	BH22-19	BH22-19	BH22-20	BH22-20	BH22-20	BH22-21
			Sample Date	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	6-Nov-22	6-Nov-22	6-Nov-22	6-Nov-22	3-Nov-22	3-Nov-22	3-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	5-Nov-22
			Sample ID	BH22-15 SS02	BH22-15 SS03	BH22-15 SS06 (Dup of BH22-15-SS03)	BH22-15 SS04	BH22-16 SS01	BH22-16 SS03	BH22-16 SS05	BH22-17 SS02	BH22-17 SS03	BH22-17 SS05	BH22-18 SS01	BH22-18 SS02	BH22-18 SS06 (Dup of BH22-18-SS02)	BH22-18 SS03	BH22-19 SS01	BH22-19 SS04	BH22-19 SS06	BH22-20 SS01	BH22-20 SS04	BH22-20 SS05	BH22-21 SS02
			Sample Depth (m bgs)	2.4-2.5	3.0-3.1	3.0-3.1	3.9-4.0	1.2-1.3	2.9-3.0	4.5-4.6	1.2-1.3	2.1-2.2	3.6-3.7	1.1-1.2	2.4-2.5	3.0-3.1	2.4-2.5	0.8-0.9	2.9-3.0	4.5-4.6	0.8-0.9	2.7-2.8	3.6-3.7	2.0-2.1
Parameter	CCME [a]	MOE [b]	Units																					
Bromodichloromethane	n/g	**18**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	n/g	**1.7**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	n/g	**0.05**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloromethane (Carbon Tetrachloride)	**50**	1.5	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroethane	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloromethane (Chloroform)	**50**	0.18	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloromethane (Methyl Chloride)	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.053	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromochloromethane [DBCM]	n/g	**13**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromoethane, 1,2-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,2-	**10**	8.5	mg/kg	0.082	<0.050	<0.050	<0.050	<0.050	0.071	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene,1,3-	**10**	12	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene,1,4-	**10**	0.84	mg/kg	0.215	<0.050	<0.050	<0.050	<0.050	0.277	<0.050	<0.050	<0.050	<0.050	0.100	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,1-	**50**	21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,2-	**50**	0.05	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,1-	**50**	0.48	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,2- cis-	**50**	n/g	mg/kg	0.065	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,2- trans-	**50**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane (Methylene chloride)	**50**	2	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dichloropropane, 1,2-	**50**	0.68	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropene, 1,3- cis-	**50**	0.21	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dichloropropene, 1,3- trans-	**50**	n/g	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	**n/g**	2.7	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,2,2-	**50**	0.094	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane,1,1,1,2-	n/g	**0.11**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorobenzene, 1,2,3-	**10**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorobenzene, 1,2,4-	**10**	16	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,1-	**50**	12	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,2-	**50**	0.11	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethene	n/g	**0.61**	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	0.022	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichlorofluoromethane	n/g	**5.8**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trimethylbenzene, 1,2,4-	**n/g**	n/g	mg/kg	0.082	<0.050	<0.050	<0.050	<0.050	0.056	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trimethylbenzene, 1,3,5-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	n/g	**0.25**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use).*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 5: Soil Analytical Results - Volatile Organic Carbons

			Sample Location	BH22-21	BH22-21	BH22-22	BH22-22	BH22-22	BH22-22	BH22-23	BH22-23	BH22-23	BH22-24	BH22-24	BH22-25	BH22-25	BH22-25	MW22-01	MW22-01	MW22-01	MW22-02	MW22-02	MW22-02	MW22-03
			Sample Date	5-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	5-Nov-22	5-Nov-22	5-Nov-22	1-Nov-22	1-Nov-22	1-Nov-22	31-Oct-22	31-Oct-22	31-Oct-22	5-Nov-22
			Sample ID	BH22-21 SS04 (Dup of BH22-21-SS02)	BH22-21 SS03	BH22-22 SS02	BH22-22 SS04	BH22-22 SS08 (Dup of BH22-22-SS04)	BH22-22 SS06	BH22-23 SS01	BH22-23 SS03	BH22-23 SS05	BH22-24 SS02	BH22-24 SS03	BH22-25 SS02	BH22-25 SS03	BH22-25-SS05 (Dup of BH22-25-SS03)	MW22-01 SS02	MW22-01 SS04	MW22-01 SS06	MW22-02 SS01	MW22-02 SS03	MW22-02 SS05	MW22-03 SS02
			Sample Depth (m bgs)	2.0-2.1	2.9-3.0	1.1-1.2	2.9-3.0	2.9-3.0	4.3-4.4	1.1-1.2	2.9-3.0	4.5-4.6	1.7-1.8	2.7-2.8	1.8-1.9	2.6-2.7	2.6-2.7	1.4-1.5	2.9-3.0	4.5-4.6	0.8-0.9	2.3-2.4	3.9-4.0	1.8-1.9
Parameter	CCME [a]	MOE [b]	Units																					
Bromodichloromethane	n/g	**18**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	n/g	**1.7**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	n/g	**0.05**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloromethane (Carbon Tetrachloride)	**50**	1.5	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroethane	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloromethane (Chloroform)	**50**	0.18	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloromethane (Methyl Chloride)	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.059	0.090	<0.050	<0.050	<0.050	<0.050	<0.15	<0.050
Dibromochloromethane [DBCM]	n/g	**13**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromoethane, 1,2-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,2-	**10**	8.5	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.085**	**0.112**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene,1,3-	**10**	12	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene,1,4-	**10**	0.84	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.332	0.344	<0.050	<0.050	<0.050	<0.050	<0.050	0.180
Dichloroethane, 1,1-	**50**	21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,2-	**50**	0.05	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,1-	**50**	0.48	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,2- cis-	**50**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,2- trans-	**50**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane (Methylene chloride)	**50**	2	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dichloropropane, 1,2-	**50**	0.68	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropene, 1,3- cis-	**50**	0.21	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.10
Dichloropropene, 1,3- trans-	**50**	n/g	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.050	<0.050	<0.10
Chlorobenzene	**n/g**	2.7	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,2,2-	**50**	0.094	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane,1,1,1,2-	n/g	**0.11**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	***<0.20***	***<0.20***	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorobenzene, 1,2,3-	**10**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorobenzene, 1,2,4-	**10**	16	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,1-	**50**	12	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,2-	**50**	0.11	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethene	n/g	**0.61**	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.029	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichlorofluoromethane	n/g	**5.8**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trimethylbenzene, 1,2,4-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**0.097**	**0.101**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trimethylbenzene, 1,3,5-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	n/g	**0.25**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use).*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 5: Soil Analytical Results - Volatile Organic Carbons

			Sample Location	MW22-03	MW22-03	MW22-03	MW22-04	MW22-04	MW22-04	MW22-05	MW22-05	MW22-05	Staging Area	Satging Area	Construction Laydown
			Sample Date	5-Nov-22	5-Nov-22	5-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	4-Nov-22	3-Nov-22	3-Nov-22	3-Nov-22
			Sample ID	MW22-03 SS06 (Dup of MW22-03-SS02)	MW22-03 SS03	MW22-03 SS05	MW22-04 SS01	MW22-04 SS03	MW22-04 SS04	MW22-05 SS01	MW22-05 SS02	MW22-05 SS04	ST-A1	ST-A2	C-LD
			Sample Depth (m bgs)	1.8-1.9	2.6-2.7	4.2-4.3	1.1-1.2	2.9-3.0	3.7-3.8	1.1-1.2	2.0-2.1	3.7-3.8	0.3	0.3	0.3
Parameter	CCME [a]	MOE [b]	Units												
Bromodichloromethane	n/g	**18**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	n/g	**1.7**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	n/g	**0.05**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloromethane (Carbon Tetrachloride)	**50**	1.5	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroethane	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloromethane (Chloroform)	**50**	0.18	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloromethane (Methyl Chloride)	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.071
Dibromochloromethane [DBCM]	n/g	**13**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromoethane, 1,2-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene, 1,2-	**10**	8.5	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.137**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene,1,3-	**10**	12	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorobenzene,1,4-	**10**	0.84	mg/kg	0.092	<0.050	<0.050	<0.050	0.407	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,1-	**50**	21	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethane, 1,2-	**50**	0.05	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,1-	**50**	0.48	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,2- cis-	**50**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.124**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloroethene, 1,2- trans-	**50**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane (Methylene chloride)	**50**	2	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dichloropropane, 1,2-	**50**	0.68	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloropropene, 1,3- cis-	**50**	0.21	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dichloropropene, 1,3- trans-	**50**	n/g	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	**n/g**	2.7	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane, 1,1,2,2-	**50**	0.094	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethane,1,1,1,2-	n/g	**0.11**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorobenzene, 1,2,3-	**10**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorobenzene, 1,2,4-	**10**	16	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.077**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,1-	**50**	12	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethane, 1,1,2-	**50**	0.11	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethene	n/g	**0.61**	mg/kg	<0.10	<0.10	<0.10	<0.10	0.077	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichlorofluoromethane	n/g	**5.8**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trimethylbenzene, 1,2,4-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	0.159	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trimethylbenzene, 1,3,5-	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	n/g	**0.25**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use).*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 6: Soil Analytical Results - Metals

Sample ID:	SQG Surface Soil	Units	BH22-01 SS01	BH22-01 SS03	BH22-01 SS06	BH22-02 SS01	BH22-02 SS02	BH22-02 SS04	BH22-03 SS01	BH22-03 SS02	BH22-03 SS04	BH22-03 SS06	BH22-04 SS01	BH22-04 SS02	BH22-04 SS04	BH22-05 SS02	BH22-05 SS04	BH22-05 SS06	BH22-05 SS08 (Dup of BH22-05-SS06)	BH22-06 SS02	BH22-06 SS03	BH22-06 SS05	BH22-07 SS01	BH22-07 SS03
Date Sampled (mm/dd/yyyy):			31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	2-Nov-2022	2-Nov-2022	2-Nov-2022	1-Nov-2022	1-Nov-2022
Depth (m bgs)			0.8-0.9	2.4-2.5	4.5-4.6	0.1-0.2	1.4-1.5	2.9-3.0	0.2-0.3	0.8-0.9	2.4-2.5	3.7-3.8	0.2-0.3	1.5-1.6	2.9-3.0	1.5-1.6	3.3-3.4	4.5-4.6	4.5-4.6	2.1-2.2	2.9-3.0	4.5-4.6	1.2-1.3	2.9-3.0
Aluminum (Al)	**NG**	mg/kg	28600	3910	28700	21800	33700	4310	27100	32200	6350	29200	8230	26800	6070	21300	5410	9730	12800	33200	5830	18600	7100	17000
Antimony (Sb)	**40**	mg/kg	0.44	<0.10	0.42	0.49	0.39	<0.10	0.63	0.40	0.10	0.38	0.20	0.38	0.10	1.14	<0.10	0.47	0.51	0.45	0.11	0.52	0.11	0.24
Arsenic (As)	**12**	mg/kg	10.1	1.66	9.21	7.88	8.53	1.98	7.46	8.75	2.36	9.00	3.67	8.13	2.10	7.81	2.18	10.0	9.91	9.59	2.41	9.71	2.40	5.90
Barium (Ba)	**2,000**	mg/kg	233	30.2	142	198	233	27.1	180	247	50.4	234	98.0	197	46.9	231	54.6	253	249	216	40.4	284	58.6	132
Beryllium (Be)	**8**	mg/kg	1.13	0.16	1.32	0.91	1.13	0.18	0.93	1.12	0.24	1.25	0.30	1.01	0.26	0.73	0.21	0.47	0.61	1.28	0.23	0.82	0.24	0.66
Bismuth (Bi)	**NG**	mg/kg	0.31	<0.20	0.31	0.35	0.26	<0.20	0.25	0.26	<0.20	0.32	<0.20	0.26	<0.20	1.56	<0.20	<0.20	0.20	0.28	<0.20	0.26	<0.20	<0.20
Boron (B)	**120** [b]	mg/kg	20.5	10.4	21.3	16.9	25.4	11.7	20.2	28.4	13.9	18.6	12.2	18.3	12.7	16.3	12.5	8.1	9.0	24.8	13.7	11.6	14.2	15.9
Cadmium (Cd)	**22**	mg/kg	0.238	0.072	0.199	0.315	0.358	0.071	0.337	0.300	0.082	0.228	0.147	0.277	0.083	1.17	0.074	0.302	0.402	0.271	0.095	0.347	0.093	0.143
Calcium (Ca)	**NG**	mg/kg	32200	90700	27800	52000	61400	102000	38500	58900	114000	15500	90500	65200	108000	65400	113000	46400	42200	52900	116000	30600	103000	84600
Chromium (Cr)	**87**	mg/kg	53.6	11.1	56.6	44.1	49.7	11.6	41.9	48.5	15.6	56.0	21.0	45.6	14.7	**138**	13.4	17.1	22.0	57.6	14.3	31.2	16.5	33.7
Cobalt (Co)	**300**	mg/kg	15.3	2.38	15.7	12.0	13.3	2.57	11.4	13.4	3.58	14.9	7.56	12.9	3.77	9.65	3.37	5.43	7.92	14.9	3.47	9.61	3.87	10.7
Copper (Cu)	**91**	mg/kg	33.7	5.36	31.4	29.6	27.9	6.47	28.2	28.9	8.82	35.9	12.5	27.9	8.68	53.2	7.25	21.7	24.5	33.4	7.63	31.4	9.00	21.9
Iron (Fe)	**NG**	mg/kg	32700	6340	34600	24900	28700	6710	25000	27700	8740	33700	10800	27600	8740	20900	7720	20900	22200	35300	8140	26100	9300	19500
Lead (Pb)	**600**	mg/kg	13.3	2.68	14.1	16.6	12.5	3.18	23.3	12.2	3.79	14.5	7.80	11.6	3.76	75.1	3.34	9.97	11.2	13.4	3.56	12.9	4.25	9.22
Lithium (Li)	**NG**	mg/kg	43.0	7.4	37.8	28.1	35.8	7.8	26.1	35.9	11.4	40.6	11.8	28.3	10.6	21.7	9.7	12.8	16.0	39.7	10.8	22.6	10.8	24.4
Magnesium (Mg)	**NG**	mg/kg	25700	59700	16700	31700	27700	64000	21900	25700	74600	18000	60400	27700	68400	40500	67500	16900	15700	29400	72000	16200	66100	56900
Manganese (Mn)	**NG**	mg/kg	564	195	433	480	722	193	541	563	222	347	513	476	244	458	232	294	383	468	226	403	243	573
Molybdenum (Mo)	**40**	mg/kg	1.52	0.26	0.85	0.99	0.22	0.21	0.45	0.55	0.31	0.86	0.47	0.45	0.20	0.72	0.46	1.44	1.46	0.72	0.27	1.62	0.30	0.56
Nickel (Ni)	**89**	mg/kg	44.9	7.35	46.3	35.3	39.3	7.84	32.3	38.3	10.6	46.8	16.6	36.8	10.9	32.9	10.5	22.5	26.2	46.0	10.2	33.3	11.1	29.8
Phosphorus (P)	**NG**	mg/kg	538	394	549	586	504	406	614	523	337	575	416	465	329	1350	330	709	679	549	349	603	400	453
Potassium (K)	**NG**	mg/kg	4790	750	6120	3600	4900	890	4950	4350	1360	5850	1500	4320	1210	3280	1100	1330	1790	5170	1060	2550	1370	3050
Selenium (Se)	**2.9**	mg/kg	<0.20	<0.20	0.38	0.47	<0.20	<0.20	0.36	<0.20	<0.20	1.70	<0.20	<0.20	<0.20	0.28	<0.20	0.86	1.03	<0.20	<0.20	0.45	<0.20	<0.20
Silver (Ag)	**40**	mg/kg	0.13	<0.10	0.12	0.31	0.12	<0.10	0.18	0.13	<0.10	0.15	0.15	0.12	<0.10	3.25	<0.10	0.11	0.13	0.12	<0.10	0.13	<0.10	<0.10
Sodium (Na)	**NG**	mg/kg	2240	601	2030	369	283	218	286	1440	537	2360	268	436	281	348	267	292	331	522	292	414	241	367
Strontium (Sr)	**NG**	mg/kg	75.3	37.7	85.4	69.6	127	40.3	73.9	145	50.1	70.6	46.4	79.9	44.8	80.3	48.9	77.2	77.8	79.8	56.8	81.7	47.3	68.1
Sulfur (S)	**NG**	mg/kg	4100	<1000	12400	<1000	<1000	<1000	<1000	1800	<1000	3800	<1000	<1000	<1000	<1000	<1000	7900	8800	<1000	<1000	<1000	<1000	<1000
Thallium (Tl)	**1**	mg/kg	0.345	0.060	0.389	0.274	0.324	0.065	0.270	0.314	0.097	0.345	0.123	0.285	0.091	0.237	0.078	0.143	0.186	0.379	0.084	0.235	0.110	0.237
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	10.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	298	315	335	212	273	330	142	244	362	297	302	257	336	224	330	142	124	338	336	119	373	429
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	3.45	0.848	2.84	1.78	1.86	0.604	2.26	3.68	1.14	3.39	0.743	1.16	0.552	1.84	0.655	1.91	2.05	5.60	0.814	2.21	0.765	1.05
Vanadium (V)	**130**	mg/kg	81.9	15.1	86.5	61.6	93.9	16.1	69.8	94.0	21.4	84.2	27.5	74.5	20.7	57.2	19.0	31.6	38.4	99.0	20.6	50.1	23.8	48.1
Zinc (Zn)	**410**	mg/kg	86.5	11.2	96.7	76.0	78.5	12.4	89.7	78.4	18.3	94.8	27.3	72.1	18.7	152	15.5	56.3	63.9	84.6	16.3	76.7	20.9	48.4
Zirconium (Zr)	**NG**	mg/kg	19.0	7.0	24.3	13.5	9.4	7.7	7.7	11.2	8.7	19.1	8.4	12.5	8.5	3.2	7.8	11.1	11.4	18.4	8.6	11.3	9.4	14.5

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.
[b] Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.
SQG - soil quality guideline.
m bgs - metres below ground surface.
mg/kg - milligram per kilogram.
NG - No Guideline.
< - Denotes concentration less than indicated detection limit.
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 6: Soil Analytical Results - Metals

Sample ID:	SQG Surface Soil	Units	BH22-07 SS05	BH22-07 SS06 (Dup of BH22-07-SS05)	BH22-08 SS01	BH22-08 SS02	BH22-08 SS04	BH22-09 SS01	BH22-09 SS02	BH22-09 SS04	BH22-09 SS06	BH22-10 SS02	BH22-10 SS04	BH22-10 SS06	BH22-11 SS01	BH22-11 SS03	BH22-11 SS05	BH22-12 SS01	BH22-12 SS03	BH22-12 SS05	BH22-13 SS01	BH22-13 SS02	BH22-13 SS04	BH22-14 SS01
Date Sampled (mm/dd/yyyy):			1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	2-Nov-2022	2-Nov-2022	2-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	3-Nov-2022
Depth (m bgs)			4.5-4.6	4.5-4.6	0.8-0.9	1.4-1.5	3.0-3.1	0.1-0.2	0.8-0.9	2.4-2.5	3.9-4.0	1.4-1.5	3.0-3.1	4.5-4.6	0.8-0.9	2.4-2.5	3.9-4.0	0.8-0.9	2.3-2.4	3.7-3.8	0.1-0.2	1.4-1.5	2.9-3.0	0.9-1.0
Aluminum (Al)	**NG**	mg/kg	12300	12600	18700	27000	27900	27100	34700	9810	25600	28600	5200	36000	19800	9190	25500	21600	11300	28200	17000	40100	19400	22400
Antimony (Sb)	**40**	mg/kg	0.24	0.20	5.98	4.85	0.47	0.49	0.31	0.20	0.45	0.42	<0.10	0.45	0.38	0.16	0.40	0.41	0.17	0.48	0.39	0.38	0.40	0.67
Arsenic (As)	**12**	mg/kg	4.72	4.68	7.11	**14.8**	10.2	8.87	8.27	4.23	9.85	9.17	1.88	11.0	6.10	3.87	6.99	6.43	3.39	10.1	6.21	8.33	7.74	7.40
Barium (Ba)	**2,000**	mg/kg	115	101	194	401	204	205	199	105	132	232	45.6	246	159	67.1	246	160	73.3	249	165	204	313	212
Beryllium (Be)	**8**	mg/kg	0.47	0.44	0.73	1.00	1.08	1.19	1.20	0.34	1.12	1.13	0.20	1.41	0.73	0.37	0.98	0.78	0.39	1.19	0.66	1.40	0.85	0.84
Bismuth (Bi)	**NG**	mg/kg	<0.20	<0.20	1.88	4.60	0.30	0.32	0.26	<0.20	0.34	0.28	<0.20	0.37	0.29	<0.20	0.28	0.26	<0.20	0.33	0.21	0.30	0.25	1.46
Boron (B)	**120** [b]	mg/kg	15.2	15.2	59.3	23.2	19.7	18.1	30.3	13.0	16.2	20.9	12.7	23.2	16.2	14.7	19.2	17.3	14.8	17.7	18.7	27.3	16.0	18.5
Cadmium (Cd)	**22**	mg/kg	0.227	0.207	0.578	8.39	0.256	0.340	0.334	0.178	0.356	0.284	0.083	0.187	0.281	0.113	0.304	0.326	0.147	0.237	0.278	0.322	0.370	0.421
Calcium (Ca)	**NG**	mg/kg	76800	78000	70700	48000	54700	36100	32600	77900	36200	69200	124000	20000	73400	112000	78600	46100	90100	21100	88400	20900	59600	57900
Chromium (Cr)	**87**	mg/kg	25.2	24.0	74.7	**513**	51.0	46.5	51.6	21.5	46.7	46.8	12.1	69.2	45.0	21.1	47.0	40.7	23.8	51.3	35.9	59.3	36.4	52.5
Cobalt (Co)	**300**	mg/kg	7.46	6.67	9.75	11.5	14.7	14.5	14.0	5.66	14.2	16.2	3.17	24.0	8.86	5.20	12.6	10.4	5.46	16.7	8.55	14.5	13.1	11.1
Copper (Cu)	**91**	mg/kg	18.2	16.3	43.6	**302**	31.4	31.6	28.6	14.2	32.9	28.5	7.10	43.7	24.4	13.8	29.4	27.1	13.6	35.6	22.8	31.0	27.5	34.6
Iron (Fe)	**NG**	mg/kg	15100	14400	19900	28700	31300	31500	31400	13000	28400	28000	7370	41300	21400	12600	26600	22200	12500	32200	20200	35300	22300	24200
Lead (Pb)	**600**	mg/kg	7.97	6.90	69.2	338	13.7	15.0	13.7	6.20	14.3	13.1	3.34	17.4	16.3	5.88	12.8	25.0	6.26	14.7	17.3	15.5	12.0	33.4
Lithium (Li)	**NG**	mg/kg	17.3	16.1	24.0	23.9	32.9	29.2	41.1	15.9	31.2	31.3	8.7	47.2	22.8	15.7	32.5	23.8	16.5	33.8	20.1	38.8	25.6	27.7
Magnesium (Mg)	**NG**	mg/kg	49500	52400	43700	22600	25700	21900	25600	52900	15100	24500	67200	19300	37200	70100	28700	26800	59100	19200	45400	18000	28900	35100
Manganese (Mn)	**NG**	mg/kg	417	394	472	416	576	551	728	390	459	613	239	604	375	290	451	440	261	817	387	646	687	483
Molybdenum (Mo)	**40**	mg/kg	0.65	0.55	0.68	2.60	0.73	1.29	0.36	0.85	1.16	0.36	0.29	0.93	0.52	0.31	0.43	0.67	0.38	1.38	0.91	0.23	1.60	0.72
Nickel (Ni)	**89**	mg/kg	23.3	20.8	30.0	69.6	43.6	42.9	39.8	16.7	43.6	39.3	9.66	57.4	26.8	15.4	37.5	30.6	16.2	47.4	25.2	43.2	37.0	34.0
Phosphorus (P)	**NG**	mg/kg	520	554	808	6000	534	608	567	450	527	493	294	712	490	378	444	574	451	603	594	475	491	635
Potassium (K)	**NG**	mg/kg	2280	2210	3170	3590	4780	4690	5740	1800	4690	4020	1070	7490	3290	1860	3990	3780	1880	5210	3290	6180	3060	3460
Selenium (Se)	**2.9**	mg/kg	<0.20	<0.20	0.21	0.99	<0.20	0.33	0.29	<0.20	1.04	<0.20	<0.20	1.25	<0.20	<0.20	<0.20	0.34	<0.20	0.88	0.27	<0.20	<0.20	0.26
Silver (Ag)	**40**	mg/kg	<0.10	<0.10	1.80	18.5	0.14	0.16	0.12	<0.10	0.12	0.12	<0.10	0.16	1.08	<0.10	0.11	0.20	0.11	0.14	0.26	0.24	0.11	0.62
Sodium (Na)	**NG**	mg/kg	329	337	632	765	414	298	1700	684	1610	554	240	601	420	349	407	395	300	1270	289	715	523	875
Strontium (Sr)	**NG**	mg/kg	55.6	51.1	69.4	103	75.0	79.4	112	53.7	85.8	110	47.3	89.3	69.1	53.6	121	68.0	57.4	80.4	79.0	77.3	105	76.8
Sulfur (S)	**NG**	mg/kg	<1000	<1000	<1000	9200	<1000	<1000	2900	<1000	21500	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	3700	1400	<1000	<1000	1200
Thallium (Tl)	**1**	mg/kg	0.205	0.185	0.253	0.437	0.324	0.328	0.341	0.172	0.305	0.333	0.081	0.513	0.221	0.142	0.340	0.244	0.142	0.298	0.209	0.393	0.274	0.284
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	27.3	48.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1
Titanium (Ti)	**NG**	mg/kg	359	409	324	146	309	126	218	319	159	230	292	463	208	415	357	177	397	167	263	272	201	311
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	1.35	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	1.03	0.918	1.70	3.62	1.52	1.79	2.46	1.40	4.36	1.75	0.535	2.40	1.24	0.785	1.51	1.32	1.16	3.47	1.17	1.79	2.03	1.70
Vanadium (V)	**130**	mg/kg	39.7	38.2	53.7	66.5	80.7	74.0	91.5	31.7	76.1	85.8	17.5	98.3	58.6	30.6	74.1	60.4	33.2	83.4	49.0	102	61.3	65.1
Zinc (Zn)	**410**	mg/kg	41.5	37.4	161	**722**	78.7	88.6	85.3	32.8	83.4	74.3	14.3	113	62.6	28.1	72.8	82.3	30.8	88.9	61.6	93.3	65.9	89.4
Zirconium (Zr)	**NG**	mg/kg	12.5	11.9	22.2	3.1	16.5	13.9	9.9	10.1	20.4	11.7	8.1	24.2	8.0	12.3	19.1	8.2	9.6	15.9	1.3	12.3	12.9	12.4

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SQG - soil quality guideline.
m bgs - metres below ground surface.
mg/kg - milligram per kilogram.
NG - No Guideline.
< - Denotes concentration less than indicated detection limit.
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 6: Soil Analytical Results - Metals

Sample ID:	SQG Surface Soil	Units	BH22-14 SS14 (Dup of BH22-14-SS01)	BH22-14 SS03	BH22-14 SS05	BH22-15 SS01	BH22-15 SS02	BH22-15 SS03	BH22-15 SS06 (Dup of BH22-15-SS03)	BH22-15 SS04	BH22-16 SS01	BH22-16 SS03	BH22-16 SS05	BH22-17 SS01	BH22-17 SS02	BH22-17 SS03	BH22-17 SS05	BH22-18 SS01	BH22-18 SS02	BH22-18 SS06 (Dup of BH22-18-SS02)	BH22-18 SS03	BH22-19 SS01	BH22-19 SS04	BH22-19 SS06
Date Sampled (mm/dd/yyyy):			3-Nov-2022	3-Nov-2022	3-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	6-Nov-2022	6-Nov-2022	6-Nov-2022	6-Nov-2022	3-Nov-2022	3-Nov-2022	3-Nov-2022
Depth (m bgs)			0.9-1.0	2.3-2.4	3.7-3.8	0.2-0.3	2.4-2.5	3.0-3.1	3.0-3.1	3.9-4.0	1.2-1.3	2.9-3.0	4.5-4.6	0.2-0.3	1.2-1.3	2.1-2.2	3.6-3.7	1.1-1.2	2.4-2.5	2.4-2.5	3.0-3.1	0.8-0.9	2.9-3.0	4.5-4.6
Aluminum (Al)	**NG**	mg/kg	19100	10900	30400	26400	32100	8160	6610	34200	22500	27000	17600	26000	20100	30500	9360	21500	34400	36200	6610	30000	7560	34000
Antimony (Sb)	**40**	mg/kg	0.45	0.21	0.32	0.59	1.13	0.13	<0.10	0.48	0.55	8.96	0.33	0.49	0.51	0.41	0.15	0.83	0.41	0.69	0.13	0.35	0.12	0.40
Arsenic (As)	**12**	mg/kg	6.08	3.84	7.17	9.44	8.66	2.82	2.34	8.84	11.5	**13.3**	5.04	10.5	9.16	10.4	3.99	7.80	9.38	9.73	2.56	8.40	2.90	8.73
Barium (Ba)	**2,000**	mg/kg	191	91.0	231	231	234	60.6	52.6	327	148	572	159	213	165	220	70.1	199	195	266	55.8	210	60.3	290
Beryllium (Be)	**8**	mg/kg	0.71	0.38	1.15	1.04	1.18	0.28	0.22	1.18	1.13	0.94	0.74	1.25	1.01	1.27	0.33	0.91	1.32	1.38	0.27	1.13	0.27	1.36
Bismuth (Bi)	**NG**	mg/kg	0.29	<0.20	0.29	0.40	0.73	<0.20	<0.20	0.33	0.32	5.45	0.24	0.34	0.26	0.33	<0.20	0.42	0.35	0.61	<0.20	0.24	<0.20	0.34
Boron (B)	**120** [b]	mg/kg	20.2	15.7	21.6	19.7	23.7	12.1	14.4	23.9	15.6	23	15.2	17.0	13.2	19.0	16.4	17.0	17.9	21.0	15.0	27.8	13.1	24.6
Cadmium (Cd)	**22**	mg/kg	0.329	0.163	0.276	0.540	1.69	0.121	0.092	0.264	0.357	11.8	0.377	0.326	0.333	0.279	0.107	0.606	0.749	1.17	0.105	0.306	0.086	0.302
Calcium (Ca)	**NG**	mg/kg	77800	126000	28500	61600	46900	94100	147000	14500	33500	61300	57200	37000	36500	19500	154000	49700	11400	17300	123000	64500	125000	21000
Chromium (Cr)	**87**	mg/kg	40.7	20.7	62.2	62.1	**132**	16.8	15.2	72.0	42.4	**781**	36.5	48.0	33.3	56.3	19.3	62.4	79.8	**144**	16.1	49.3	16.4	69.8
Cobalt (Co)	**300**	mg/kg	10.2	5.01	17.2	13.5	11.6	4.39	3.32	20.9	13.9	9.58	10.4	15.1	12.4	16.4	4.85	12.0	15.3	17.1	3.66	12.0	3.78	22.6
Copper (Cu)	**91**	mg/kg	27.1	12.0	39.1	44.3	60.0	10.8	7.39	46.0	37.2	**279**	24.1	41.3	30.6	35.2	10.8	54.2	39.1	57.6	8.87	26.9	9.03	41.6
Iron (Fe)	**NG**	mg/kg	21500	12900	32800	28900	31500	10300	8750	40100	30200	23700	22400	33600	27300	35000	11400	25400	35200	34700	9250	28400	9290	38800
Lead (Pb)	**600**	mg/kg	31.7	5.10	13.4	26.6	62.7	4.53	3.55	16.5	18.2	415	10.5	16.7	13.1	14.9	4.83	36.8	23.8	49.2	4.19	12.6	3.81	16.5
Lithium (Li)	**NG**	mg/kg	22.4	13.8	44.1	30.3	34.8	11.7	9.9	51.3	29.8	18.7	21.1	32.5	27.2	34.8	13.1	26.8	29.0	32.5	11.6	39.4	11.5	46.3
Magnesium (Mg)	**NG**	mg/kg	46700	59800	19600	33100	22200	55900	81400	17400	16800	26400	32000	18000	18300	16300	83400	29700	15900	17700	71800	27800	67400	21000
Manganese (Mn)	**NG**	mg/kg	479	334	523	570	481	286	250	689	487	431	454	609	546	492	314	460	443	621	228	494	231	759
Molybdenum (Mo)	**40**	mg/kg	0.67	0.26	0.86	1.10	0.63	0.33	0.22	1.10	1.36	2.02	0.60	1.53	1.10	1.09	0.16	1.14	0.46	0.57	0.27	0.57	0.22	1.03
Nickel (Ni)	**89**	mg/kg	29.2	15.3	50.2	41.4	43.0	13.8	10.0	60.9	38.9	76.3	31.1	47.5	35.0	47.7	13.7	38.5	45.8	49.1	10.7	35.3	11.2	58.9
Phosphorus (P)	**NG**	mg/kg	655	403	621	3030	1570	434	415	740	618	7980	509	648	557	589	448	888	692	1070	335	493	345	653
Potassium (K)	**NG**	mg/kg	3800	1660	6440	4920	4370	1520	1250	7310	3740	3260	3400	4980	3120	5730	1850	4000	5380	5470	1150	4790	1460	7470
Selenium (Se)	**2.9**	mg/kg	0.22	<0.20	<0.20	0.39	0.25	<0.20	<0.20	0.23	0.47	1.32	<0.20	1.13	0.56	0.63	<0.20	0.27	<0.20	0.24	<0.20	<0.20	<0.20	0.23
Silver (Ag)	**40**	mg/kg	0.30	<0.10	0.15	0.79	3.06	<0.10	<0.10	0.21	0.23	25.5	0.15	0.19	0.14	0.14	<0.10	1.12	0.89	2.37	<0.10	0.18	<0.10	0.16
Sodium (Na)	**NG**	mg/kg	829	358	636	461	714	459	400	1080	391	810	412	373	395	649	387	280	779	817	404	517	474	1140
Strontium (Sr)	**NG**	mg/kg	69.5	73.6	79.3	81.1	80.6	43.6	55.2	91.2	86.9	128	61.1	95.0	81.5	81.1	62.1	67.8	53.5	65.7	57.8	151	59.7	88.4
Sulfur (S)	**NG**	mg/kg	<1000	<1000	<1000	<1000	1300	<1000	<1000	<1000	<1000	2600	<1000	<1000	<1000	1100	<1000	<1000	<1000	1000	<1000	<1000	<1000	1100
Thallium (Tl)	**1**	mg/kg	0.249	0.155	0.351	0.318	0.351	0.119	0.085	0.476	0.305	0.48	0.274	0.290	0.233	0.349	0.122	0.293	0.340	0.396	0.098	0.284	0.095	0.454
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	2.6	2.2	8.7	<2.0	<2.0	<2.0	<2.0	66.5	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	3.0	7.1	<2.0	<2.0	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	376	357	535	224	277	354	414	839	86.1	248	258	126	106	194	461	180	152	163	345	296	341	563
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	1.30	0.846	1.54	1.69	1.61	0.719	0.689	2.11	1.93	3.29	1.07	2.43	1.90	1.99	0.718	1.50	1.06	1.71	0.738	2.04	0.725	2.29
Vanadium (V)	**130**	mg/kg	60.6	34.4	88.8	78.1	85.8	26.0	21.8	97.2	63.5	66.0	59.3	78.5	52.6	88.8	30.6	63.2	96.6	101	22.1	90.2	23.9	101
Zinc (Zn)	**410**	mg/kg	73.9	26.3	92.6	120	264	23.8	16.1	109	91.7	**969**	59.0	99.1	80.7	98.3	21.4	123	139	218	18.2	77.1	19.1	105
Zirconium (Zr)	**NG**	mg/kg	12.5	8.3	18.6	9.9	7.0	8.9	9.3	27.7	14.3	<2.0	11.5	14.9	13.7	15.8	10.1	11.7	9.9	8.2	9.3	10.6	8.1	23.5

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NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 6: Soil Analytical Results - Metals

Sample ID:	SQG Surface Soil	Units	BH22-20 SS01	BH22-20 SS04	BH22-20 SS05	BH22-21 SS02	BH22-21 SS04 (Dup of BH22-21-SS02)	BH22-21 SS03	BH22-22 SS01	BH22-22 SS02	BH22-22 SS04	BH22-22 SS08 (Dup of BH22-22-SS04)	BH22-22 SS06	BH22-23 SS01	BH22-23 SS03	BH22-23 SS05	BH22-24 SS01	BH22-24 SS02	BH22-24 SS03	BH22-25 SS01	BH22-25 SS02	BH22-25 SS03	BH22-25 SS05 (Dup of BH22-25-SS03)	MW22-01 SS02
Date Sampled (mm/dd/yyyy):			4-Nov-2022	4-Nov-2022	4-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	1-Nov-2022
Depth (m bgs)			0.8-0.9	2.7-2.8	3.6-3.7	2.0-2.1	2.0-2.1	2.9-3.0	0.2-0.3	1.1-1.2	2.9-3.0	2.9-3.0	4.3-4.4	1.1-1.2	2.9-3.0	4.5-4.6	0.2-0.3	1.7-1.8	2.7-2.8	0.2-0.3	1.8-1.9	2.6-2.7	2.6-2.7	1.4-1.5
Aluminum (Al)	**NG**	mg/kg	30900	12300	28600	36200	38500	4730	27200	18300	6600	8380	31000	25900	8990	29100	22000	24400	5940	20900	29400	36500	22000	34500
Antimony (Sb)	**40**	mg/kg	0.35	0.18	0.45	0.30	0.36	<0.10	0.69	0.40	<0.10	0.13	0.47	0.41	0.19	0.40	0.40	0.27	<0.10	0.37	0.45	1.12	7.95	0.36
Arsenic (As)	**12**	mg/kg	8.42	4.59	9.83	7.39	7.45	1.98	9.56	6.67	2.47	3.24	11.2	9.27	3.77	7.95	6.92	7.12	1.73	5.46	8.59	9.51	**14.9**	8.03
Barium (Ba)	**2,000**	mg/kg	228	88.7	233	207	306	34.0	244	147	50.8	60.5	254	163	71.9	249	187	175	45.1	177	342	322	714	183
Beryllium (Be)	**8**	mg/kg	1.07	0.47	1.25	1.24	1.30	0.19	1.10	0.76	0.22	0.31	1.40	1.07	0.32	1.23	0.85	0.92	0.23	0.80	1.19	1.32	0.67	1.32
Bismuth (Bi)	**NG**	mg/kg	0.23	<0.20	0.33	0.27	0.25	<0.20	0.45	0.25	<0.20	<0.20	0.32	0.28	<0.20	0.30	0.27	0.24	<0.20	0.30	0.32	0.78	7.32	0.29
Boron (B)	**120** [b]	mg/kg	24.1	15.5	19.4	22.4	28.1	12.7	20.3	15.3	12.5	12.8	22.3	16.7	13.1	20.8	20.3	21.1	11.6	19.6	22.0	26.7	22	17.4
Cadmium (Cd)	**22**	mg/kg	0.351	0.123	0.388	0.297	0.507	0.078	0.657	0.354	0.085	0.124	0.283	0.319	0.175	0.402	0.359	0.222	0.102	0.275	0.288	1.39	21.5	0.251
Calcium (Ca)	**NG**	mg/kg	48700	110000	22400	11300	43100	126000	63700	62500	126000	109000	16200	40900	104000	39500	68600	81900	101000	99900	63000	61500	57400	10500
Chromium (Cr)	**87**	mg/kg	50.4	24.8	52.1	51.9	57.4	12.9	67.5	39.5	14.4	17.8	57.9	45.0	19.3	55.9	47.5	50.5	14.0	41.3	50.9	**119**	**1550**	56.0
Cobalt (Co)	**300**	mg/kg	12.8	6.43	20.1	15.5	15.9	2.73	13.6	9.33	3.53	5.04	21.0	13.7	5.06	15.4	11.0	13.0	3.06	8.87	13.8	13.5	8.00	11.8
Copper (Cu)	**91**	mg/kg	28.3	14.9	35.5	29.9	31.2	6.65	41.0	30.8	7.98	11.1	37.7	30.8	12.2	35.2	28.4	28.6	7.40	29.1	31.6	59.8	**511**	32.3
Iron (Fe)	**NG**	mg/kg	27500	15000	33100	32500	35400	7080	30200	21300	8600	11000	36400	28700	11700	32800	25100	28300	7940	22400	31000	36800	18200	33300
Lead (Pb)	**600**	mg/kg	12.3	6.40	15.2	13.2	13.1	2.87	30.7	14.9	3.58	4.91	15.4	13.1	4.70	14.5	15.3	11.4	3.33	15.9	15.6	69.4	**675**	15.8
Lithium (Li)	**NG**	mg/kg	30.3	17.4	33.0	32.1	32.5	8.3	31.7	21.9	9.5	11.8	33.7	29.2	11.2	37.3	26.3	35.6	8.6	24.8	33.7	41.6	14.4	27.0
Magnesium (Mg)	**NG**	mg/kg	25400	66900	18000	16300	21700	70500	34200	29100	68600	60100	14100	23400	57800	25100	42300	53300	59200	56100	35800	31400	26900	14800
Manganese (Mn)	**NG**	mg/kg	555	309	896	864	944	196	552	412	237	338	958	501	362	619	477	529	206	376	681	454	365	386
Molybdenum (Mo)	**40**	mg/kg	0.38	0.27	1.83	0.26	0.34	0.25	0.91	0.80	0.24	0.34	1.59	1.22	0.27	0.85	0.72	0.47	0.19	0.42	0.70	1.22	4.13	0.30
Nickel (Ni)	**89**	mg/kg	36.6	18.5	63.2	43.7	46.1	8.19	40.8	28.4	10.3	14.6	48.0	39.5	14.8	47.9	32.1	37.9	8.99	30.8	41.5	49.4	**92.5**	41.3
Phosphorus (P)	**NG**	mg/kg	538	429	570	404	421	347	814	513	369	386	585	563	419	544	578	541	416	560	570	1400	13000	391
Potassium (K)	**NG**	mg/kg	4930	2040	5320	5680	5890	960	4800	3330	1350	1670	6010	4670	1700	5760	3950	4670	1130	3520	4850	5520	1830	5940
Selenium (Se)	**2.9**	mg/kg	0.23	<0.20	<0.20	<0.20	<0.20	<0.20	0.32	0.39	<0.20	<0.20	0.51	0.47	<0.20	0.29	0.32	<0.20	<0.20	<0.20	0.21	0.31	2.00	<0.20
Silver (Ag)	**40**	mg/kg	0.17	<0.10	0.13	0.14	0.14	<0.10	0.86	0.34	<0.10	<0.10	0.13	0.13	<0.10	0.15	0.33	0.11	<0.10	0.25	0.18	2.13	**45.7**	0.22
Sodium (Na)	**NG**	mg/kg	388	337	462	740	829	324	334	708	330	361	523	1500	308	434	1140	802	296	738	960	997	1350	543
Strontium (Sr)	**NG**	mg/kg	96.3	61.9	75.4	71.8	160	50.2	99.3	70.0	52.6	51.2	74.6	85.0	51.2	81.5	76.0	73.5	39.8	80.0	85.3	117	186	46.7
Sulfur (S)	**NG**	mg/kg	<1000	<1000	<1000	<1000	<1000	<1000	<1000	1200	<1000	<1000	<1000	3400	<1000	<1000	1700	<1000	<1000	1000	1800	1400	9100	<1000
Thallium (Tl)	**1**	mg/kg	0.289	0.162	0.365	0.334	0.381	0.068	0.332	0.205	0.090	0.126	0.402	0.288	0.140	0.348	0.273	0.329	0.083	0.258	0.351	0.412	0.49	0.378
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	7.1	116	<2.0
Titanium (Ti)	**NG**	mg/kg	260	346	176	155	250	301	226	175	355	343	214	128	385	289	309	613	374	289	263	253	198	123
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	9.5	<0.50
Uranium (U)	**300**	mg/kg	1.36	0.778	1.49	1.14	1.56	0.714	1.85	1.47	0.580	0.654	1.75	2.22	0.652	1.76	1.48	1.13	0.553	1.62	1.70	2.27	5.60	0.695
Vanadium (V)	**130**	mg/kg	90.8	35.6	83.2	98.8	113	17.7	78.2	54.3	21.5	27.0	102	75.2	30.7	81.8	67.4	68.2	19.4	59.5	87.4	102	44.6	94.6
Zinc (Zn)	**410**	mg/kg	82.9	32.4	88.2	102	105	12.6	119	71.1	17.0	25.1	97.0	84.6	23.6	88.8	75.7	71.3	15.4	64.6	86.9	187	**1,710**	98.1
Zirconium (Zr)	**NG**	mg/kg	9.2	10.2	13.9	10.4	10.7	7.4	14.0	11.0	8.5	9.2	15.1	14.2	9.8	18.0	12.0	19.7	8.8	13.7	15.4	10.8	<2.0	13.0

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*
[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*
SQG - soil quality guideline.
m bgs - metres below ground surface.
mg/kg - milligram per kilogram.
NG - No Guideline.
< - Denotes concentration less than indicated detection limit.
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 6: Soil Analytical Results - Metals

Sample ID:	**SQG Surface Soil**	**Units**	MW22-01 SS04	MW22-01 SS06	MW22-02 SS01	MW22-02 SS03	MW22-02 SS05	MW22-03 SS02	MW22-03 SS06 (Dup of MW22-03-SS02)	MW22-03 SS03	MW22-03 SS05	MW22-04 SS01	MW22-04 SS03	MW22-04 SS04	MW22-05 SS01	MW22-05 SS02	MW22-05 SS04	ST-A1	ST-A2	C-LD
Date Sampled (mm/dd/yyyy):			1-Nov-2022	1-Nov-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	3-Nov-2022	3-Nov-2022	3-Nov-2022
Depth (m bgs)			2.9-3.0	4.5-4.6	0.8-0.9	2.3-2.4	3.9-4.0	1.8-1.9	1.8-1.9	2.6-2.7	4.2-4.3	1.1-1.2	2.9-3.0	3.7-3.8	1.1-1.2	2.0-2.1	3.7-3.8	0.3	0.3	0.3
Aluminum (Al)	**NG**	mg/kg	38100	10200	22100	9180	27000	24900	24200	24500	41600	20000	16300	7700	20700	24600	13800	27700	33700	32300
Antimony (Sb)	**40**	mg/kg	0.49	0.18	0.75	0.19	0.47	8.40	5.05	5.21	0.26	1.92	9.74	0.14	0.57	0.75	0.21	0.34	0.35	0.40
Arsenic (As)	**12**	mg/kg	10.9	3.63	7.20	3.77	9.29	**18.6**	**13.6**	**14.2**	8.97	8.37	9.73	3.43	7.38	9.85	4.89	6.41	9.14	8.10
Barium (Ba)	**2,000**	mg/kg	189	65.8	179	66.8	261	732	577	469	222	185	504	63.0	182	222	92.2	157	184	190
Beryllium (Be)	**8**	mg/kg	1.48	0.38	0.91	0.34	1.15	0.75	0.86	0.81	1.12	0.88	0.61	0.28	0.87	1.01	0.47	1.07	1.16	1.19
Bismuth (Bi)	**NG**	mg/kg	0.32	<0.20	0.33	<0.20	0.32	8.67	5.00	4.34	0.36	0.81	3.47	<0.20	0.36	0.57	<0.20	0.24	0.26	0.28
Boron (B)	**120** [b]	mg/kg	27.0	15.1	19.4	13.3	19.6	25	26	23	18.7	16.0	19.5	13.6	19.4	18.5	17.1	14.7	21.1	27.7
Cadmium (Cd)	**22**	mg/kg	0.263	0.150	0.372	0.150	0.255	**22.2**	14.0	12.2	0.313	0.798	9.01	0.103	0.477	1.06	0.197	0.373	0.365	0.386
Calcium (Ca)	**NG**	mg/kg	42500	85200	57500	89100	20200	52700	57600	59700	34900	46000	85800	134000	70400	64800	105000	13000	14000	25300
Chromium (Cr)	**87**	mg/kg	62.3	22.3	40.2	18.5	53.5	**1910**	**1120**	**959**	**91.1**	65.7	**485**	17.3	48.6	**90.7**	28.1	42.4	49.7	47.6
Cobalt (Co)	**300**	mg/kg	16.9	5.92	10.8	5.06	20.2	7.97	10.7	9.30	24.6	12.3	6.99	4.57	10.9	12.8	7.35	12.0	14.0	13.3
Copper (Cu)	**91**	mg/kg	37.0	15.0	30.7	12.3	33.9	**551**	**339**	**293**	57.4	50.0	**356**	10.4	30.4	46.1	19.0	29.9	32.0	30.1
Iron (Fe)	**NG**	mg/kg	38600	12800	24300	11500	31300	15300	21500	21100	50800	25600	17400	10200	24300	27100	16500	27100	30700	29700
Lead (Pb)	**600**	mg/kg	15.2	6.35	21.3	5.32	13.8	**677**	426	371	17.9	39.0	503	4.51	24.8	40.8	7.40	21.6	19.1	21.1
Lithium (Li)	**NG**	mg/kg	44.9	15.8	29.1	13.4	35.6	16.6	24.0	23.0	81.5	24.9	16.6	12.3	25.7	29.9	18.5	21.8	28.2	32.2
Magnesium (Mg)	**NG**	mg/kg	26700	56100	32600	57800	17200	22000	26500	27100	23700	27000	37900	72500	34000	34300	65800	11700	14500	21100
Manganese (Mn)	**NG**	mg/kg	610	338	502	305	1000	273	384	357	824	485	304	271	485	475	455	392	683	716
Molybdenum (Mo)	**40**	mg/kg	1.01	0.58	0.60	0.60	1.63	5.18	3.11	2.81	0.62	0.84	2.14	0.18	0.99	0.98	0.49	0.36	0.37	0.30
Nickel (Ni)	**89**	mg/kg	50.2	17.6	32.1	15.0	50.1	**107**	78.7	73.3	74.2	38.8	67.4	12.6	31.4	42.0	22.5	34.3	39.6	38.3
Phosphorus (P)	**NG**	mg/kg	554	461	561	414	579	15600	9180	8060	919	1110	7720	358	590	1020	542	602	726	695
Potassium (K)	**NG**	mg/kg	5600	1950	3930	1450	5420	1820	2760	2770	10500	4100	1880	1360	3610	4490	2870	5920	6640	6240
Selenium (Se)	**2.9**	mg/kg	<0.20	<0.20	<0.20	<0.20	1.68	2.34	1.24	1.16	<0.20	0.44	0.85	<0.20	0.32	0.34	<0.20	0.35	0.37	0.37
Silver (Ag)	**40**	mg/kg	0.15	<0.10	0.27	<0.10	0.14	**56.4**	32.4	26.6	0.20	0.99	19.8	<0.10	0.48	1.66	<0.10	0.14	0.13	0.15
Sodium (Na)	**NG**	mg/kg	619	392	445	574	1790	2230	1650	1510	2730	765	834	356	894	722	468	242	185	229
Strontium (Sr)	**NG**	mg/kg	95.5	48.6	76.9	58.9	81.6	233	177	154	105	77.5	136	62.0	82.7	79.6	55.5	47.8	44.6	78.8
Sulfur (S)	**NG**	mg/kg	<1000	<1000	<1000	<1000	6600	12400	7500	6600	20000	1000	5300	<1000	1500	1400	<1000	<1000	<1000	<1000
Thallium (Tl)	**1**	mg/kg	0.413	0.177	0.256	0.136	0.361	0.49	0.43	0.42	0.669	0.285	0.395	0.109	0.264	0.289	0.204	0.295	0.314	0.323
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	125	71.3	61.8	<2.0	3.4	57.9	<2.0	3.0	4.9	<2.0	<2.0	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	322	412	227	319	256	191	231	180	1810	126	163	361	232	195	491	103	180	188
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	10.8	5.4	4.4	<0.50	<0.50	2.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	1.57	0.902	1.30	1.31	2.94	12.5	9.33	9.47	4.04	1.61	3.49	0.716	1.61	2.04	0.885	1.52	1.11	0.807
Vanadium (V)	**130**	mg/kg	104	32.7	62.6	29.9	82.9	46.8	63.5	58.1	105	59.0	36.2	24.8	64.3	72.8	43.9	69.4	88.2	84.1
Zinc (Zn)	**410**	mg/kg	97.1	32.4	74.7	26.6	90.6	**1,710**	**1,110**	**964**	142	176	**970**	20.9	84.7	149	42.4	95.9	97.1	92.7
Zirconium (Zr)	**NG**	mg/kg	17.6	11.9	10.6	10.1	18.6	<2.0	<4.0	<2.0	38.1	11.2	1.3	8.7	11.7	10.7	12.6	12.2	9.2	9.2

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*
[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*
SQG - soil quality guideline.
m bgs - metres below ground surface.
mg/kg - milligram per kilogram.
NG - No Guideline.
< - Denotes concentration less than indicated detection limit.
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 7: Soil Analytical Results for Salinity - Saturated Paste Extractables

Sample ID:	**SQG** [a,b]	**Units**	BH22-12 SS01	BH22-14 SS01	BH22-16 SS01
Date Sampled (mm/dd/yyyy):			2-Nov-2022	2-Nov-2022	4-Nov-2022
Depth (m bgs)			0.8-0.9	0.9-1.0	1.2-1.3
SAR (Sodium Absorption Ratio)	**12** [a]	SAR	1.64	3.42	1.53
Calcium (Ca)	**n/g**	mg/L	188	471	116
Chloride (Cl)	**n/g**	mg/L	96	470	35
Conductivity (Saturated Paste)	**4** [a]	dS/m	1.96	**5.58**	1.14
Magnesium (Mg)	**n/g**	mg/L	126	479	42.8
Potassium (K)	**n/g**	mg/L	17.8	<50	18.4
Sodium (Na)	**n/g**	mg/L	118	442	75.8
Sulfur (as SO4)	**n/g**	mg/L	866	3,420	375

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

All results and soil quality guidelines in mg/L, unless otherwise specified.

SQG - soil quality guideline.

m bgs - metres below ground surface.

mg/L - milligrams per litre.

dS/m - deciSiemens per metre.

n/g - No Guideline.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 8: Soil Analytical Results - Waste Characterization

Sample ID:	**SQG [a,b]**	**Units**	LAND FILL
Date Sampled (mm/dd/yyyy):			5-Nov-2022
Depth (m bgs)			-
Petroleum Hydrocarbons			
Benzene	**2.8**	mg/kg	<0.0050
Toluene	**330**	mg/kg	<0.050
Ethylbenzene	**430**	mg/kg	<0.015
Xylenes, Total	**230**	mg/kg	<0.071
PHC F1 (C6-C10) minus BTEX	**320**	mg/kg	<10
PHC F2 (>C10-C16)	**260**	mg/kg	<25
PHC F3 (>C16-C34 range)	**2,500**	mg/kg	<50
PHC F4 (>C34-C50 range)	**6,600**	mg/kg	<50
Metals			
Aluminum (Al)	**NG**	mg/kg	9460
Antimony (Sb)	**40**	mg/kg	0.12
Arsenic (As)	**12**	mg/kg	2.87
Barium (Ba)	**2,000**	mg/kg	108
Beryllium (Be)	**8**	mg/kg	0.31
Bismuth (Bi)	**NG**	mg/kg	<0.20
Boron (B)	**120** [b]	mg/kg	13.8
Cadmium (Cd)	**22**	mg/kg	0.119
Calcium (Ca)	**NG**	mg/kg	107000
Chromium (Cr)	**87**	mg/kg	20.6
Cobalt (Co)	**300**	mg/kg	4.74
Copper (Cu)	**91**	mg/kg	12.2
Iron (Fe)	**NG**	mg/kg	11700
Lead (Pb)	**600**	mg/kg	5.16
Lithium (Li)	**NG**	mg/kg	14.8
Magnesium (Mg)	**NG**	mg/kg	60900
Manganese (Mn)	**NG**	mg/kg	263
Molybdenum (Mo)	**40**	mg/kg	0.38
Nickel (Ni)	**89**	mg/kg	14.6
Phosphorus (P)	**NG**	mg/kg	436
Potassium (K)	**NG**	mg/kg	1900
Selenium (Se)	**2.9**	mg/kg	<0.20
Silver (Ag)	**40**	mg/kg	<0.10
Sodium (Na)	**NG**	mg/kg	495
Strontium (Sr)	**NG**	mg/kg	51.1
Sulfur (S)	**NG**	mg/kg	<1000
Thallium (Tl)	**1**	mg/kg	0.142
Tin (Sn)	**300**	mg/kg	<2.0
Titanium (Ti)	**NG**	mg/kg	498
Tungsten (W)	**NG**	mg/kg	<0.50
Uranium (U)	**300**	mg/kg	0.968
Vanadium (V)	**130**	mg/kg	28.6
Zinc (Zn)	**410**	mg/kg	25.1
Zirconium (Zr)	**NG**	mg/kg	11.0
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene total potency equivalents	**5.30**	mg/kg	<0.020
Acenaphthene	**96** [b]	mg/kg	<0.0050
Acenaphthylene	**0.17** [b]	mg/kg	<0.0050
Acridine	**n/g**	mg/kg	<0.010
Anthracene	**32**	mg/kg	<0.0040
Fluorene	**69** [b]	mg/kg	<0.0050
Naphthalene	**22**	mg/kg	<0.0050
Phenanthrene	**50**	mg/kg	<0.0050
Benz(a)anthracene	**10** [c]	mg/kg	<0.010
Benzo(a)pyrene	**1.4**	mg/kg	<0.0050
Benzo(b+j)fluoranthene	**10** [c]	mg/kg	<0.010
Benzo(g,h,i)perylene	**9.6** [b]	mg/kg	<0.010
Benzo(k)fluoranthene	**10** [c]	mg/kg	<0.010
Chrysene	**9.6** [b]	mg/kg	<0.010
Dibenz(a,h)anthracene	**10** [c]	mg/kg	<0.0050
Fluoranthene	**180**	mg/kg	<0.0050
Indeno(1,2,3-c,d)pyrene	**10** [c]	mg/kg	<0.010
Methylnaphthalene, 1-	**85** [b]	mg/kg	<0.0050
Methylnaphthalene, 2-	**85** [b]	mg/kg	<0.0050
Pyrene	**100** [c]	mg/kg	<0.0050
Quinoline	**n/g**	mg/kg	<0.0050
Aggregate Organics			
Phenols	**3.8**	mg/kg	<0.10

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use, Fine Grained and Surface Soil.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

[c] *interim Soil Quality Criteria CCME 1991)*

SQG - soil quality guideline.

m bgs - metres below ground surface.

mg/kg - milligram per kilogram.

NG - No Guideline.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 9: Groundwater Analytical Results - Petroleum Hydrocarbons

			Sample Location	MW22-01	MW22-02	MW22-03	MW22-04	MW22-10 (Dup of MW22-04)	MW22-05	17-03	18-04
			Sample Date	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022
			Sample ID	MW22-01	MW22-02	MW22-03	MW22-04	MW22-10	MW22-05	17-03	18-04
Parameter	GQG [a]	MOE [b]	Units								
Benzene	**19**	0.43	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Toluene	**240**	18.0	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Ethylbenzene	**150**	2.3	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Xylenes, Total	**74**	4.2	mg/L	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064	<0.00064
PHC F1 (C6-C10) minus BTEX	**9.9**	0.750	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
PHC F2 (>C10-C16)	**3.1**	0.150	mg/L	0.15	<0.10	<0.10	0.16	0.13	<0.10	<0.10	<0.10
PHC F3 (>C16-C34 range)	n/g	**0.500**	mg/L	<0.25	<0.25	<0.25	**1.52**	**1.03**	<0.25	<0.25	<0.25
PHC F4 (>C34-C50 range)	n/g	**0.500**	mg/L	<0.25	<0.25	<0.25	0.46	0.28	<0.25	<0.25	<0.25

[a] *Federal Contaminated Sites Action Plan (FCSAP), Guidance Document on Federal Interim Groundwater Quality Guidelines for Federal Contaminated Sites (2016) - Generic Guidelines for Commercial and Industrial Land Uses, Fine Grained Soil.*

[b] *Ontario Ministry of the Environment (MOE) Soil Quality Guidelines (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (All Types of Property Use)*

mg/L: milligrams per litres

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Groundwater Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 10: Groundwater Analytical Results - Polycyclic Aromatic Hydrocarbons

			Sample Location	MW22-01	MW22-02	MW22-03	MW22-04	MW22-10 (Dup of MW22-04)	MW22-05	17-03	18-04 [1]
			Sample Date	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022
			Sample ID	MW22-01	MW22-02	MW22-03	MW22-04	MW22-10	MW22-05	17-03	18-04
Parameter	GQG [a]	MOE [b]	Units								
Acenaphthene	**NG**	1.7	mg/L	0.000027	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	NA
Acenaphthylene	**NG**	0.0018	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	NA
Acridine	**NG**	NG	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	NA
Anthracene	**0.32**	0.0024	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	0.000010	<0.000010	<0.000010	NA
Benzo(a)anthracene	**NG**	0.0047	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	0.000011	<0.000010	<0.000010	NA
Benzo(a)pyrene	0.0066	0.00081	mg/L	<0.0000050	<0.0000050	<0.0000050	0.0000214	0.0000185	<0.0000050	<0.0000050	NA
Benzo(b&j)fluoranthene	**NG**	0.00075	mg/L	<0.000010	<0.000010	<0.000010	0.000021	0.000017	<0.000010	<0.000010	NA
Benzo(g,h,i)perylene	**NG**	0.0002	mg/L	<0.000020	<0.000020	<0.000020	0.000020	<0.000020	<0.000020	<0.000020	NA
Benzo(k)fluoranthene	**NG**	0.0004	mg/L	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	NA
Chrysene	**NG**	0.001	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	NA
Dibenz(a,h)anthracene	**NG**	0.00052	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050	NA
Fluoranthene	**0.86**	0.13	mg/L	<0.000020	<0.000020	<0.000020	0.000025	0.000025	<0.000020	<0.000020	NA
Fluorene	**NG**	0.4	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	NA
Indeno(1,2,3-cd)pyrene	**NG**	0.0002	mg/L	<0.000010	<0.000010	<0.000010	0.000016	0.000012	<0.000010	<0.000010	NA
1-Methylnaphthalene	**150**	1.8	mg/L	0.000306	<0.000020	<0.000020	0.000052	0.000050	<0.000020	<0.000020	NA
2-Methylnaphthalene	**150**	1.8	mg/L	0.000046	<0.000020	<0.000020	0.000090	0.000086	<0.000020	<0.000020	NA
Naphthalene	**NG**	6.4	mg/L	<0.000050	<0.000050	<0.000050	0.000088	0.000085	<0.000050	<0.000050	NA
Phenanthrene	**NG**	0.58	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	NA
Pyrene	**NG**	0.068	mg/L	<0.000010	0.000011	<0.000010	0.000052	0.000048	<0.000010	<0.000010	NA
Quinoline	**NG**	NG	mg/L	<0.000054	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	NA

[a] Federal Contaminated Sites Action Plan (FCSAP), Guidance Document on Federal Interim Groundwater Quality Guidelines for Federal Contaminated Sites (2016) - Generic Guidelines for Commercial and Industrial Land Uses, Fine Grained Soil.

[b] Ontario Ministry of the Environment (MOE) Soil Quality Guidelines (2011) - Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (All Types of Property Use)

mg/L: milligrams per litres

< :Denotes concentration less than indicated detection limit

n/g: no guideline

[1] Sample broke in transit between labs and analysis could not be completed

NA: Not Analyzed

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Groundwater Quality Guideline*

			Monitoring Well ID	MW22-01	MW22-02	MW22-03	MW22-04	MW22-10 (Dup of MW22-04)	MW22-05	17-03	18-04
			Date Sampled (mm/dd/yyyy)	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022
	GQG [a]	GQG [b]	Units								
Acetone	**110,000**	130	mg/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromobenzene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bromochloromethane	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bromodichloromethane	NG	**85**	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Bromoform	**13**	0.77	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Bromomethane	**0.23**	0.056	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
n-Butylbenzene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
sec-Butylbenzene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
tert-Butylbenzene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Carbon disulfide	**NG**	NG	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Carbon Tetrachloride	**0.078**	0.0084	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chlorobenzene	**2.2**	0.630	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dibromochloromethane	**250**	82	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chloroethane	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chloroform	NG	**0.022**	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Chloromethane	**NG**	NG	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2-Chlorotoluene	**NG**	NG	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
4-Chlorotoluene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dibromo-3-chloropropane	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dibromoethane	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dibromomethane	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2-Dichlorobenzene	NG	**9.6**	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	NG	**9.6**	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,4-Dichlorobenzene	**32**	0.067	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dichlorodifluoromethane	NG	**4.4**	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1-dichloroethane	**44**	3.1	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2-Dichloroethane	**1.2**	0.012	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,1-dichloroethene	**4.5**	0.017	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	**0.23**	0.017	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
trans-1,2-Dichloroethene	**0.23**	0.017	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Dichloromethane	**410**	NG	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
1,2-Dichloropropane	**2**	0.140	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3-Dichloropropane	**0.61**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
2,2-Dichloropropane	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1-Dichloropropene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
cis-1,3-Dichloropropene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
trans-1,3-Dichloropropene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Hexachlorobutadiene	**0.22**	0.0045	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Hexane	NG	**0.520**	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
2-Hexanone (Methyl butyl ketone)	**2,500**	580	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Isopropylbenzene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
4-Isopropyltoluene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
MEK	**NG**	NG	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
MIBK	**NG**	NG	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
MTBE	**40**	1.4	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Styrene	NG	**9.1**	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1,1,2-Tetrachloroethane	**0.38**	0.028	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	**0.21**	0.015	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Tetrachloroethene	**NG**	0.017	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	**6.9**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2,4-Trichlorobenzene	**6.1**	0.850	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,1,1-Trichloroethane	**95**	6.7	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	**0.41**	0.030	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Trichloroethene	**2.8**	0.017	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
Trichlorofluoromethane	**NG**	2.5	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,2,4-Trimethylbenzene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	**NG**	NG	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Vinyl Chloride	**0.12**	0.0017	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050

[a] *Groundwater Quality Guidelines for Federal Contaminated Sites (2016) - Generic Guidelines for Commercial and Industrial Land Uses, Fine Grained Soil.*

[b] *Ontario Ministry of the Environment (MOE) Soil Quality Guidelines (2011) - Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (All Types of Property Use)*

All results and water quality guidelines in mg/L, unless otherwise noted.

GQG - groundwater quality guideline.

mg/L - milligram per Litre.

NG - No Guideline.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Groundwater Quality Guideline*

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 12: Groundwater Analytical Results - Dissolved Metals

AECOM

Monitoring Well ID				MW22-01	MW22-02	MW22-03	MW22-04	MW22-10 (Dup of MW22-04)	MW22-05	17-03	18-04
Date Sampled				9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022	9-Nov-2022
	GQG [a]	MOE [b]	Units								
Aluminum (Al)-Dissolved	**NG**	NG	mg/L	0.0037	0.0036	0.0032	0.334	0.0771	0.0018	0.0213	0.0170
Antimony (Sb)-Dissolved	NG	**20**	mg/L	0.00024	0.00030	0.00042	0.00076	0.00077	0.00011	<0.00010	0.00026
Arsenic (As)-Dissolved	NG	**1.9**	mg/L	0.00159	0.00324	0.00313	0.00399	0.00393	0.00077	0.00083	0.00109
Barium (Ba)-Dissolved	NG	**29**	mg/L	0.0651	0.0526	0.0758	0.0318	0.0282	0.0548	0.0189	0.0402
Beryllium (Be)-Dissolved	NG	**0.067**	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Bismuth (Bi)-Dissolved	**NG**	NG		<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Boron (B)-Dissolved	NG	**45**	mg/L	0.307	0.290	0.604	0.286	0.299	0.178	0.370	0.160
Cadmium (Cd)-Dissolved	NG	**0.0027**	mg/L	0.0000897	0.0000528	0.000113	0.000130	0.0000318	0.000116	<0.0000050	0.000138
Calcium (Ca)-Dissolved	**NG**	NG	mg/L	262	263	379	584	593	280	86.0	417
Cesium (Cs)-Dissolved	**NG**	NG	mg/L	0.000011	0.000014	0.000011	0.000026	<0.000010	<0.000010	<0.000010	0.000012
Chromium (Cr)-Dissolved	NG	**0.810**	mg/L	0.00039	0.00138	0.00256	0.00852	0.00230	0.00021	<0.00010	0.00024
Cobalt (Co)-Dissolved	NG	**0.066**	mg/L	0.00439	0.00065	0.00053	0.00780	0.00763	0.00058	0.00017	0.00136
Copper (Cu)-Dissolved	NG	**0.087**	mg/L	0.00390	0.00846	0.00961	0.00678	0.00363	0.00257	<0.00020	0.00246
Iron (Fe)-Dissolved	**NG**	NG	mg/L	<0.010	<0.010	<0.010	2.25	2.00	<0.010	0.429	0.136
Lead (Pb)-Dissolved	NG	**0.025**	mg/L	0.000070	<0.000050	0.000131	0.00914	0.00232	<0.000050	<0.000050	0.000160
Lithium (Li)-Dissolved	**NG**	NG	mg/L	0.359	0.693	1.21	0.324	0.308	0.213	0.0798	0.334
Magnesium (Mg)-Dissolved	**NG**	NG	mg/L	371	1080	786	572	576	252	71.0	348
Manganese (Mn)-Dissolved	**NG**	NG	mg/L	1.85	0.198	0.149	4.12	4.06	0.367	0.0187	1.55
Molybdenum (Mo)-Dissolved	NG	**9.2**	mg/L	0.00975	0.0248	0.0312	0.00508	0.00562	0.00609	0.000581	0.00542
Nickel (Ni)-Dissolved	NG	**0.490**	mg/L	0.0233	0.00883	0.0151	0.0404	0.0392	0.00996	0.00070	0.0290
Phosphorus (P)-Dissolved	**NG**	NG	mg/L	0.097	0.222	0.281	0.613	0.531	<0.030	<0.030	0.036
Potassium (K)-Dissolved	**NG**	NG	mg/L	5.45	9.21	8.98	6.67	6.61	6.21	12.0	7.87
Rubidium (Rb)-Dissolved	**NG**	NG	mg/L	0.00285	0.00279	0.00302	0.00246	0.00206	0.00136	0.00469	0.00148
Selenium (Se)-Dissolved	NG	**0.063**	mg/L	0.000239	0.00629	0.000802	0.000496	0.000594	0.000081	<0.000050	0.00278
Silicon (Si)-Dissolved	**NG**	NG	mg/L	14.2	10.3	13.7	10.8	10.4	12.2	5.89	10.8
Silver (Ag)-Dissolved	NG	**0.0015**	mg/L	0.000016	0.000017	0.000054	0.000073	0.000053	<0.000010	<0.000010	<0.000010
Sodium (Na)-Dissolved	NG	**2300**	mg/L	166	781	883	340	343	139	166	300
Strontium (Sr)-Dissolved	**NG**	NG	mg/L	1.76	2.78	2.88	2.73	2.62	1.32	0.687	2.06
Sulfur (S)-Dissolved	**NG**	NG	mg/L	340	1480	1140	872	922	246	64.9	632
Tellurium (Te)-Dissolved	**NG**	NG	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium (Tl)-Dissolved	NG	**0.510**	mg/L	0.000032	0.000031	0.000037	<0.000010	<0.000010	0.000015	<0.000010	0.000013
Thorium (Th)-Dissolved	**NG**	NG	mg/L	<0.00010	<0.00010	<0.00010	0.00017	<0.00010	<0.00010	<0.00010	<0.00010
Tin (Sn)-Dissolved	**NG**	NG	mg/L	0.00145	0.00073	0.00104	0.00055	0.00032	0.00044	<0.00010	0.00012
Titanium (Ti)-Dissolved	**NG**	NG	mg/L	0.00055	0.00085	0.00097	0.00989	0.00275	<0.00030	0.00069	0.00058
Tungsten (W)-Dissolved	**NG**	NG	mg/L	<0.00010	0.00010	0.00020	0.00093	0.00107	<0.00010	0.00325	<0.00010
Uranium (U)-Dissolved	NG	**0.420**	mg/L	0.0353	0.308	0.365	0.0406	0.0401	0.0162	0.00115	0.0618
Vanadium (V)-Dissolved	NG	**0.250**	mg/L	0.00232	0.00216	0.00322	0.00310	0.00237	0.00104	<0.00050	0.00150
Zinc (Zn)-Dissolved	NG	**1.1**	mg/L	0.0150	0.0033	0.0062	0.0233	0.0101	0.0026	0.0011	0.170
Zirconium (Zr)-Dissolved	**NG**	NG	mg/L	0.00664	0.00946	0.0143	0.00501	0.00443	0.00140	<0.00020	0.00141

[a] *Federal Contaminated Sites Action Plan (FCSAP), Guidance Document on Federal Interim Groundwater Quality Guidelines for Federal Contaminated Sites (2016) - Generic Guidelines for Commercial and Industrial Land Uses, Fine Grained Soil.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

All results and water quality guidelines in mg/L, unless otherwise noted.

mg/L - milligram per Litre.

NG - No Guideline.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Groundwater Quality Guideline*

Table 13. Quality Assurance/Quality Control - Soil Petroleum Hydrocarbons

				Sample Location	BH22-05				BH22-07	BH22-07			BH22-14	BH22-14			BH22-15	BH22-15			BH22-18	BH22-18		
				Sample Date (mm/dd/yyyy)	31-Oct-22				1-Nov-22				3-Nov-22				4-Nov-22				6-Nov-22			
				Sample ID	BH22-05-SS06	BH22-07-SS08 (Dup of BH22-05-SS06)	RPD (%)	Difference	BH22-07-SS05	BH22-07-SS06 (Dup of BH22-07-SS05)	RPD (%)	Difference	BH22-14-SS01	BH22-14-SS14 (Dup of BH22-14-SS01)	RPD (%)	Difference	BH22-15-SS03	BH22-15-SS06 (Dup OF BH22-15-SS03)	RPD (%)	Difference	BH22-18-SS03	BH22-18-SS06 (Dup of BH22-18-SS02)	RPD (%)	Difference
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)																				
Petroleum Hydrocarbons																								
Benzene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC
Toluene	mg/kg	0.050	100	0.10	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Ethylbenzene	mg/kg	0.015	100	0.030	<0.015	<0.015	NC	NC	<0.015	<0.015	NC	NC	<0.015	<0.015	NC	NC	<0.015	<0.015	NC	NC	<0.015	<0.015	NC	NC
Xylenes	mg/kg	0.071	100	0.142	<0.071	<0.071	NC	NC	<0.071	<0.071	NC	NC	<0.071	<0.071	NC	NC	<0.071	<0.071	NC	NC	<0.071	<0.071	NC	NC
F1	mg/kg	10	60	20	<10	<10	NC	NC	<10	<10	NC	NC	<10	<10	NC	NC	<10	<10	NC	NC	<10	<10	NC	NC
F2	mg/kg	25	80	50	<25	<25	NC	NC	<25	<25	NC	NC	<25	<25	NC	NC	<25	<25	NC	NC	<25	<25	NC	NC
F3	mg/kg	50	80	100	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC
F4	mg/kg	50	80	100	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.

NC - Not Calculated (Result is below 5x the detection limit).

NA - Not Applicable (Result is more than 5x the detection limit).

RPD - Relative Percent Difference.

mg/kg - milligram per kilogram.

% - Percent.

< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Table 13. Quality Assurance/Quality Control - Soil Petroleum Hydrocarbons

				Sample Location	BH22-21	BH22-21			BH22-22	BH22-22			BH22-25	BH22-25			MW22-03	MW22-03		
				Sample Date (mm/dd/yyyy)	5-Nov-22				5-Nov-22				5-Nov-22				5-Nov-22			
				Sample ID	BH22-21-SS02	BH22-21-SS-04 (Dup of BH22-21-SS02)	RPD (%)	Difference	BH22-22-SS04	BH22-22-SS08 (Dup of BH22-22-SS04	RPD (%)	Difference	BH22-25-SS03	BH22-25-SS05 (Dup of BH22-25-SS03)	RPD (%)	Difference	MW22-03-SS02	MW22-SS-06 (Dup of MW22 03-SS02)	RPD (%)	Difference
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)																
Petroleum Hydrocarbons																				
Benzene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC
Toluene	mg/kg	0.050	100	0.10	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	0.071	0.070	NC	NC	<0.050	<0.050	NC	NC
Ethylbenzene	mg/kg	0.015	100	0.030	<0.015	<0.015	NC	NC	<0.015	<0.015	NC	NC	0.017	0.019	NC	NC	<0.015	<0.015	NC	NC
Xylenes	mg/kg	0.071	100	0.142	<0.071	<0.071	NC	NC	<0.071	<0.071	NC	NC	<0.071	<0.071	NC	NC	<0.071	<0.071	NC	NC
F1	mg/kg	10	60	20	<10	<10	NC	NC	<10	<10	NC	NC	<10	<10	NC	NC	<10	<10	NC	NC
F2	mg/kg	25	80	50	<25	<25	NC	NC	<25	<25	NC	NC	249	499	NC	NC	257	383	NC	NC
F3	mg/kg	50	80	100	<50	<50	NC	NC	<50	<50	NC	NA	4320	6380	38.5	NA	6830	11800	53.4	NA
F4	mg/kg	50	80	100	<50	<50	NC	NC	<50	<50	NC	NA	1560	2250	36.2	NA	2680	4610	52.9	NA

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.

NC - Not Calculated (Result is below 5x the detection limit).

NA - Not Applicable (Result is more than 5x the detection limit).

RPD - Relative Percent Difference.

mg/kg - milligram per kilogram.

% - Percent.

< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Table 14. Quality Assurance/Quality Control - Soil Volatile Organic Carbons

Sample Location					BH22-05				BH22-07	BH22-07			BH22-14	BH22-14			BH22-15	BH22-15			BH22-18	BH22-18		
Sample Date (mm/dd/yyyy)					31-Oct-22				1-Nov-22				3-Nov-22				4-Nov-22				6-Nov-22			
Sample ID					BH22-05-SS06	BH22-07-SS08 (Dup of BH22-05-SS06)	RPD (%)	Difference	BH22-07-SS05	BH22-07-SS06 (Dup of BH22-07-SS05)	RPD (%)	Difference	BH22-14-SS01	BH22-14-SS14 (Dup of BH22-14-SS01)	RPD (%)	Difference	BH22-15-SS03	BH22-15-SS06 (Dup OF BH22-15-SS03)	RPD (%)	Difference	BH22-18-SS03	BH22-18-SS06 (Dup of BH22-18-SS02)	RPD (%)	Difference
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)																				
VOC																								
Bromodichloromethane	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Bromoform	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Bromomethane	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Tetrachloromethane (Carbon Tetrachloride)	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Chloroethane	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichloromethane (Chloroform)	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Chloromethane (Methyl Chloride)	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	0.053	NC	NC
Dibromochloromethane [DBCM]	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dibromoethane, 1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichlorobenzene, 1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichlorobenzene,1,3-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichlorobenzene,1,4-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloroethane, 1,1-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloroethane, 1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloroethene, 1,1-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloroethene, 1,2- cis-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloroethene, 1,2- trans-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloromethane (Methylene chloride)	mg/kg	0.10	100	0.200	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC
Dichloropropane, 1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloropropene, 1,3- cis-	mg/kg	0.10	100	0.200	<0.050	<0.050	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC
Dichloropropene, 1,3- trans-	mg/kg	0.10	100	0.200	<0.050	<0.050	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC
Chlorobenzene	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Tetrachloroethane, 1,1,2,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Tetrachloroethane,1,1,1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichlorobenzene, 1,2,3-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichlorobenzene, 1,2,4-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichloroethane, 1,1,1-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichloroethane, 1,1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichlorofluoromethane	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trimethylbenzene, 1,2,4-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trimethylbenzene, 1,3,5-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Vinyl chloride	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.
NC - Not Calculated (Result is below 5x the detection limit).
NA - Not Applicable (Result is more than 5x the detection limit).
RPD - Relative Percent Difference.
mg/kg - milligram per kilogram.
mg/L - milligram per litre.
% - Percent.
dS/m - deciSiemens per metre.
SAR - Sodium Absorption Ratio.
< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Table 14. Quality Assurance/Quality Control - Soil Volatile Organic Carb

Sample Location					BH22-21	BH22-21			BH22-22	BH22-22			BH22-25	BH22-25			MW22-03	MW22-03		
Sample Date (mm/dd/yyyy)					5-Nov-22				5-Nov-22				5-Nov-22				5-Nov-22			
Sample ID					BH22-21-SS02	BH22-21-SS-04 (Dup of BH22-21-SS02)	RPD (%)	Difference	BH22-22-SS04	BH22-22-SS08 (Dup of BH22-22-SS04	RPD (%)	Difference	BH22-25-SS03	BH22-25-SS05 (Dup of BH22-25-SS03)	RPD (%)	Difference	MW22-03-SS02	MW22-SS-06 (Dup of MW22-03-SS02)	RPD (%)	Difference
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)																
VOC																				
Bromodichloromethane	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Bromoform	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Bromomethane	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Tetrachloromethane (Carbon Tetrachloride)	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Chloroethane	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichloromethane (Chloroform)	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Chloromethane (Methyl Chloride)	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	0.059	NC	NC	<0.050	<0.050	NC	NC
Dibromochloromethane [DBCM]	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dibromoethane, 1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichlorobenzene, 1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	0.085	0.112	27.4	0.03	<0.050	<0.050	NC	NC
Dichlorobenzene,1,3-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichlorobenzene,1,4-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	0.332	0.344	3.6	0.01	0.180	0.092	64.7	NA
Dichloroethane, 1,1-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloroethane, 1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloroethene, 1,1-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloroethene, 1,2- cis-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloroethene, 1,2- trans-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloromethane (Methylene chloride)	mg/kg	0.10	100	0.200	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC
Dichloropropane, 1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dichloropropene, 1,3- cis-	mg/kg	0.10	100	0.200	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC
Dichloropropene, 1,3- trans-	mg/kg	0.10	100	0.200	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC	<0.10	<0.10	NC	NC
Chlorobenzene	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Tetrachloroethane, 1,1,2,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Tetrachloroethane,1,1,1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.20	<0.20	NC	NC	<0.050	<0.050	NC	NC
Trichlorobenzene, 1,2,3-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichlorobenzene, 1,2,4-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichloroethane, 1,1,1-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichloroethane, 1,1,2-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trichlorofluoromethane	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Trimethylbenzene, 1,2,4-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	0.097	0.101	4.04	0.00	<0.050	<0.050	NC	NC
Trimethylbenzene, 1,3,5-	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Vinyl chloride	mg/kg	0.050	100	0.100	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.
NC - Not Calculated (Result is below 5x the detection limit).
NA - Not Applicable (Result is more than 5x the detection limit).
RPD - Relative Percent Difference.
mg/kg - milligram per kilogram.
mg/L - milligram per litre.
% - Percent.
dS/m - deciSiemens per metre.
SAR - Sodium Absorption Ratio.
< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Table 15. Quality Assurance/Quality Control for Soil Polycyclic Aromatic Hydrocarbons

Sample Location					BH22-07	BH22-07			BH22-14	BH22-14			BH22-22	BH22-22		
Sample Date					1-Nov-22				3-Nov-22				5-Nov-22			
Sample ID					BH22-07-SS05	BH22-07-SS06 (Dup of BH22-07-SS05)	RPD (%)	Difference	BH22-14-SS01	BH22-14-SS14 (Dup of BH22-14-SS01)	RPD (%)	Difference	BH22-22-SS04	BH22-22-SS08 (Dup of BH22-22-SS04	RPD (%)	Difference
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)												
Benzo(a)pyrene total potency equivalents	mg/kg	0.0071	100	0.0142	<0.020	<0.020	NC	NC	0.702	0.095	38.1	0.6	<0.020	<0.020	NC	NA
Acenaphthene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	0.143	<0.0050	NC	NC	<0.0050	<0.0050	NC	NA
Acenaphthylene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	0.0269	0.0064	30.8	NA	<0.0050	<0.0050	NC	NA
Acridine	mg/kg	0.010	100	0.020	<0.010	<0.010	NC	NC	0.041	<0.010	NC	NC	<0.010	<0.010	NC	NA
Anthracene	mg/kg	0.0040	100	0.0080	<0.0040	<0.0040	NC	NC	0.287	0.0097	46.7	NA	<0.0040	<0.0040	NC	NA
Fluorene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	0.182	<0.0050	NC	NC	<0.0050	<0.0050	NC	NA
Naphthalene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	0.172	<0.0050	NC	NC	<0.0050	<0.0050	NC	NA
Phenanthrene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	1.29	0.0322	47.6	NA	<0.0050	<0.0050	NC	NA
Benz(a)anthracene	mg/kg	0.0050	100	0.010	<0.010	<0.010	NC	NC	0.627	0.058	41.5	NA	<0.010	<0.010	NC	NA
Benzo(a)pyrene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	0.471	0.0653	37.8	NA	<0.0050	<0.0050	NC	NA
Benzo(b+j)fluoranthene	mg/kg	0.0050	100	0.010	<0.010	<0.010	NC	NC	0.554	0.075	38.1	NA	<0.010	<0.010	NC	NA
Benzo(g,h,i)perylene	mg/kg	0.0050	100	0.010	<0.010	<0.010	NC	NC	0.178	0.040	31.7	NA	<0.010	<0.010	NC	NA
Benzo(k)fluoranthene	mg/kg	0.0050	100	0.010	<0.010	<0.010	NC	NC	0.201	0.026	38.5	NA	<0.010	<0.010	NC	NA
Chrysene	mg/kg	0.0050	100	0.010	<0.010	<0.010	NC	NC	0.553	0.056	40.8	NA	<0.010	<0.010	NC	NA
Dibenz(a,h)anthracene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	0.0652	0.0094	37.4	NA	<0.0050	<0.0050	NC	NA
Fluoranthene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	1.27	0.0703	44.8	NA	<0.0050	<0.0050	NC	NA
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0050	100	0.010	<0.010	<0.010	NC	NC	0.204	0.038	34.3	NA	<0.010	<0.010	NC	NA
Methylnaphthalene, 1-	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	0.0669	<0.0050	NC	NC	<0.0050	<0.0050	NC	NA
Methylnaphthalene, 2-	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	0.0921	<0.0050	NC	NC	<0.0050	<0.0050	NC	NA
Pyrene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	1.03	0.0619	44.3	NA	<0.0050	<0.0050	NC	NA
Quinoline	mg/kg	0.010	100	0.020	<0.0050	<0.0050	NC	NC	0.0076	<0.0050	NC	NC	<0.0050	<0.0050	NC	NA

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.

NC - Not Calculated (Result is below 5x the detection limit).

NA - Not Applicable (Result is more than 5x the detection limit).

RPD - Relative Percent Difference.

mg/kg - milligram per kilogram.

% - Percent.

< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Table 16. Quality Assurance/Quality Control - Soil Metals

					Sample Location	BH22-05			BH22-07	BH22-07			BH22-14	BH22-14			BH22-15	BH22-15			BH22-18	BH22-18		
					Sample Date	31-Oct-22			1-Nov-22				3-Nov-22				4-Nov-22				6-Nov-22			
					Sample ID	BH22-05-SS06	BH22-07-SS08 (Dup of BH22-05-SS06)	RPD (%)	Difference	BH22-07-SS05	BH22-07-SS06 (Dup of BH22-07-SS05)	RPD (%)	Difference	BH22-14-SS01	BH22-14-SS14 (Dup of BH22-14-SS01)	RPD (%)	Difference	BH22-15-SS03	BH22-15-SS06 (Dup OF BH22-15-SS03)	RPD (%)	Difference	BH22-18-SS03	BH22-18-SS06 (Dup of BH22-18-SS02)	RPD (%)	Difference
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)																				
Antimony (Sb)	mg/kg	0.10	100	0.20	0.47	0.51	8.2	NA	0.24	0.20	18.2	NA	0.67	0.45	39.3	NA	0.13	<0.10	NC	NC	0.41	0.69	50.9	NA
Arsenic (As)	mg/kg	0.10	100	0.20	10.0	9.91	0.9	NA	4.72	4.68	0.9	NA	7.40	6.08	19.6	NA	2.82	2.34	18.6	NA	9.38	9.73	3.7	NA
Barium (Ba)	mg/kg	0.50	100	1.00	253	249	1.6	NA	115	101	13.0	NA	212	191	10.4	NA	60.6	52.6	14.1	NA	195	266	30.8	NA
Beryllium (Be)	mg/kg	0.10	100	0.20	0.47	0.61	25.9	NA	0.47	0.44	6.6	NA	0.84	0.71	16.8	NA	0.28	0.22	24.0	NA	1.32	1.38	4.4	NA
Bismuth (Bi)	mg/kg	0.20	100	0.40	<0.20	0.20	NC	NA	<0.20	<0.20	NC	NA	1.46	0.29	133.7	NA	<0.20	<0.20	NC	NC	0.35	0.61	54.2	NA
Boron (B)	mg/kg	5.0	100	10.0	8.1	9.0	10.5	NA	15.2	15.2	0.0	NA	18.5	20.2	8.8	NA	12.1	14.4	17.4	NA	17.9	21.0	15.9	NA
Cadmium (Cd)	mg/kg	0.020	100	0.040	0.302	0.402	28.4	NA	0.227	0.207	9.2	NA	0.421	0.329	24.5	NA	0.121	0.092	27.2	NA	0.749	1.17	43.9	NA
Calcium (Ca)	mg/kg	50	100	100	46400	42200	9.5	NA	76800	78000	1.6	NA	57900	77800	29.3	NA	94100	147000	43.9	NA	11400	17300	41.1	NA
Chromium (Cr)	mg/kg	0.50	100	1.00	17.1	22.0	25.1	NA	25.2	24.0	4.9	NA	52.5	40.7	25.3	NA	16.8	15.2	10.0	NA	79.8	144	57.4	NA
Cobalt (Co)	mg/kg	0.10	100	0.20	5.43	7.92	37.3	NA	7.46	6.67	11.2	NA	11.1	10.2	8.5	NA	4.39	3.32	27.8	NA	15.3	17.1	11.1	NA
Copper (Cu)	mg/kg	0.50	100	1.0	21.7	24.5	12.1	NA	18.2	16.3	11.0	NA	34.6	27.1	24.3	NA	10.8	7.39	37.5	NA	39.1	57.6	38.3	NA
Iron (Fe)	mg/kg	50	100	100	20900	22200	6.0	NA	15100	14400	4.7	NA	24200	21500	11.8	NA	10300	8750	16.3	NA	35200	34700	1.4	NA
Lead (Pb)	mg/kg	0.50	100	1.0	9.97	11.2	11.6	NA	7.97	6.90	14.4	NA	33.4	31.7	5.2	NA	4.53	3.55	24.3	NA	23.8	49.2	69.6	NA
Lithium (Li)	mg/kg	2.0	100	4.0	12.8	16.0	22.2	NA	17.3	16.1	7.2	NA	27.7	22.4	21.2	NA	11.7	9.9	16.7	NA	29.0	32.5	11.4	NA
Magnesium (Mg)	mg/kg	20	100	40	16900	15700	7.4	NA	49500	52400	5.7	NA	35100	46700	28.4	NA	55900	81400	37.1	NA	15900	17700	10.7	NA
Manganese (Mn)	mg/kg	1.0	100	2.0	294	383	26.3	NA	417	394	5.7	NA	483	479	0.8	NA	286	250	13.4	NA	443	621	33.5	NA
Molybdenum (Mo)	mg/kg	0.10	100	0.20	1.44	1.46	1.4	NA	0.65	0.55	16.7	NA	0.72	0.67	7.2	NA	0.33	0.22	40.0	NA	0.46	0.57	21.4	NA
Nickel (Ni)	mg/kg	0.50	100	1.0	22.5	26.2	15.2	NA	23.3	20.8	11.3	NA	34.0	29.2	15.2	NA	13.8	10.0	31.9	NA	45.8	49.1	7.0	NA
Phosphorus (P)	mg/kg	50	100	100	709	679	4.3	NA	520	554	6.3	NA	635	655	3.1	NA	434	415	4.5	NA	692	1070	42.9	NA
Potassium (K)	mg/kg	100	100	200	1330	1790	29.5	NA	2280	2210	3.1	NA	3460	3800	9.4	NA	1520	1250	19.5	NA	5380	5470	1.7	NA
Selenium (Se)	mg/kg	0.20	100	0.40	0.86	1.03	18.0	NA	<0.20	<0.20	NC	NA	0.26	0.22	16.7	NA	<0.20	<0.20	NC	NC	<0.20	0.24	NC	NC
Silver (Ag)	mg/kg	0.10	100	0.20	0.11	0.13	16.7	NA	<0.10	<0.10	NC	NA	0.62	0.30	69.6	NA	<0.10	<0.10	NC	NC	0.89	2.37	90.8	NA
Sodium (Na)	mg/kg	50	100	100	292	331	12.5	NA	329	337	2.4	NA	875	829	5.4	NA	459	400	13.7	NA	779	817	4.8	NA
Strontium (Sr)	mg/kg	0.50	100	1.0	77.2	77.8	0.8	NA	55.6	51.1	8.4	NA	76.8	69.5	10.0	NA	43.6	55.2	23.5	NA	53.5	65.7	20.5	NA
Sulfur (S)	mg/kg	1,000	100	2,000	7900	8800	10.8	NA	<1000	<1000	NC	NA	1200	<1000	NC	NA	<1000	<1000	NC	NC	<1000	1000	NC	NC
Thallium (Tl)	mg/kg	0.050	100	0.10	0.143	0.186	26.1	NA	0.205	0.185	10.3	NA	0.284	0.249	13.1	NA	0.119	0.085	33.3	NA	0.340	0.396	15.2	NA
Tin (Sn)	mg/kg	2.0	100	4.0	<2.0	<2.0	NC	NA	<2.0	<2.0	NC	NA	3.1	<2.0	NC	NA	<2.0	<2.0	NC	NC	3.0	7.1	81.2	NA
Titanium (Ti)	mg/kg	1.0	100	2.0	142	124	13.5	NA	359	409	13.0	NA	311	376	18.9	NA	354	414	15.6	NA	152	163	7.0	NA
Tungsten (W)	mg/kg	0.50	100	1.0	<0.50	<0.50	NC	NA	<0.50	<0.50	NC	NA	<0.50	<0.50	NC	NA	<0.50	<0.50	NC	NC	<0.50	<0.50	NC	NC
Uranium (U)	mg/kg	0.050	100	0.10	1.91	2.05	7.1	NA	1.03	0.918	11.5	NA	1.70	1.30	26.7	NA	0.719	0.689	4.3	NA	1.06	1.71	46.9	NA
Vanadium (V)	mg/kg	0.20	100	0.40	31.6	38.4	19.4	NA	39.7	38.2	3.9	NA	65.1	60.6	7.2	NA	26.0	21.8	17.6	NA	96.6	101	4.5	NA
Zinc (Zn)	mg/kg	2.0	100	4.0	56.3	63.9	12.6	NA	41.5	37.4	10.4	NA	89.4	73.9	19.0	NA	23.8	16.1	38.6	NA	139	218	44.3	NA
Zirconium (Zr)	mg/kg	1.0	100	2.0	11.1	11.4	2.7	NA	12.5	11.9	4.9	NA	12.4	12.5	0.8	NA	8.9	9.3	4.4	NA	9.9	8.2	18.8	NA

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.
NC - Not Calculated (Result is below 5x the detection limit).
NA - Not Applicable (Result is more than 5x the detection limit).
RPD - Relative Percent Difference.
mg/kg - milligram per kilogram.
mg/L - milligram per litre.
% - Percent.
< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Table 16. Quality Assurance/Quality Control - Soil Metals

					Sample Location	BH22-21	BH22-21			BH22-22	BH22-22			BH22-25	BH22-25			MW22-03	MW22-03		
					Sample Date	5-Nov-22				5-Nov-22				5-Nov-22				5-Nov-22			
					Sample ID	BH22-21-SS02	BH22-21-SS-04 (Dup of BH22-21-SS02)	RPD (%)	Difference	BH22-22-SS04	BH22-22-SS08 (Dup of BH22-22-SS04	RPD (%)	Difference	BH22-25-SS03	BH22-25-SS05 (Dup of BH22-25-SS03)	RPD (%)	Difference	MW22-03-SS02	MW22-SS-06 (Dup of MW22-03-SS02)	RPD (%)	Difference
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)																	
Antimony (Sb)	mg/kg	0.10	100	0.20		0.30	0.36	18.2	NA	<0.10	0.13	NC	NC	1.12	7.95	**150.6**	NA	8.40	5.05	49.8	NA
Arsenic (As)	mg/kg	0.10	100	0.20		7.39	7.45	0.8	NA	2.47	3.24	27.0	NA	9.51	14.9	44.2	NA	18.6	13.6	31.1	NA
Barium (Ba)	mg/kg	0.50	100	1.00		207	306	38.6	NA	50.8	60.5	17.4	NA	322	714	75.7	NA	732	577	23.7	NA
Beryllium (Be)	mg/kg	0.10	100	0.20		1.24	1.30	4.7	NA	0.22	0.31	34.0	NA	1.32	0.67	65.3	NA	0.75	0.86	13.7	NA
Bismuth (Bi)	mg/kg	0.20	100	0.40		0.27	0.25	7.7	NA	<0.20	<0.20	NC	NC	0.78	7.32	**161.5**	NA	8.67	5.00	53.7	NA
Boron (B)	mg/kg	5.0	100	10.0		22.4	28.1	22.6	NA	12.5	12.8	2.4	NA	26.7	22	19.3	NA	25	26	3.9	NA
Cadmium (Cd)	mg/kg	0.020	100	0.040		0.297	0.507	52.2	NA	0.085	0.124	37.3	NA	1.39	21.5	**175.7**	NA	22.2	14.0	45.3	NA
Calcium (Ca)	mg/kg	50	100	100		11300	43100	**116.9**	NA	126000	109000	14.5	NA	61500	57400	6.9	NA	52700	57600	8.9	NA
Chromium (Cr)	mg/kg	0.50	100	1.00		51.9	57.4	10.1	NA	14.4	17.8	21.1	NA	119	1550	**171.5**	NA	1910	1120	52.1	NA
Cobalt (Co)	mg/kg	0.10	100	0.20		15.5	15.9	2.5	NA	3.53	5.04	35.2	NA	13.5	8.00	51.2	NA	7.97	10.7	29.2	NA
Copper (Cu)	mg/kg	0.50	100	1.0		29.9	31.2	4.3	NA	7.98	11.1	32.7	NA	59.8	511	**158.1**	NA	551	339	47.6	NA
Iron (Fe)	mg/kg	50	100	100		32500	35400	8.5	NA	8600	11000	24.5	NA	36800	18200	67.6	NA	15300	21500	33.7	NA
Lead (Pb)	mg/kg	0.50	100	1.0		13.2	13.1	0.8	NA	3.58	4.91	31.3	NA	69.4	675	**162.7**	NA	677	426	45.5	NA
Lithium (Li)	mg/kg	2.0	100	4.0		32.1	32.5	1.2	NA	9.5	11.8	21.6	NA	41.6	14.4	97.1	NA	16.6	24.0	36.5	NA
Magnesium (Mg)	mg/kg	20	100	40		16300	21700	28.4	NA	68600	60100	13.2	NA	31400	26900	15.4	NA	22000	26500	18.6	NA
Manganese (Mn)	mg/kg	1.0	100	2.0		864	944	8.8	NA	237	338	35.1	NA	454	365	21.7	NA	273	384	33.8	NA
Molybdenum (Mo)	mg/kg	0.10	100	0.20		0.26	0.34	26.7	NA	0.24	0.34	34.5	NA	1.22	4.13	**108.8**	NA	5.18	3.11	49.9	NA
Nickel (Ni)	mg/kg	0.50	100	1.0		43.7	46.1	5.3	NA	10.3	14.6	34.5	NA	49.4	92.5	60.7	NA	107	78.7	30.5	NA
Phosphorus (P)	mg/kg	50	100	100		404	421	4.1	NA	369	386	4.5	NA	1400	13000	**161.1**	NA	15600	9180	51.8	NA
Potassium (K)	mg/kg	100	100	200		5680	5890	3.6	NA	1350	1670	21.2	NA	5520	1830	**100.4**	NA	1820	2760	41.0	NA
Selenium (Se)	mg/kg	0.20	100	0.40		<0.20	<0.20	NC	NA	<0.20	<0.20	NC	NC	0.31	2.00	**146.3**	NA	2.34	1.24	61.5	NA
Silver (Ag)	mg/kg	0.10	100	0.20		0.14	0.14	0.0	NA	<0.10	<0.10	NC	NC	2.13	45.7	**182.2**	NA	56.4	32.4	54.1	NA
Sodium (Na)	mg/kg	50	100	100		740	829	11.3	NA	330	361	9.0	NA	997	1350	30.1	NA	2230	1650	29.9	NA
Strontium (Sr)	mg/kg	0.50	100	1.0		71.8	160	76.1	NA	52.6	51.2	2.7	NA	117	186	45.5	NA	233	177	27.3	NA
Sulfur (S)	mg/kg	1,000	100	2,000		<1000	<1000	NC	NC	<1000	<1000	NC	NC	1400	9100	**146.7**	NA	12400	7500	49.2	NA
Thallium (Tl)	mg/kg	0.050	100	0.10		0.334	0.381	13.1	NA	0.090	0.126	33.3	NA	0.412	0.49	17.3	NA	0.49	0.43	13.0	NA
Tin (Sn)	mg/kg	2.0	100	4.0		<2.0	<2.0	NC	NC	<2.0	<2.0	NC	NC	7.1	116	**176.9**	NA	125	71.3	54.7	NA
Titanium (Ti)	mg/kg	1.0	100	2.0		155	250	46.9	NA	355	343	3.4	NA	253	198	24.4	NA	191	231	19.0	NA
Tungsten (W)	mg/kg	0.50	100	1.0		<0.50	<0.50	NC	NA	<0.50	<0.50	NC	NC	<0.50	9.5	NC	NA	10.8	5.4	66.7	NA
Uranium (U)	mg/kg	0.050	100	0.10		1.14	1.56	31.1	NA	0.580	0.654	12.0	NA	2.27	5.60	84.6	NA	12.5	9.33	29.0	NA
Vanadium (V)	mg/kg	0.20	100	0.40		98.8	113	13.4	NA	21.5	27.0	22.7	NA	102	44.6	78.3	NA	46.8	63.5	30.3	NA
Zinc (Zn)	mg/kg	2.0	100	4.0		102	105	2.9	NA	17.0	25.1	38.5	NA	187	1710	**160.6**	NA	1710	1110	42.6	NA
Zirconium (Zr)	mg/kg	1.0	100	2.0		10.4	10.7	2.8	NA	8.5	9.2	7.9	NA	10.8	<2.0	NC	NA	<2.0	<4.0	NC	NA

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.
NC - Not Calculated (Result is below 5x the detection limit).
NA - Not Applicable (Result is more than 5x the detection limit).
RPD - Relative Percent Difference.
mg/kg - milligram per kilogram.
mg/L - milligram per litre.
% - Percent.
< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 17: Quality Assurance/Quality Control - Groundwater

		Sample Location	MW22-04	
		Sample Date	2022-Nov-09	
		Sample ID	MW22-04	MW22-10 (dup of MW22-04)
Parameter	Units	Detection Limit		
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	mg/L	0.00010	<0.000020	<0.000020
Acenaphthylene	mg/L	0.00010	<0.000020	<0.000020
Acridine	mg/L	0.000040	<0.000020	<0.000020
Anthracene	mg/L	0.000010	<0.000010	0.000010
Benzo(a)anthracene	mg/L	0.0000085	<0.000010	0.000011
Benzo(a)pyrene	mg/L	0.0000075	0.0000214	0.0000185
Benzo(b&j)fluoranthene	mg/L	0.0000085	0.000021	0.000017
Benzo(g,h,i)perylene	mg/L	0.0000085	0.000020	<0.000020
Benzo(k)fluoranthene	mg/L	0.0000085	<0.000010	<0.000010
Chrysene	mg/L	0.0000085	<0.000020	<0.000020
Dibenz(a,h)anthracene	mg/L	0.0000075	<0.0000050	<0.0000050
Fluoranthene	mg/L	0.000010	0.000025	0.000025
Fluorene	mg/L	0.000050	<0.000020	<0.000020
Indeno(1,2,3-c,d)pyrene	mg/L	0.0000085	0.000016	0.000012
Methylnaphthalene, 1-	mg/L	0.00010	0.000052	0.000050
Methylnaphthalene, 2-	mg/L	0.00010	0.000090	0.000086
Naphthalene	mg/L	0.00010	0.000088	0.000085
Phenanthrene	mg/L	0.000050	<0.000050	<0.000050
Pyrene	mg/L	0.000020	0.000052	0.000048
Quinoline	mg/L	0.00020	<0.000020	<0.000020
Petroleum Hydrocarbons				
Benzene	mg/L	0.00040	<0.00050	<0.00050
Toluene	mg/L	0.00040	<0.00050	<0.00050
Ethylbenzene	mg/L	0.00040	<0.00050	<0.00050
Xylenes, Total	mg/L	0.00089	<0.00064	<0.00064
PHC F1 (C6-C10) minus BTEX	mg/L	0.10	<0.10	<0.10
PHC F2 (>C10-C16)	mg/L	0.10	0.16	0.13
PHC F3 (C16-C34 Hydrocarbons)	mg/L	0.25	1.52	1.03
PHC F4 (C34-C50 Hydrocarbons)	mg/L	0.25	0.46	0.28
Dissolved Metals				
Aluminum (Al)-Dissolved	mg/L	0.0010	0.334	0.0771
Antimony (Sb)-Dissolved	mg/L	0.00010	0.00076	0.00077
Arsenic (As)-Dissolved	mg/L	0.00010	0.00399	0.00393
Barium (Ba)-Dissolved	mg/L	0.00010	0.0318	0.0282
Beryllium (Be)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Bismuth (Bi)-Dissolved	mg/L	0.000050	<0.000050	<0.000050
Boron (B)-Dissolved	mg/L	0.010	0.286	0.299
Cadmium (Cd)-Dissolved	mg/L	0.0000050	0.000130	0.0000318
Calcium (Ca)-Dissolved	mg/L	0.50	584	593
Cesium (Cs)-Dissolved	mg/L	0.000010	0.000026	<0.000010
Chromium (Cr)-Dissolved	mg/L	0.00010	0.00852	0.00230
Cobalt (Co)-Dissolved	mg/L	0.00010	0.00780	0.00763
Copper (Cu)-Dissolved	mg/L	0.00020	0.00678	0.00363
Iron (Fe)-Dissolved	mg/L	0.010	2.25	2.00
Lead (Pb)-Dissolved	mg/L	0.000050	0.00914	0.00232
Lithium (Li)-Dissolved	mg/L	0.0010	0.324	0.308
Magnesium (Mg)-Dissolved	mg/L	0.050	572	576
Manganese (Mn)-Dissolved	mg/L	0.00010	4.12	4.06
Molybdenum (Mo)-Dissolved	mg/L	0.000050	0.00508	0.00562
Nickel (Ni)-Dissolved	mg/L	0.00050	0.0404	0.0392
Phosphorus (P)-Dissolved	mg/L	0.030	0.613	0.531
Potassium (K)-Dissolved	mg/L	0.050	6.67	6.61
Rubidium (Rb)-Dissolved	mg/L	0.00020	0.00246	0.00206
Selenium (Se)-Dissolved	mg/L	0.000050	0.000496	0.000594
Silicon (Si)-Dissolved	mg/L	0.050	10.8	10.4
Silver (Ag)-Dissolved	mg/L	0.000010	0.000073	0.000053
Sodium (Na)-Dissolved	mg/L	0.050	340	343
Strontium (Sr)-Dissolved	mg/L	0.00010	2.73	2.62
Sulfur (S)-Dissolved	mg/L	0.50	872	922
Tellurium (Te)-Dissolved	mg/L	0.00020	<0.00020	<0.00020
Thallium (Tl)-Dissolved	mg/L	0.000010	<0.000010	<0.000010
Thorium (Th)-Dissolved	mg/L	0.00010	0.00017	<0.00010
Tin (Sn)-Dissolved	mg/L	0.00010	0.00055	0.00032
Titanium (Ti)-Dissolved	mg/L	0.00030	0.00989	0.00275
Tungsten (W)-Dissolved	mg/L	0.00010	0.00093	0.00107
Uranium (U)-Dissolved	mg/L	0.000010	0.0406	0.0401
Vanadium (V)-Dissolved	mg/L	0.00050	0.00310	0.00237
Zinc (Zn)-Dissolved	mg/L	0.0010	0.0233	0.0101
Zirconium (Zr)-Dissolved	mg/L	0.00020	0.00501	0.00443
Volatile Organic Carbons				
Acetone	mg/L	0.0500	<0.050	<0.050
Bromobenzene	mg/L	0.0010	<0.0010	<0.0010
Bromochloromethane	mg/L	0.0010	<0.0010	<0.0010
Bromodichloromethane	mg/L	0.0005	<0.00050	<0.00050
Bromoform	mg/L	0.0010	<0.0010	<0.0010
Bromomethane	mg/L	0.0010	<0.0010	<0.0010
n-Butylbenzene	mg/L	0.0010	<0.0010	<0.0010
sec-Butylbenzene	mg/L	0.0010	<0.0010	<0.0010
tert-Butylbenzene	mg/L	0.0010	<0.0010	<0.0010
Carbon disulfide	mg/L	0.0050	<0.0050	<0.0050
Carbon Tetrachloride	mg/L	0.0005	<0.00050	<0.00050
Chlorobenzene	mg/L	0.0010	<0.0010	<0.0010
Dibromochloromethane	mg/L	0.0005	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.0005	<0.00050	<0.00050
Chloromethane	mg/L	0.0050	<0.0050	<0.0050
2-Chlorotoluene	mg/L	0.0200	<0.020	<0.020
4-Chlorotoluene	mg/L	0.0010	<0.0010	<0.0010
1,2-Dibromo-3-chloropropane	mg/L	0.0010	<0.0010	<0.0010
1,2-Dibromoethane	mg/L	0.0010	<0.0010	<0.0010
Dibromomethane	mg/L	0.0010	<0.0010	<0.0010
1,2-Dichlorobenzene	mg/L	0.0005	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.0010	<0.0010	<0.0010
1,4-Dichlorobenzene	mg/L	0.0010	<0.0010	<0.0010
Dichlorodifluoromethane	mg/L	0.0010	<0.0010	<0.0010
1,1-dichloroethane	mg/L	0.0005	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.0005	<0.00050	<0.00050
1,1-dichloroethene	mg/L	0.0005	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	0.0010	<0.0010	<0.0010
trans-1,2-Dichloroethene	mg/L	0.0010	<0.0010	<0.0010
Dichloromethane	mg/L	0.0050	<0.0050	<0.0050
1,2-Dichloropropane	mg/L	0.0010	<0.0010	<0.0010
1,3-Dichloropropane	mg/L	0.0010	<0.0010	<0.0010
2,2-Dichloropropane	mg/L	0.0010	<0.0010	<0.0010
1,1-Dichloropropene	mg/L	0.0010	<0.0010	<0.0010
cis-1,3-Dichloropropene	mg/L	0.0010	<0.0010	<0.0010
trans-1,3-Dichloropropene	mg/L	0.0010	<0.0010	<0.0010
Hexachlorobutadiene	mg/L	0.0010	<0.0010	<0.0010
Hexane	mg/L	0.0010	<0.0010	<0.0010
2-Hexanone (Methyl butyl ketone)	mg/L	0.0200	<0.020	<0.020
Isopropylbenzene	mg/L	0.0010	<0.0010	<0.0010
4-Isopropyltoluene	mg/L	0.0010	<0.0010	<0.0010
MEK	mg/L	0.0200	<0.020	<0.020
MIBK	mg/L	0.0200	<0.020	<0.020
MTBE	mg/L	0.0005	<0.00050	<0.00050
Styrene	mg/L	0.0010	<0.0010	<0.0010
1,1,1,2-Tetrachloroethane	mg/L	0.0005	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.0005	<0.00050	<0.00050
Tetrachloroethene	mg/L	0.0005	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.0010	<0.0010	<0.0010
1,2,4-Trichlorobenzene	mg/L	0.0010	<0.0010	<0.0010
1,1,1-Trichloroethane	mg/L	0.0005	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.0005	<0.00050	<0.00050
Trichloroethene	mg/L	0.0005	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	0.0010	<0.0010	<0.0010
1,2,4-Trimethylbenzene	mg/L	0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	mg/L	0.0010	<0.0010	<0.0010
Vinyl Chloride	mg/L	0.0005	<0.00050	<0.00050

Notes:

All groundwater results in mg/L, unless otherwise indicated.

mg/L : milligram per litre.

<: Denotes concentration less than indicated detection limit.

NEWPCC Biosolid Facilities
Phase II Environmental Site Assessment
Table 18: Quality Assurance/Quality Control - Groundwater Field and Trip Blanks

		Sample ID	Trip Blank	Field Blank
		Sample Date	2022-Nov-09	
Parameter	Units	Detection Limit		
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	mg/L	0.00002	<0.000020	<0.000020
Acenaphthylene	mg/L	0.00002	<0.000020	<0.000020
Acridine	mg/L	0.00002	<0.000020	<0.000020
Anthracene	mg/L	0.00001	<0.000010	<0.000010
Benzo(a)anthracene	mg/L	0.00001	<0.000010	<0.000010
Benzo(a)pyrene	mg/L	0.000005	<0.0000050	<0.0000050
Benzo(b&j)fluoranthene	mg/L	0.00001	<0.000010	<0.000010
Benzo(g,h,i)perylene	mg/L	0.00002	<0.000020	<0.000020
Benzo(k)fluoranthene	mg/L	0.00001	<0.000010	<0.000010
Chrysene	mg/L	0.00002	<0.000020	<0.000020
Dibenz(a,h)anthracene	mg/L	0.000005	<0.0000050	<0.0000050
Fluoranthene	mg/L	0.00002	<0.000020	<0.000020
Fluorene	mg/L	0.00002	<0.000020	<0.000020
Indeno(1,2,3-c,d)pyrene	mg/L	0.00001	<0.000010	<0.000010
Methylnaphthalene, 1-	mg/L	0.00002	<0.000020	<0.000020
Methylnaphthalene, 2-	mg/L	0.00002	<0.000020	<0.000020
Naphthalene	mg/L	0.00005	<0.000050	<0.000050
Phenanthrene	mg/L	0.00005	<0.000050	<0.000050
Pyrene	mg/L	0.00001	<0.000010	<0.000010
Quinoline	mg/L	0.00002	<0.000020	<0.000020
Petroleum Hydrocarbons				
Benzene	mg/L	0.00050	<0.00050	<0.00050
Toluene	mg/L	0.00050	<0.00050	<0.00050
Ethylbenzene	mg/L	0.00050	<0.00050	<0.00050
Xylenes, Total	mg/L	0.00064	<0.00064	<0.00064
PHC F1 (C6-C10) minus BTEX	mg/L	0.10	<0.10	<0.10
PHC F2 (>C10-C16)	mg/L	0.10	<0.10	<0.10
PHC F3 (C16-C34 Hydrocarbons)	mg/L	0.25	<0.25	<0.25
PHC F4 (C34-C50 Hydrocarbons)	mg/L	0.25	<0.25	<0.25
Dissolved Metals				
Aluminum (Al)-Dissolved	mg/L	0.0010	<0.0010	<0.0010
Antimony (Sb)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Arsenic (As)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Barium (Ba)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Beryllium (Be)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Bismuth (Bi)-Dissolved	mg/L	0.000050	<0.000050	<0.000050
Boron (B)-Dissolved	mg/L	0.010	<0.010	<0.010
Cadmium (Cd)-Dissolved	mg/L	0.0000050	<0.0000050	<0.0000050
Calcium (Ca)-Dissolved	mg/L	0.50	<0.050	<0.050
Cesium (Cs)-Dissolved	mg/L	0.000010	<0.000010	<0.000010
Chromium (Cr)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Cobalt (Co)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Copper (Cu)-Dissolved	mg/L	0.00020	<0.00020	<0.00020
Iron (Fe)-Dissolved	mg/L	0.010	<0.010	<0.010
Lead (Pb)-Dissolved	mg/L	0.000050	<0.000050	<0.000050
Lithium (Li)-Dissolved	mg/L	0.0010	<0.0010	<0.0010
Magnesium (Mg)-Dissolved	mg/L	0.050	<0.0050	<0.0050
Manganese (Mn)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Molybdenum (Mo)-Dissolved	mg/L	0.000050	<0.000050	<0.000050
Nickel (Ni)-Dissolved	mg/L	0.00050	<0.00050	<0.00050
Phosphorus (P)-Dissolved	mg/L	0.030	<0.030	<0.030
Potassium (K)-Dissolved	mg/L	0.050	<0.050	<0.050
Rubidium (Rb)-Dissolved	mg/L	0.00020	<0.00020	<0.00020
Selenium (Se)-Dissolved	mg/L	0.000050	<0.000050	<0.000050
Silicon (Si)-Dissolved	mg/L	0.050	<0.050	<0.050
Silver (Ag)-Dissolved	mg/L	0.000010	<0.000010	<0.000010
Sodium (Na)-Dissolved	mg/L	0.050	<0.050	<0.050
Strontium (Sr)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Sulfur (S)-Dissolved	mg/L	0.50	<0.50	<0.50
Tellurium (Te)-Dissolved	mg/L	0.00020	<0.00020	<0.00020
Thallium (Tl)-Dissolved	mg/L	0.000010	<0.000010	<0.000010
Thorium (Th)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Tin (Sn)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Titanium (Ti)-Dissolved	mg/L	0.00030	<0.00030	<0.00030
Tungsten (W)-Dissolved	mg/L	0.00010	<0.00010	<0.00010
Uranium (U)-Dissolved	mg/L	0.000010	<0.000010	<0.000010
Vanadium (V)-Dissolved	mg/L	0.00050	<0.00050	<0.00050
Zinc (Zn)-Dissolved	mg/L	0.0010	<0.0010	<0.0010
Zirconium (Zr)-Dissolved	mg/L	0.00020	<0.00020	<0.00020
Volatile Organic Carbons				
Acetone	mg/L	0.050	<0.050	<0.050
Bromobenzene	mg/L	0.0010	<0.0010	<0.0010
Bromochloromethane	mg/L	0.0010	<0.0010	<0.0010
Bromodichloromethane	mg/L	0.00050	<0.00050	<0.00050
Bromoform	mg/L	0.0010	<0.0010	<0.0010
Bromomethane	mg/L	0.0010	<0.0010	<0.0010
Carbon disulfide	mg/L	0.0050	<0.0050	<0.0050
Carbon Tetrachloride	mg/L	0.00050	<0.00050	<0.00050
Chlorobenzene	mg/L	0.0010	<0.0010	<0.0010
Dibromochloromethane	mg/L	0.00050	<0.00050	<0.00050
Chloroethane	mg/L	0.0010	<0.0010	<0.0010
Chloroform	mg/L	0.00050	<0.00050	<0.00050
Chloromethane	mg/L	0.0050	<0.0050	<0.0050
2-Chlorotoluene	mg/L	0.020	<0.020	<0.020
4-Chlorotoluene	mg/L	0.0010	<0.0010	<0.0010
1,2-Dibromo-3-chloropropane	mg/L	0.0010	<0.0010	<0.0010
1,2-Dibromoethane	mg/L	0.0010	<0.0010	<0.0010
Dibromomethane	mg/L	0.0010	<0.0010	<0.0010
1,2-Dichlorobenzene	mg/L	0.00050	<0.00050	<0.00050
1,3-Dichlorobenzene	mg/L	0.0010	<0.0010	<0.0010
1,4-Dichlorobenzene	mg/L	0.0010	<0.0010	<0.0010
Dichlorodifluoromethane	mg/L	0.0010	<0.0010	<0.0010
1,1-dichloroethane	mg/L	0.00050	<0.00050	<0.00050
1,2-Dichloroethane	mg/L	0.00050	<0.00050	<0.00050
1,1-dichloroethene	mg/L	0.00050	<0.00050	<0.00050
cis-1,2-Dichloroethene	mg/L	0.0010	<0.0010	<0.0010
trans-1,2-Dichloroethene	mg/L	0.0010	<0.0010	<0.0010
Dichloromethane	mg/L	0.0050	<0.0050	<0.0050
1,2-Dichloropropane	mg/L	0.0010	<0.0010	<0.0010
1,3-Dichloropropane	mg/L	0.0010	<0.0010	<0.0010
2,2-Dichloropropane	mg/L	0.0010	<0.0010	<0.0010
1,1-Dichloropropene	mg/L	0.0010	<0.0010	<0.0010
cis-1,3-Dichloropropene	mg/L	0.0010	<0.0010	<0.0010
trans-1,3-Dichloropropene	mg/L	0.0010	<0.0010	<0.0010
Hexachlorobutadiene	mg/L	0.0010	<0.0010	<0.0010
Hexane	mg/L	0.0010	<0.0010	<0.0010
2-Hexanone (Methyl butyl ketone)	mg/L	0.020	<0.020	<0.020
Isopropylbenzene	mg/L	0.0010	<0.0010	<0.0010
4-Isopropyltoluene	mg/L	0.0010	<0.0010	<0.0010
MEK	mg/L	0.020	<0.020	<0.020
MIBK	mg/L	0.020	<0.020	<0.020
MTBE	mg/L	0.00050	<0.00050	<0.00050
Styrene	mg/L	0.0010	<0.0010	<0.0010
1,1,1,2-Tetrachloroethane	mg/L	0.00050	<0.00050	<0.00050
1,1,2,2-Tetrachloroethane	mg/L	0.00050	<0.00050	<0.00050
Tetrachloroethene	mg/L	0.00050	<0.00050	<0.00050
1,2,3-Trichlorobenzene	mg/L	0.0010	<0.0010	<0.0010
1,2,4-Trichlorobenzene	mg/L	0.0010	<0.0010	<0.0010
1,1,1-Trichloroethane	mg/L	0.00050	<0.00050	<0.00050
1,1,2-Trichloroethane	mg/L	0.00050	<0.00050	<0.00050
Trichloroethene	mg/L	0.00050	<0.00050	<0.00050
Trichlorofluoromethane	mg/L	0.0010	<0.0010	<0.0010
1,2,3-Trichloropropane	mg/L	0.0010	<0.0010	<0.0010
1,2,4-Trimethylbenzene	mg/L	0.0010	<0.0010	<0.0010
1,3,5-Trimethylbenzene	mg/L	0.0010	<0.0010	<0.0010
Vinyl Chloride	mg/L	0.00050	<0.00050	<0.00050

Notes:

All groundwater results in mg/L, unless otherwise indicated.

mg/L : milligram per litre.

<: Denotes concentration less than indicated detection limit.

Appendix A Site Photographs

SITE PHOTOGRAPHS

Site Name:
NEWPCC Upgrade – Biosolids Facility

Site Location:
Winnipeg, Manitoba

Project No.
60689238

Photo No. 1	**Date:** Oct 31, 2022

Description:

Soil core from BH22-03 surface to 1.5 m.



Photo No. 2	**Date:** Oct 31, 2022

Description:

Soil core from BH22-03 surface to 1.5 m. Soil consists of silt and Clay.



SITE PHOTOGRAPHS

Site Name:
NEWPCC Upgrade – Biosolids Facility

Site Location:
Winnipeg, Manitoba

Project No.
60689238

Photo No. 3	**Date:** Nov 2, 2022

Description:

Soil sample on solid stem auger from BH22-14.



Photo No. 4	**Date:** Nov 2, 2022

Description:

Soil cores from surface (left core) to 4.5 m (right core). Unknown borehole location.



SITE PHOTOGRAPHS

Site Name:
NEWPCC Upgrade – Biosolids Facility

Site Location:
Winnipeg, Manitoba

Project No.
60689238

Photo No. 5	**Date:** Nov 2, 2022

Description:

Proposed rail crossing locations facing west.



Photo No. 6	**Date:** Nov 16, 2022

Description:

Facing north towards BH22-12.



Appendix B Borehole Logs

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-01**
LOCATION: 5535436, 635051.4		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.07

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, silt and clay, fine grained, brown, low plasticity, moist, dense					231
		Clay, some silt, fine grained, dark brown, mosit, stiff, medium plasticity		1		Sample BH22-01-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
1		Clay, some silt, trace sand, fine grained, light brown, wet, soft medium plasticity		2			230
2							229
		Clay, some silt, fine grained, dark brown, mosit, firm, medium plasticy, trace of gravel		3		Sample BH22-01-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3				4			228
				5			
4		Clay, some silt, some sand, brown, moist, stiff, medium plasticity					227
				6		Sample BH22-01-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY:	COMPLETION DATE: 10/31/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-02**
LOCATION: 5535391, 635031.8		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.37

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity		1		Sample BH22-02-SS-01 was submitted for analysis of metals	
		CLAY and SILT, fine grained, black, moist, firm, medium plasticity					231
1				2		Sample BH22-02-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
		CLAY and SILT, fine grained, dark brown, moist, stiff, medium plasticity					
2		SILT, some clay, fine grained, light brown, wet, soft, low plasticity		3			229
				4		Sample BH22-02-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN SILT					
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					228
4							
							227
5							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 3.00 m
REVIEWED BY:	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-03**
LOCATION: 5535397, 635074.2		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.69

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, silt, some clay, fine grained, black, moist, compact, low plasticity		1		Sample BH22-03-SS-01 was submitted for analysis of metals	
		SILT, and clay, fine grained, brown, moist, dense, low plasticity					231
1		CLAY, and silt, find grained, dark brown, moist, stiff, medium plasticity, some oraganic (wood and root), gravel inclusions		2		Sample BH22-03-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, fine grianed, moist, brown, stiff, medium plasticity		3			230
2							
		CLAY, some silt, trace sand, light brown, wet, soft, medium plasticity		4		Sample BH22-03-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
3				5			
		CLAY, some silt, fine grained, dark brown, moist, stiff, medium platicity		6		Sample BH22-03-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4		CLAY and silt, fine grained, light brown, moist, stiff, medium plasticty					
		CLAY, some silt, fine grained, dark brown, moist, stiff, medium plasticity		7			
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					227
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY:	COMPLETION DATE: 10/31/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-04**
LOCATION: 5535394, 635125.6		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.26

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, SILT, some clay, fine grained, light brown, moist, loose, low plasticity	☒	1 ⊗		Sample BH22-04-SS-01 was submitted for analysis of metals	231
		CLAY, trace silt, fine grained, moist, black, stiff, medium plasticity, organic root matter					
1							230
		CLAY, some silt, fine grained, moist, dark brown, stiff, medium plasticity	☒	2 ⊗		Sample BH22-04-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
2							229
		SILT and CLAY, some sand, fine grained, moist, light brown, soft, medium plasticty, stratified gray coloration	☒	3 ⊗			
			☒	4 ⊗		Sample BH22-04-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN CLAY and SILT					228
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					
4							227
5							

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 3.00 m
REVIEWED BY:	COMPLETION DATE: 10/31/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-05**
LOCATION: 5535373, 635152.3		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.31

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, SILT and clay, trace gravel, fine grained, moist, dark brown, dense, low plasticity					
		SILT and CLAY, some sand, fine grained, light brown, moist, compact, medium plasticity		1			231
1		CLAY, some silt, fine grained, moist, black, stiff, medium plasticity					230
		CLAY, some silt, fine, moist, dark brown, firm, medium plasticity		2		Sample BH22-05-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
2		SILT and CLAY, some sand, fine grained, wet, light brown, loose, limestone inclusions, tratified brown coloration, medium plasticity		3			229
3		CLAY, some silt, fine grained, moist, brown, firm, medium plasticity		4		Sample BH22-05-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4		SILT and clay, some sand, fine grained, light borwn, moist, soft, medium plasticity		5			
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity, lenses of grey sand		6		Sample BH22-05-SS-06 and duplicate BH22-05-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	227
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY:	COMPLETION DATE: 10/31/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-06**
LOCATION: 5535356, 635010.9		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.52

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					231
1				1			
		CLAY, some silt, fine grained, brown, moist, firm, medium plasticity					230
2				2		Sample BH22-06-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, light brown, wet, soft, medium plasticity					229
3				3		Sample BH22-06-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, fine grained, brown, moist, stiff, medium plasticity					228
4				4			
				5		Sample BH22-06-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	227
5		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					

Notes:
1. Borehole backfilled with bentonite upon completion.
2. No groundwater seepage or sloughing observed upon completion.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-07**
LOCATION: 5535356, 0635058.9		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.74

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		SILT, some clay, fine, light brown, moist, compact					231
1				1		Sample BH22-07-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, black, fine grained, moist, firm, low plasticity					230
2		CLAY, some silt, fine, brown, mosit, firm, medium plasticity		2			
							229
		SILT, some clay, light brown, fine grained, wet, soft, low plasticity		3		Sample BH22-07-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3							
				4			228
4							
				5		Sample BH22-07-SS-05 and duplicate BH22-07-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					227
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-08**
LOCATION: 5535333, 635113.8		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.8

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
		CLAY and SILT, some sand, fine grained, light brown, moist, firm, medium plasticity	SS	1		Sample BH22-08-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	231
1		SILT, some clay, fine grained, black, moist, dense, slight hydrocarbon smell	SS	2		Sample BH22-08-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
2		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity	SS	3			230
							229
3		SILT and SAND, some clay, fine grained, light brown, wet, soft, lense of clay between 3.8 - 3.9 m	SS	4		Sample BH22-08-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
4			SS	5			228
			SS	6			
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					227
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-09**
LOCATION: 5535335, 635232.6		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.37

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, CLAY and silt, fine grained, brown, moist, firm, medium plasticity		1		Sample BH22-09-SS-01 was submitted for analysis of metals	231
		CLAY some sit, fine grianed, dark brown, moist, stiff, medium plasticity		2		Sample BH22-09-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
1							230
		SILT, some clay, trace sand, fine grained, light brown, moist, low plasticity		3			
2							229
				4		Sample BH22-09-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, fine grained, dark, brown, moist, stiff, medium plasticity, lenses of sand					
3				5			228
		CLAY, some silt, fine grained, dark brown, moist, firm, medium plasticity		6		Sample BH22-09-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
4		CLAY, some silt, fine grained, brown, moist, stiff, stratified brown coloration					227
				7			
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-10**
LOCATION: 5535313, 635178.6		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.54

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, CLAY and silt, fine grained, light brown moist, firm, medium plasticity, trace limestone and gravel					
		CLAY - organic, fine grained, black, moist, medium plasticity, some wood		1			231
1				2		Sample BH22-10-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, fine grained, dark brown, moist, firm, medium plasticity, trace gravel					230
2				3			
		SILT and clay, fine grained, light brown, wet, soft					229
3				4		Sample BH22-10-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, fine grained, brown, moist, firm, medium plasticity					228
4				5			
		SILT and clay, fine grained, light brown, moist, firm, low plasticity		6		Sample BH22-10-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	227
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-11**
LOCATION: 5535302, 635151.8		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.65

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, firm, low plasticity					231
				1	⊗	Sample BH22-11-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
1		CLAY and SILT, fine grained, black (organic), moist, stiff, medium plasticity					
				2	⊗		230
		SILT and SAND, some clay, trace gravel, fine grained, light brown, wet, loose					
2							
				3	⊗	Sample BH22-11-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
3		CLAY, some silt, fine grained, dark brown, moist, stiff, medium plasticity, lense of silt					
				4	⊗		228
4				5	⊗	Sample BH22-11-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
				6	⊗		227
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-12**
LOCATION: 5535288, 635210.4		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Solid Stem Auger	ELEVATION (m): 231.61

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, brown, fine grained, mosit, firm, medium plasticity					231
1				1		Sample BH22-12-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH, salinity and metals	
				2			230
2		SILT and CLAY, light brown, some sand, fine grained, wet, soft, low plasticity,					
				3		Sample BH22-12-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
3		SILT and CLAY, light brown, fine grained, moist, dense, low plasticity		4			
		CLAY, some silt, brown, fine grained, moist, firm, medium plasticity, silt inclusions					228
4				5		Sample BH22-12-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, brown, fine grained, moist, firm, medium plasticity		6			227
5				7			
							226
6				8			
		CLAY, trace silt, dark brown, fine grained, soft, high plasticity		9			225
7				10			
							224
8				11			
							223
9				12			
							222
10		END OF BOREHOLE @ 10.0 M BELOW GROUND SURFACE IN CLAY					
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					221
11							
							220
12							

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 10.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/2/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-13**
LOCATION: 5535264, 635173.9		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.54

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil and gravel fill, some silt, some clay, dark brown, moist, stiff	☒	1 ⊗		Sample BH22-13-SS-01 was submitted for analysis of metals	
		CLAY, some silt, dark brown, firm, moist, medium plasticity					231
1			☒	2 ⊗		Sample BH22-13-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, dark brown, firm, moist, medium plasticity, organic inclusions					230
2		CLAY, some silt, fine grained, greenish gray, moist, firm, medium plasticity, brown oxidation inclusions, lense of silt	☒	3 ⊗			
							229
		- silt lense between 2.8 m - 3.0 m	☒	4 ⊗		Sample BH22-13-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN CLAY					
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					228
4							
							227
5							

AECOM

LOGGED BY: Manny Papadimitropoulos	COMPLETION DEPTH: 3.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-14**
LOCATION: 5535347, 635267.2		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Solid Stem Auger	ELEVATION (m): 231.77

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0	CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					231
1	SILT, fine grained, brown, mosit, firm, medium plasticity		1		Sample BH22-14-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH, salinity and metals	
	CLAY and SILT, fine grained, black, moist, medium plasticity		2			230
2	SILT and SAND, some clay, fine grained, light brown, moist, soft, low plasticity		3		Sample BH22-12-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3			4			229
	CLAY, some silt, fine grained, dark brown, moist, stiff, medium plasticity		5		Sample BH22-12-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4						
	CLAY, some silt, fine grained, dark brown, moist, firm, medium plasticity		6			227
5			7			
6						226
7			8			225
8						224
			9			
9						223
	END OF BOREHOLE @ 9.6 M BELOW GROUND SURFACE IN CLAY					
10						222
11						221
12						220

Notes:
1. Seepage observed during drilling at 1.8 m bgs
2. Two 25" standpipe piezometer with 1 ft Cassagrande tip installed at 2.74 m bgs and 7.32 m bgs, stickup 0.9 m
3. Backfill with bentonite to 7.62 m bgs, then with silica sand to 6.71 m bgs, then by bentonite to 3.05 m bgs, then by silica sand to 2.13 m bgs, then by bentonite to surface.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 10.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/3/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-15**
LOCATION: 5535225, 635227		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.8

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity		1 ⊗		Sample BH22-15-SS-01 was submitted for analysis of metals	231
1							
2		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity, loose, slight hydrocarbon ordor		2 ⊗		Sample BH22-15-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
3		SILT and CLAY, fine grained, light brown, moist, soft, medium plasticity		3 ⊗		Sample BH22-15-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
4		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity		4 ⊗		Sample BH22-15-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
5		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY and SILT Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.		5 ⊗			227

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-16**
LOCATION: 5535245, 635267		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.48

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity					232
1			SPLIT SPOON	1 ⊗		Sample BH22-16-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	231
2			SPLIT SPOON	2 ⊗			230
		SILT and CLAY, trace gravel, fine grained, dark brown, moist, compact, low plasticity					
3			SPLIT SPOON	3 ⊗		Sample BH22-16-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, dark brown, moist, stiff, medium plasticity					
		SILT, some clay, trace sand, fine grained, light brown, wet, soft					229
4			SPLIT SPOON	4 ⊗			
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
			SPLIT SPOON	5 ⊗		Sample BH22-16-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
5		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY and SILT					

Notes:
1. Borehole backfilled with bentonite upon completion.
2. No groundwater seepage or sloughing observed upon completion.

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-17**
LOCATION: 5535240, 635274.1		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.63

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, some roots, fine grained, brown, moist, stiff, medium plasticity		1		Sample BH22-17-SS-01 was submitted for analysis of metals	232
1				2		Sample BH22-17-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					231
2				3		Sample BH22-17-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
							230
3				4			
		SILT and CLAY, trace sand, light brown, wet, soft, low plasticity					
				5		Sample BH22-17-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
4							
				6			
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					228
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-18**
LOCATION: 5535217, 0635232.7		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.95

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
1			SPLIT SPOON	1	⊗	Sample BH22-18-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	231
2		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity, slight hydrocarbon ordor	SPLIT SPOON	2	⊗	Sample BH22-18-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
3		SILT and CLAY, fine grained, light brown, moist, soft, low plasticity	SPLIT SPOON	3	⊗	Sample BH22-18-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
4			SPLIT SPOON	4	⊗		228
		CLAY and SILT, fine grained, brown, moist, firm	SPLIT SPOON	5	⊗		
5		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY and SILT					227

Notes:
1. Borehole backfilled with bentonite upon completion.
2. No groundwater seepage or sloughing observed upon completion.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/5/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-19**
LOCATION: 5535315, 0635303		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Solid Stem Auger	ELEVATION (m): 231.85

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity					
1				1		Sample BH22-19-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	231
		CLAY, some silt, fine grained, black, moist, firm, medium plasticity		2			
2		CLAY, some silt, fine grained, dark brown, moist, stiff, medium plasticity					230
		SILT and CLAY, fine grained, light brown, moist, soft, medium plasticity		3			
				4		Sample BH22-19-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
3		CLAY, some silt, fine grained, brown, moist, firm, medium plasticity					
4				5			228
				6		Sample BH22-19-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
5				7			227
6				8			226
7				9			225
8				10			224
9							223
				11			
10		END OF BOREHOLE @ 10.0 M BELOW GROUND SURFACE IN CLAY					222
11		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					221
12							220

AECOM

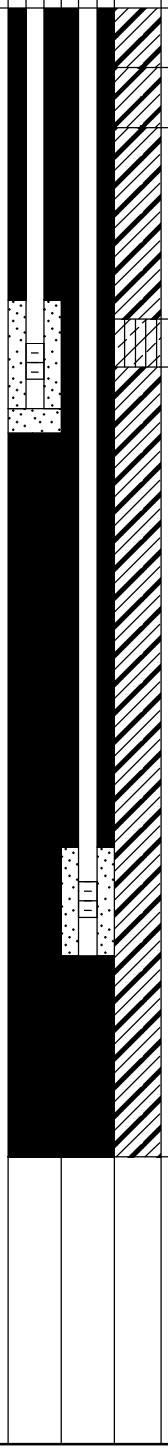
LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 10.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/3/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-20**
LOCATION: 553525, 06035245		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Solid Stem Auger	ELEVATION (m): 231.73

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND



DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0	CLAY, some silt, fine grained, dark brown, moist, firm, medium plasticity					
	CLAY, some silt, fine grained, black, moist, firm, medium plasticity					
1			1		Sample BH22-20-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	231
	CLAY, some silt, fine grained, brown, moist, stiff, medium plasticity		2			
2			3			230
	SILT and CLAY, fine grained, light brown, moist, soft, low plasticity		4		Sample BH22-20-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
3	CLAY, some silt, fine grained, brown, moist, stiff, medium plasticity		5		Sample BH22-20-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4			6			
5			7			227
6			8			226
7			9			225
8			10			224
9						223
10	END OF BOREHOLE @ 9.6 M BELOW GROUND SURFACE IN CLAY		11			222
11	Notes: 1. Seepage observed during drilling at 1.8 m bgs 2. Two 25" standpipe piezometer with 1 ft Cassagrande tip installed at 3.05 m bgs and 7.62 m bgs, stickup 0.9 m 3. Backfill with bentonite to 7.92 m bgs, then with silica sand to 7.01 m bgs, then by bentonite to 3.35 m bgs, then by silica sand to 2.44 m bgs, then by bentonite to surface.					221
12						220

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 10.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-21**
LOCATION: 5535221, 0635338		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.8

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity					231
1				1 ⊗			
		CLAY and SILT, fine grained, brown moist, frim, medium plasticity					230
2				2 ⊗		Sample BH22-21-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		SILT and CLAY, some sand, fine, moist, loose					229
3				3 ⊗		Sample BH22-21-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN SILT and CLAY					
4							228
5							227

Notes:
1. Borehole backfilled with bentonite upon completion.
2. No groundwater seepage or sloughing observed upon completion.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 3.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/5/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-22**
LOCATION: 5535198, 0635366		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.16

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity		1		Sample BH22-22-SS-01 was submitted for analysis of metals	231
1				2		Sample BH22-22-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
2				3			229
		SILT and CLAY, some sand, fine grained, light brown, moist, loose					
3				4		Sample BH22-22-SS-04 and duplicate BH22-22-SS-08 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
				5			
		CLAY and SILT, brown, fine grained, moist, firm, medium plasticity					
4							227
				6		Sample BH22-22-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/5/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-23**
LOCATION: 5535125, 0635402.1		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 230.83

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					230
1				1		Sample BH22-23-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity					229
2		SILT and CLAY, fine grained, light brown, moist, soft, low plasticity		2			
				3		Sample BH22-23-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
3		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
				4			227
4				5		Sample BH22-23-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					226
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-24**
LOCATION: 5535158, 0635417		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.01

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity		1 ⊗		Sample BH22-24-SS-01 was submitted for analysis of metals	
1							230
		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity		2 ⊗		Sample BH22-24-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
2		SILT and CLAY, fine grained, light brown, wet, soft, low plasticity					229
				3 ⊗		Sample BH22-24-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN SILT and CLAY					228
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					
4							227
5							

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 3.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-25**
LOCATION: 5535298, 635344.9		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.2

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ☰ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, some gravel, fine grained, brown, moist, stiff, medium plasticity	☒	1 ⊗		Sample BH22-25-SS-01 was submitted for analysis of metals	232
1							231
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity	☒	2 ⊗		Sample BH22-25-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
2							230
		SILT, some clay, fine grained, light brown, moist, compact					
		SILT and CLAY, fine grained, black, moist, compact	☒	3 ⊗		Sample BH22-25-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
3		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN CLAY and SILT					229
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					
4							228
5							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 3.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/5/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **MW22-01**
LOCATION: 5535298, 635096.4		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.83

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, CLAY and silt, fine grained, brown, moist, firm, medium plasticity					
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity, faint hydrocarbon odour		1			232
1							
		CLAY and SILT (organic), fine grained, black, moist, firm, medium plasticity, slight hydrocarbon odour		2		Sample MW22-01-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
							231
2				3			
				4		Sample MW22-01-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
3		SILT and SAND, some clay, fine grained, light brown, wet, soft					
				5			229
4							
		END OF BOREHOLE @ 4.5 M BELOW GROUND SURFACE IN CLAY		6		Sample MW22-01-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		Notes: 1. Monitoring well installed upon completion. 2. No groundwater seepage or sloughing observed upon completion.					228
5							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **MW22-02**
LOCATION: 5535367, 635200.9		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.42

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		SILT and CLAY, trace sand, fine grained, brown mosit, firm, low plasticity					232
1		CLAY and SILT, fine grained, browm moist, stiff, medium plasticity		1		Sample MW22-02-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity					231
2		SILT and CLAY, trace sand, light brown, wet, soft, low plasticity		2			
				3		Sample MW22-02-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
3		CLAY and SILT, fine grained, dark brown, moist, stiff, medium plasticity, lenses of gravel and limestone, inclusions of white sand		4			
4				5		Sample MW22-02-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
				6			228
5		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					

Notes:
1. Monitoring well installed upon completion.
2. No groundwater seepage or sloughing observed upon completion.

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 10/31/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **MW22-03**
LOCATION: 5535324, 635331.8		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.78

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity, some concrete					232
1				1 ⊗			
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					231
2				2 ⊗		Sample MW22-03-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		SILT and CLAY, fine grained, light brown, wet, soft, medium plasticity					
				3 ⊗		Sample MW22-03-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
3							
				4 ⊗			229
4		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
				5 ⊗		Sample MW22-03-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY and SILT					228
5		Notes: 1. Monitoring well installed upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/5/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **MW22-04**
LOCATION: 5535236, 0635301.8		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 233.53

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity					233
1				1	⊗	Sample MW22-04-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					232
2		CLAY and SILT, fine grained, brown, moist, firm, medium plasticty		2	⊗		
		SILT, some clay, fine grained, black, moist, loose					231
3				3	⊗	Sample MW22-04-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
		SILT and CLAY, some sand, fine grained, light brown, wet, low plasticity					230
4				4	⊗	Sample MW22-04-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
				5	⊗		229
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN SILT and CLAY					
5		Notes: 1. Monitoring well installed upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **MW22-05**
LOCATION: 5535181, 0635405		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.78

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity, trace gravel					231
1				1		Sample MW22-05-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity					230
2				2		Sample MW22-05-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		SILT some clay, fine grained, light brown, moist, firm, no plasticity					229
3				3			
		SILT, some clay, fine grained, light brown, moist, soft, medium plasticity					
				4		Sample MW22-05-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4		CLAY and SILT, fine grained dark brown, moist, firm, medium plasticity					
				5			
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY and SILT					227
5		Notes: 1. Monitoring well installed upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

Appendix C Laboratory Analytical Reports

AECOM Canada Ltd.
ATTN: JEN MURRAY
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 07-NOV-22
Report Date: 19-JAN-23 07:57 (MT)
Version: FINAL REV. 2

Client Phone: 204-803-9508

Certificate of Analysis

Lab Work Order #: L2739445

Project P.O. #: 60484163
Job Reference: 60484163
C of C Numbers:
Legal Site Desc:

Comments:
19-JAN-2023 Revised report - F3 and F4 reporting on -107

Judy Dalmaijer
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-1 BH22-01 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	24.6		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	28600		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.44		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	10.1		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	233		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	1.13		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	0.31		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	20.5		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.238		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	32200		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	53.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	15.3		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	33.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	32700		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	13.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	43.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	25700		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	564		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	1.52		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	44.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	538		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	4790		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	0.13		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	2240		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	75.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	4100		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.345		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	298		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	3.45		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	81.9		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	86.5		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	19.0		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-1 BH22-01 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
PAHs in Sediment							
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	<0.15		0.15		10-NOV-22	11-NOV-22	R5890559
Surrogate: 2-Fluorobiphenyl	81.2		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	81.7		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	08-NOV-22	08-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	110.3		60-140	%	08-NOV-22	08-NOV-22	R5885297
Chrom. to baseline at nC50	YES				08-NOV-22	08-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
F2-Naphth	<25		25	mg/kg		17-NOV-22	
F3-PAH	<50		50	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-1 BH22-01 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	110.7		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	121.7		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	102.8		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-2 BH22-01 SS03							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	18.3		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	3910		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	1.66		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	30.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-2 BH22-01 SS03							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Beryllium (Be)	0.16		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	10.4		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.072		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	90700		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	11.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	2.38		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	5.36		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	6340		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	2.68		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	7.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	59700		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	195		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	0.26		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	7.35		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	394		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	750		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	601		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	37.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.060		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	315		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	0.848		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	15.1		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	11.2		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	7.0		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	08-NOV-22	08-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	116.5		60-140	%	08-NOV-22	08-NOV-22	R5885297
Chrom. to baseline at nC50	YES				08-NOV-22	08-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-2 BH22-01 SS03							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-2 BH22-01 SS03							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	125.2		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	130.0		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	120.2		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-3 BH22-01 SS06							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	35.5		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	28700		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.42		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	9.21		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	142		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	1.32		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.31		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	21.3		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.199		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	27800		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	56.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	15.7		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	31.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	34600		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	14.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	37.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	16700		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	433		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.85		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	46.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	549		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	6120		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	0.38		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.12		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	2030		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	85.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	12400		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.389		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	335		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	2.84		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	86.5		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	96.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	24.3		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	08-NOV-22	08-NOV-22	R5885297

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-3 BH22-01 SS06							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
F3 (C16-C34)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	115.4		60-140	%	08-NOV-22	08-NOV-22	R5885297
Chrom. to baseline at nC50	YES				08-NOV-22	08-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<20		20	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<78		78	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.14		0.14	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<1.0	DLIS	1.0	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.010	DLIS	0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.20	DLIS	0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.20	DLIS	0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.50	DLIS	0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.20	DLIS	0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.20	DLIS	0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.20	DLIS	0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.20	DLIS	0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.030	DLIS	0.030	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<20	DLIS	20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-3 BH22-01 SS06							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
2-Hexanone (Methyl butyl ketone)	<1.0	DLIS	1.0	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.20	DLIS	0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.20	DLIS	0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<1.0	DLIS	1.0	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<1.0	DLIS	1.0	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.40	DLIS	0.40	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.020	DLIS	0.020	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.10	DLIS	0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	117.9		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	105.5		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	105.4		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-4 BH22-03 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	27100		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.63		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	7.46		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	180		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.93		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	0.25		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	20.2		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.337		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	38500		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	41.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	11.4		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	28.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	25000		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	23.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	26.1		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	21900		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	541		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	0.45		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	32.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	614		50	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-4 BH22-03 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Potassium (K)	4950		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	0.36		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	0.18		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	286		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	73.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.270		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	4.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	142		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	2.26		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	69.8		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	89.7		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	7.7		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
L2739445-5 BH22-03 SS02							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	27.0		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	32200		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.40		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	8.75		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	247		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	1.12		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	0.26		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	28.4		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.300		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	58900		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	48.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	13.4		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	28.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	27700		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	12.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	35.9		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	25700		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	563		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	0.55		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	38.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	523		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	4350		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	0.13		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	1440		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	145		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	1800		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.314		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	244		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	3.68		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-5 BH22-03 SS02							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Vanadium (V)	94.0		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	78.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	11.2		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	08-NOV-22	08-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	114.2		60-140	%	08-NOV-22	08-NOV-22	R5885297
Chrom. to baseline at nC50	YES				08-NOV-22	08-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-5 BH22-03 SS02							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	110.2		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	126.3		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	105.5		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-6 BH22-03 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	19.0		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	6350		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	2.36		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	50.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.24		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	13.9		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.082		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	114000		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	15.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	3.58		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	8.82		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	8740		50	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-6 BH22-03 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Lead (Pb)	3.79		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	11.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	74600		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	222		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	0.31		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	10.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	337		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	1360		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	537		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	50.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.097		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	362		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	1.14		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	21.4		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	18.3		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	8.7		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	<0.15		0.15		10-NOV-22	11-NOV-22	R5890559
Surrogate: 2-Fluorobiphenyl	83.9		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	85.3		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	08-NOV-22	08-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-6 BH22-03 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
Surrogate: 2-Bromobenzotrifluoride	112.4		60-140	%	08-NOV-22	08-NOV-22	R5885297
Chrom. to baseline at nC50	YES				08-NOV-22	08-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
F2-Naphth	<25		25	mg/kg		17-NOV-22	
F3-PAH	<50		50	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-6 BH22-03 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	77.0		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	83.1		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	76.3		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-7 BH22-03 SS06							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	34.3		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	29200		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.38		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	9.00		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	234		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.25		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.32		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	18.6		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.228		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	15500		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	56.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	14.9		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	35.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	33700		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	14.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	40.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	18000		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	347		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.86		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	46.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-7 BH22-03 SS06							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Phosphorus (P)	575		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	5850		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	1.70		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.15		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	2360		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	70.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	3800		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.345		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	297		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	3.39		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	84.2		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	94.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	19.1		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	08-NOV-22	08-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	08-NOV-22	08-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	106.6		60-140	%	08-NOV-22	08-NOV-22	R5885297
Chrom. to baseline at nC50	YES				08-NOV-22	08-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-7 BH22-03 SS06							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	127.8		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	124.8		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	117.4		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-8 BH22-04 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	8230		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.20		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-8 BH22-04 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Arsenic (As)	3.67		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	98.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.30		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	12.2		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.147		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	90500		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	21.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	7.56		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	12.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	10800		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	7.80		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	11.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	60400		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	513		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	0.47		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	16.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	416		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	1500		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	0.15		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	268		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	46.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.123		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	302		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	0.743		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	27.5		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	27.3		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	8.4		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
L2739445-9 BH22-04 SS02							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	25.8		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	26800		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.38		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	8.13		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	197		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	1.01		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	0.26		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	18.3		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.277		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	65200		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	45.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	12.9		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	27.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	27600		50	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-9 BH22-04 SS02							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Lead (Pb)	11.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	28.3		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	27700		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	476		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	0.45		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	36.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	465		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	4320		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	0.12		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	436		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	79.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.285		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	257		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	1.16		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	74.5		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	72.1		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	12.5		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	<0.15		0.15		10-NOV-22	11-NOV-22	R5890559
Surrogate: 2-Fluorobiphenyl	82.0		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	67.4		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-9 BH22-04 SS02							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
Surrogate: 2-Bromobenzotrifluoride	112.7		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
F2-Naphth	<25		25	mg/kg		17-NOV-22	
F3-PAH	<50		50	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-9 BH22-04 SS02							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	127.7		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	118.8		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	115.6		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-10 BH22-04 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	18.4		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	6070		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	2.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	46.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.26		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	12.7		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.083		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	108000		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	14.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	3.77		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	8.68		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	8740		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	3.76		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	10.6		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	68400		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	244		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	0.20		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	10.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-10 BH22-04 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Phosphorus (P)	329		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	1210		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	281		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	44.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.091		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	336		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	0.552		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	20.7		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	18.7		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	8.5		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	97.1		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-10 BH22-04 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	126.6		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	126.1		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	124.3		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-11 BH22-05 SS08							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	30.4		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	12800		50	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-11 BH22-05 SS08							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Antimony (Sb)	0.51		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	9.91		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	249		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.61		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	9.0		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.402		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	42200		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	22.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	7.92		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	24.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	22200		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	11.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	16.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	15700		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	383		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	1.46		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	26.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	679		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	1790		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	1.03		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	0.13		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	331		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	77.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	8800		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.186		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	124		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	2.05		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	38.4		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	63.9		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	11.4		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	109.4		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-11 BH22-05 SS08							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-11 BH22-05 SS08							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	127.1		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	114.5		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	121.0		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-12 BH22-05 SS02							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	22.3		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	21300		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	1.14		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	7.81		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	231		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.73		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	1.56		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	16.3		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	1.17		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	65400		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	138		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	9.65		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	53.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	20900		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	75.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	21.7		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	40500		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	458		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	0.72		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	32.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	1350		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	3280		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	0.28		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	3.25		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	348		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	80.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.237		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	10.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	224		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	1.84		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	57.2		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	152		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	3.2		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-12 BH22-05 SS02							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	107.1		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	0.063		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-12 BH22-05 SS02							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	122.8		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	109.2		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	115.8		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-13 BH22-05 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	17.5		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	5410		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	2.18		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	54.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.21		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	12.5		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.074		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	113000		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	13.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	3.37		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	7.25		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	7720		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	3.34		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	9.7		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	67500		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	232		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-13 BH22-05 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Molybdenum (Mo)	0.46		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	10.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	330		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	1100		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	267		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	48.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.078		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	330		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	0.655		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	19.0		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	15.5		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	7.8		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	<0.15		0.15		10-NOV-22	11-NOV-22	R5890559
Surrogate: 2-Fluorobiphenyl	81.3		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	81.4		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	108.9		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
F2-Naphth	<25		25	mg/kg		17-NOV-22	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-13 BH22-05 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
CCME Total Hydrocarbons							
F3-PAH	<50		50	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-13 BH22-05 SS04							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	119.2		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	125.9		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	123.1		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-14 BH22-05 SS06							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	26.3		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	9730		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.47		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	10.0		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	253		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.47		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	8.1		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.302		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	46400		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	17.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	5.43		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	21.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	20900		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	9.97		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	12.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	16900		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	294		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	1.44		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	22.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	709		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	1330		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	0.86		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	0.11		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-14 BH22-05 SS06							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Sodium (Na)	292		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	77.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	7900		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.143		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	142		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	1.91		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	31.6		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	56.3		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	11.1		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	102.6		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-14 BH22-05 SS06							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	88.9		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	80.8		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	81.6		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-15 MW22-02 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	20.8		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	22100		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.75		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	7.20		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	179		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	0.91		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-15 MW22-02 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Bismuth (Bi)	0.33		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	19.4		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.372		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	57500		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	40.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	10.8		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	30.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	24300		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	21.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	29.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	32600		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	502		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	0.60		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	32.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	561		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	3930		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.27		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	445		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	76.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.256		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	227		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.30		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	62.6		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	74.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	10.6		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	105.6		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-15 MW22-02 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-15 MW22-02 SS01							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	129.1		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	126.9		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	115.5		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-16 MW22-02 SS03							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	21.1		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	9180		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.19		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	3.77		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	66.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.34		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	13.3		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.150		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	89100		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	18.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	5.06		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	12.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	11500		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	5.32		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	13.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	57800		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	305		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	0.60		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	15.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	414		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	1450		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	574		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	58.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.136		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	319		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	1.31		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	29.9		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	26.6		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	10.1		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-16 MW22-02 SS03							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	110.5		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-16 MW22-02 SS03							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	129.3		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	133.2	SHMI	70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	126.2		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-17 MW22-02 SS05							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	34.8		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	27000		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.47		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	9.29		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	261		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	1.15		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	0.32		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	19.6		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.255		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	20200		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	53.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	20.2		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	33.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	31300		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	13.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	35.6		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	17200		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	1000		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	1.63		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	50.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	579		50	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-17 MW22-02 SS05							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Potassium (K)	5420		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	1.68		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	0.14		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	1790		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	81.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	6600		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.361		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	256		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	2.94		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	82.9		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	90.6		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	18.6		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	<0.15		0.15		10-NOV-22	11-NOV-22	R5890559
Surrogate: 2-Fluorobiphenyl	78.4		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	77.2		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	113.1		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
F2-Naphth	<25		25	mg/kg		17-NOV-22	
F3-PAH	<50		50	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-17 MW22-02 SS05							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	31-OCT-22	10-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Chloromethane	<0.15	DLCI	0.15	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	31-OCT-22	10-NOV-22	R5892757
F1	<10		10	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	31-OCT-22	10-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	31-OCT-22	10-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	31-OCT-22	10-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-17 MW22-02 SS05							
Sampled By: CLIENT on 31-OCT-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	31-OCT-22	10-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	31-OCT-22	10-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	118.1		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	118.6		70-130	%	31-OCT-22	10-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	105.0		70-130	%	31-OCT-22	10-NOV-22	R5892757
L2739445-18 BH22-09 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	27100		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.49		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	8.87		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	205		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.19		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.32		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	18.1		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.340		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	36100		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	46.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	14.5		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	31.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	31500		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	15.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	29.2		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	21900		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	551		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	1.29		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	42.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	608		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	4690		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.33		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.16		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	298		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	79.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.328		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-18 BH22-09 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	126		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.79		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	74.0		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	88.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	13.9		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
L2739445-19 BH22-09 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	28.5		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	34700		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.31		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	8.27		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	199		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.20		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.26		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	30.3		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.334		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	32600		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	51.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	14.0		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	28.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	31400		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	13.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	41.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	25600		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	728		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	0.36		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	39.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	567		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	5740		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.29		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.12		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	1700		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	112		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	2900		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.341		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	218		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	2.46		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	91.5		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	85.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	9.9		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-19 BH22-09 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	105.6		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	11-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	11-NOV-22	R5892757
F1	<10		10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-19 BH22-09 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	01-NOV-22	11-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	11-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	126.4		70-130	%	01-NOV-22	11-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	117.6		70-130	%	01-NOV-22	11-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	111.3		70-130	%	01-NOV-22	11-NOV-22	R5892757
L2739445-20 BH22-09 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	19.8		0.10	%		08-NOV-22	R5889196
% Particles > 75um (Coarse/Fine)							
MUST PSA % > 75um	5.3		1.0	%	15-NOV-22	15-NOV-22	R5892116
General Texture Class	Fine				15-NOV-22	15-NOV-22	R5892116
Metals in Soil by CRC ICPMS							
Aluminum (Al)	9810		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.20		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	4.23		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	105		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.34		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	13.0		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.178		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	77900		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	21.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	5.66		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	14.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	13000		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	6.20		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	15.9		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	52900		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	390		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-20 BH22-09 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Molybdenum (Mo)	0.85		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	16.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	450		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	1800		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Sodium (Na)	684		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	53.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.172		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	319		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	1.40		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	31.7		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	32.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	10.1		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	<0.15		0.15		10-NOV-22	11-NOV-22	R5890559
Surrogate: 2-Fluorobiphenyl	86.9		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	87.5		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	112.4		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
F2-Naphth	<25		25	mg/kg		17-NOV-22	

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-20 BH22-09 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
CCME Total Hydrocarbons							
F3-PAH	<50		50	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	11-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	11-NOV-22	R5892757
F1	<10		10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-20 BH22-09 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
MIBK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	01-NOV-22	11-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	11-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	102.4		70-130	%	01-NOV-22	11-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	108.2		70-130	%	01-NOV-22	11-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	92.7		70-130	%	01-NOV-22	11-NOV-22	R5892757
L2739445-21 BH22-09 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	35.6		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	25600		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.45		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	9.85		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	132		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	1.12		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	0.34		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	16.2		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.356		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	36200		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	46.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	14.2		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	32.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	28400		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	14.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	31.2		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	15100		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	459		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	1.16		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	43.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	527		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	4690		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	1.04		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.12		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-21 BH22-09 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Sodium (Na)	1610		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	85.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	21500		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.305		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	159		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	4.36		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	76.1		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	83.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	20.4		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	108.2		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	11-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-21 BH22-09 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	11-NOV-22	R5892757
F1	<10		10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	01-NOV-22	11-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	11-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	122.3		70-130	%	01-NOV-22	11-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	126.2		70-130	%	01-NOV-22	11-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	110.0		70-130	%	01-NOV-22	11-NOV-22	R5892757
L2739445-22 BH22-13 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	17000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.39		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	6.21		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	165		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	0.66		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.21		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-22 BH22-13 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Boron (B)	18.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.278		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	88400		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	35.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	8.55		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	22.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	20200		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	17.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	20.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	45400		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	387		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	0.91		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	25.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	594		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	3290		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.27		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.26		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	289		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	79.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	1400		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.209		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	263		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.17		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	49.0		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	61.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	1.3		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
L2739445-23 BH22-13 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	29.1		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	40100		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.38		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	8.33		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	204		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.40		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.30		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	27.3		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.322		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	20900		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	59.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	14.5		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	31.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	35300		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	15.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	38.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	18000		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	646		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-23 BH22-13 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Molybdenum (Mo)	0.23		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	43.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	475		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	6180		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.24		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	715		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	77.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.393		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	272		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.79		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	102		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	93.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	12.3		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	105.0		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	11-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-23 BH22-13 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	11-NOV-22	R5892757
F1	<10		10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	01-NOV-22	11-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	11-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	115.6		70-130	%	01-NOV-22	11-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	107.1		70-130	%	01-NOV-22	11-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	104.7		70-130	%	01-NOV-22	11-NOV-22	R5892757
L2739445-24 BH22-13 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	22.9		0.10	%		08-NOV-22	R5889196

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-24 BH22-13 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	19400		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.40		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	7.74		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	313		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.85		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	0.25		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	16.0		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.370		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	59600		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	36.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	13.1		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	27.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	22300		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	12.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	25.6		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	28900		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	687		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	1.60		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	37.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	491		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	3060		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.11		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	523		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	105		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.274		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	201		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	2.03		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	61.3		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	65.9		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	12.9		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-24 BH22-13 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	<0.15		0.15		10-NOV-22	11-NOV-22	R5890559
Surrogate: 2-Fluorobiphenyl	85.1		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	88.0		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	100.3		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
F2-Naphth	<25		25	mg/kg		17-NOV-22	
F3-PAH	<50		50	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	11-NOV-22	R5892757
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-24 BH22-13 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2,2-Dichloropropane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
cis-1,3-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
trans-1,3-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	11-NOV-22	R5892757
F1	<10		10	mg/kg	01-NOV-22	11-NOV-22	R5892757
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Hexane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892757
MEK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
MIBK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892757
MTBE	<0.20		0.20	mg/kg	01-NOV-22	11-NOV-22	R5892757
Styrene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Toluene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	11-NOV-22	R5892757
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892757
Surrogate: 1,4-Difluorobenzene (SS)	123.4		70-130	%	01-NOV-22	11-NOV-22	R5892757
Surrogate: 3,4-Dichlorotoluene (SS)	101.7		70-130	%	01-NOV-22	11-NOV-22	R5892757
Surrogate: 4-Bromofluorobenzene (SS)	115.7		70-130	%	01-NOV-22	11-NOV-22	R5892757
L2739445-25 BH22-10 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	25.3		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	28600		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.42		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	9.17		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	232		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	1.13		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	0.28		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-25 BH22-10 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Boron (B)	20.9		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.284		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	69200		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	46.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	16.2		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	28.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	28000		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	13.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	31.3		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	24500		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	613		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.36		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	39.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	493		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	4020		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.12		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	554		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	110		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.333		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	230		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	1.75		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	85.8		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	74.3		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	11.7		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	<0.15		0.15		10-NOV-22	11-NOV-22	R5890559

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-25 BH22-10 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Surrogate: 2-Fluorobiphenyl	88.1		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	89.5		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	09-NOV-22	09-NOV-22	R5885297
F3 (C16-C34)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
F4 (C34-C50)	<50		50	mg/kg	09-NOV-22	09-NOV-22	R5885297
Surrogate: 2-Bromobenzotrifluoride	98.6		60-140	%	09-NOV-22	09-NOV-22	R5885297
Chrom. to baseline at nC50	YES				09-NOV-22	09-NOV-22	R5885297
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-25 BH22-10 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	115.4		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	99.8		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	106.5		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-26 BH22-10 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	18.2		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	5200		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	1.88		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	45.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	0.20		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	12.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.083		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	124000		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	12.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	3.17		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	7.10		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-26 BH22-10 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Iron (Fe)	7370		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	3.34		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	8.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	67200		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	239		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.29		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	9.66		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	294		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	1070		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	240		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	47.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.081		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	292		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	0.535		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	17.5		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	14.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	8.1		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	104.0		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-26 BH22-10 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	121.0		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	102.7		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	112.9		70-130	%	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-27 BH22-10 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	35.7		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	36000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.45		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	11.0		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	246		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.41		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.37		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	23.2		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.187		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	20000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	69.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	24.0		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	43.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	41300		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	17.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	47.2		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	19300		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	604		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	0.93		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	57.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	712		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	7490		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	1.25		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.16		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	601		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	89.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.513		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	463		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	2.40		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	98.3		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	113		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	24.2		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	105.1		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-27 BH22-10 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-27 BH22-10 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	120.5		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	105.7		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	117.3		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-28 BH22-11 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	21.7		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	19800		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	0.38		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	6.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	159		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	0.73		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	0.29		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	16.2		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.281		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058
Calcium (Ca)	73400		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	45.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Cobalt (Co)	8.86		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	24.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	21400		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lead (Pb)	16.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	22.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	37200		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	375		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	0.52		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	26.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	490		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	3290		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	1.08		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	420		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Strontium (Sr)	69.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.221		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	208		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	1.24		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-28 BH22-11 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Vanadium (V)	58.6		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	62.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	8.0		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	111.6		60-140	%	10-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-28 BH22-11 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	116.0		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	120.7		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	113.0		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-29 BH22-11 SS03							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	20.6		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	9190		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.16		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	3.87		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	67.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.37		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	14.7		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.113		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	112000		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	21.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	5.20		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	13.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	12600		50	ug/g	21-NOV-22	21-NOV-22	R5895476

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-29 BH22-11 SS03							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Lead (Pb)	5.88		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	15.7		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	70100		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	290		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.31		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	15.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	378		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	1860		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	349		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	53.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.142		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	415		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	0.785		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	30.6		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	28.1		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	12.3		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	<0.15		0.15		10-NOV-22	11-NOV-22	R5890559
Surrogate: 2-Fluorobiphenyl	86.1		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	88.0		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-29 BH22-11 SS03							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
Surrogate: 2-Bromobenzotrifluoride	106.2		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-29 BH22-11 SS03							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	116.8		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	99.4		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	118.0		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-30 BH22-11 SS05							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	22.3		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	25500		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.40		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	6.99		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	246		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.98		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	0.28		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	19.2		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.304		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	78600		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	47.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	12.6		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	29.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	26600		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	12.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	32.5		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	28700		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	451		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.43		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	37.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-30 BH22-11 SS05							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Phosphorus (P)	444		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	3990		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.11		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	407		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	121		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.340		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	357		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	1.51		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	74.1		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	72.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	19.1		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	104.8		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-30 BH22-11 SS05							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	116.1		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	112.0		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	108.8		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-31 MW22-01 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	27.4		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	34500		50	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-31 MW22-01 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Antimony (Sb)	0.36		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	8.03		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	183		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	1.32		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.29		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	17.4		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.251		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	10500		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	56.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	11.8		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	32.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	33300		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	15.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	27.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	14800		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	386		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.30		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	41.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	391		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	5940		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.22		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	543		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	46.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.378		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	123		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	0.695		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	94.6		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	98.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	13.0		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
PAHs in Sediment							
1-Methylnaphthalene	0.128		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	0.203		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	0.0142		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluorene	0.0170		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Naphthalene	0.0299		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-31 MW22-01 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	<0.15		0.15		10-NOV-22	11-NOV-22	R5890559
Surrogate: 2-Fluorobiphenyl	84.5		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	83.8		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	113.0		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	0.090		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-31 MW22-01 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	121.5		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	90.6		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	108.7		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-32 MW22-01 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	23.9		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	38100		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.49		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	10.9		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	189		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.48		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.32		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	27.0		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-32 MW22-01 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Cadmium (Cd)	0.263		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	42500		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	62.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	16.9		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	37.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	38600		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	15.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	44.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	26700		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	610		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	1.01		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	50.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	554		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	5600		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.15		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	619		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	95.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.413		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	322		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.57		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	104		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	97.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	17.6		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	108.1		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-32 MW22-01 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-32 MW22-01 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	107.8		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	88.5		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	95.7		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-33 MW22-01 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	20.8		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	10200		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.18		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	3.63		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	65.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.38		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	15.1		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.150		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	85200		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	22.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	5.92		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	15.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	12800		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	6.35		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	15.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	56100		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	338		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.58		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	17.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	461		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	1950		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	392		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	48.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.177		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	412		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	0.902		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	32.7		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	32.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	11.9		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	100.3		60-140	%	10-NOV-22	10-NOV-22	R5890961

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-33 MW22-01 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-33 MW22-01 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	122.0		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	94.7		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	107.8		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-34 BH22-08 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	23.4		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	18700		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	5.98		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	7.11		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	194		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.73		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	1.88		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	59.3		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.578		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	70700		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	74.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	9.75		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	43.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	19900		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	69.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	24.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	43700		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	472		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.68		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	30.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	808		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	3170		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	0.21		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-34 BH22-08 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Silver (Ag)	1.80		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	632		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	69.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.253		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	27.3		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	324		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	1.70		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	53.7		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	161		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	22.2		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	89.2		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-34 BH22-08 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	121.9		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	99.6		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	106.4		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-35 BH22-08 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	40.7		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	27000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	4.85		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	14.8		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	401		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-35 BH22-08 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Beryllium (Be)	1.00		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	4.60		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	23.2		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	8.39		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	48000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	513		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	11.5		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	302		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	28700		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	338		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	23.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	22600		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	416		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	2.60		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	69.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	6000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	3590		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.99		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	18.5		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	765		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	103		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	9200		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.437		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	48.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	146		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	1.35		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	3.62		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	66.5		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	722		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	3.1		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
PAHs in Sediment							
1-Methylnaphthalene	0.834		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
2-Methylnaphthalene	1.27		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthene	3.63		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acenaphthylene	0.366		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Acridine	1.58		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Anthracene	4.61		0.0040	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)anthracene	15.2		0.10	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(a)pyrene	12.5		0.050	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(b&j)fluoranthene	16.1		0.10	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(g,h,i)perylene	4.63		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Benzo(k)fluoranthene	4.22		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Chrysene	13.5		0.10	ug/g	10-NOV-22	11-NOV-22	R5890559
Dibenz(a,h)anthracene	1.51		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluoroanthene	32.2		0.050	ug/g	10-NOV-22	11-NOV-22	R5890559
Fluorene	4.52		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Indeno(1,2,3-cd)pyrene	4.79		0.010	ug/g	10-NOV-22	11-NOV-22	R5890559
Naphthalene	1.79		0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559
Phenanthrene	32.0		0.050	ug/g	10-NOV-22	11-NOV-22	R5890559
Pyrene	25.7		0.050	ug/g	10-NOV-22	11-NOV-22	R5890559
Quinoline	0.0917	R	0.0050	ug/g	10-NOV-22	11-NOV-22	R5890559

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-35 BH22-08 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
B(a)P Total Potency Equivalent	15.0		0.020	ug/g	10-NOV-22	11-NOV-22	R5890559
IACR (CCME)	178		0.15		10-NOV-22	11-NOV-22	R5890559
Surrogate: 2-Fluorobiphenyl	85.1		60-140	%	10-NOV-22	11-NOV-22	R5890559
Surrogate: d14-Terphenyl	91.9		60-140	%	10-NOV-22	11-NOV-22	R5890559
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	3890	DLM	130	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	19800	DLM	250	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	5970	DLM	250	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	103.0		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	114		10	mg/kg		16-NOV-22	
F2-Naphth	3880		130	mg/kg		16-NOV-22	
F3-PAH	19700		250	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	29800		380	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	0.159		0.071	mg/kg		16-NOV-22	
Xylenes (Total)	0.159		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	1.64		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892567
Benzene	0.0098		0.0050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
n-Butylbenzene	<4.0	DLCI	4.0	mg/kg	01-NOV-22	11-NOV-22	R5892567
sec-Butylbenzene	0.298	EMPC	0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	11-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,2-Dibromoethane	<0.10	DLCI	0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,2-Dichlorobenzene	0.133		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,3-Dichlorobenzene	0.084		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,4-Dichlorobenzene	0.713		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-35 BH22-08 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567
Ethylbenzene	0.039		0.015	mg/kg	01-NOV-22	11-NOV-22	R5892567
F1	114		10	mg/kg	01-NOV-22	11-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567
4-Isopropyltoluene	0.63		0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	11-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	11-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.30	DLCI	0.30	mg/kg	01-NOV-22	11-NOV-22	R5892567
Tetrachloroethene	0.089		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Toluene	0.215		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,2,4-Trichlorobenzene	0.131		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Trichloroethene	0.053		0.010	mg/kg	01-NOV-22	11-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,2,3-Trichloropropane	<0.10	DLCI	0.10	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,2,4-Trimethylbenzene	1.08		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
1,3,5-Trimethylbenzene	0.470		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
M+P-Xylenes	0.159		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	11-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	105.3		70-130	%	01-NOV-22	11-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	97.2		70-130	%	01-NOV-22	11-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	111.5		70-130	%	01-NOV-22	11-NOV-22	R5892567
L2739445-36 BH22-08 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	25.1		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	27900		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.47		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	10.2		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	204		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	1.08		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	0.30		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	19.7		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.256		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	54700		50	ug/g	21-NOV-22	21-NOV-22	R5895476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-36 BH22-08 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Chromium (Cr)	51.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	14.7		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	31.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	31300		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	13.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	32.9		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	25700		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	576		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.73		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	43.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	534		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	4780		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.14		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	414		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	75.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.324		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	309		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	1.52		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	80.7		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	78.7		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	16.5		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	103.2		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-36 BH22-08 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-36 BH22-08 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Surrogate: 1,4-Difluorobenzene (SS)	122.1		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	109.5		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	105.7		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-37 BH22-07 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	14.1		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	7100		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.11		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	2.40		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	58.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.24		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	14.2		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.093		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	103000		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	16.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	3.87		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	9.00		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	9300		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	4.25		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	10.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	66100		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	243		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.30		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	11.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	400		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	1370		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	241		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	47.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.110		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	373		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	0.765		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	23.8		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	20.9		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	9.4		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	59		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	96.8		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-37 BH22-07 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-37 BH22-07 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	107.6		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	86.7		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	93.0		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-38 BH22-07 SS03							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	24.4		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	17000		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Antimony (Sb)	0.24		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Arsenic (As)	5.90		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Barium (Ba)	132		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Beryllium (Be)	0.66		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Boron (B)	15.9		5.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Cadmium (Cd)	0.143		0.020	ug/g	21-NOV-22	21-NOV-22	R5895478
Calcium (Ca)	84600		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Chromium (Cr)	33.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Cobalt (Co)	10.7		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Copper (Cu)	21.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Iron (Fe)	19500		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lead (Pb)	9.22		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Lithium (Li)	24.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Magnesium (Mg)	56900		20	ug/g	21-NOV-22	21-NOV-22	R5895478
Manganese (Mn)	573		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Molybdenum (Mo)	0.56		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478
Nickel (Ni)	29.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Phosphorus (P)	453		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Potassium (K)	3050		100	ug/g	21-NOV-22	21-NOV-22	R5895478
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895478

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-38 BH22-07 SS03							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Sodium (Na)	367		50	ug/g	21-NOV-22	21-NOV-22	R5895478
Strontium (Sr)	68.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895478
Thallium (Tl)	0.237		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Titanium (Ti)	429		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895478
Uranium (U)	1.05		0.050	ug/g	21-NOV-22	21-NOV-22	R5895478
Vanadium (V)	48.1		0.20	ug/g	21-NOV-22	21-NOV-22	R5895478
Zinc (Zn)	48.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895478
Zirconium (Zr)	14.5		1.0	ug/g	21-NOV-22	21-NOV-22	R5895478
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	105.5		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-38 BH22-07 SS03							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	117.9		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	121.1		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	117.6		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-39 BH22-07 SS05							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	20.9		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	12300		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.24		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	4.72		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	115		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.47		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-39 BH22-07 SS05							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	15.2		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.227		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	76800		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	25.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	7.46		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	18.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	15100		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	7.97		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	17.3		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	49500		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	417		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.65		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	23.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	520		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	2280		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	329		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	55.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.205		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	359		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	1.03		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	39.7		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	41.5		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	12.5		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-39 BH22-07 SS05							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	88.4		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	90.0		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	105.8		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-39 BH22-07 SS05							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	120.2		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	104.2		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	106.9		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-40 BH22-07 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	22.2		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	12600		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.20		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	4.68		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	101		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.44		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	15.2		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.207		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	78000		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	24.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	6.67		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-40 BH22-07 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Copper (Cu)	16.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	14400		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	6.90		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	16.1		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	52400		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	394		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.55		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	20.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	554		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	2210		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	337		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	51.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.185		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	409		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	0.918		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	38.2		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	37.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	11.9		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	89.8		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	94.1		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-40 BH22-07 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	103.1		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-40 BH22-07 SS06							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	122.5		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	110.5		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	111.3		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-41 BH22-02 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	21800		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.49		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	7.88		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	198		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.91		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	0.35		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	16.9		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.315		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	52000		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	44.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	12.0		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	29.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	24900		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	16.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	28.1		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	31700		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	480		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.99		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-41 BH22-02 SS01							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Nickel (Ni)	35.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	586		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	3600		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	0.47		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.31		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	369		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	69.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.274		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	212		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	1.78		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	61.6		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	76.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	13.5		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
L2739445-42 BH22-02 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	28.6		0.10	%		08-NOV-22	R5889196
Metals in Soil by CRC ICPMS							
Aluminum (Al)	33700		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.39		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	8.53		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	233		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	1.13		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	0.26		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	25.4		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.358		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	61400		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	49.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	13.3		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	27.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	28700		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	12.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	35.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	27700		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	722		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.22		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	39.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	504		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	4900		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.12		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	283		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	127		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.324		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	273		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-42 BH22-02 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	1.86		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	93.9		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	78.5		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	9.4		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	96.4		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	0.064		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-42 BH22-02 SS02							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	104.2		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	99.96		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	91.3		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-43 BH22-02 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	16.6		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	4310		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	1.98		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	27.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.18		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	11.7		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.071		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	102000		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	11.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	2.57		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-43 BH22-02 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Copper (Cu)	6.47		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	6710		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	3.18		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	7.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	64000		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	193		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.21		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	7.84		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	406		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	890		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	218		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	40.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.065		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	330		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	0.604		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	16.1		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	12.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	7.7		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	90.4		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	91.4		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-43 BH22-02 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	107.4		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	01-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	01-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	01-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-43 BH22-02 SS04							
Sampled By: CLIENT on 01-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Hexachlorobutadiene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	01-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	01-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	01-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	01-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	01-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	116.4		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	117.0		70-130	%	01-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	113.7		70-130	%	01-NOV-22	10-NOV-22	R5892567
L2739445-44 BH22-06 SS02							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	23.0		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	33200		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.45		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	9.59		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	216		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	1.28		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.28		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	24.8		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.271		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	52900		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	57.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	14.9		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	33.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	35300		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	13.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	39.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	29400		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	468		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-44 BH22-06 SS02							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Molybdenum (Mo)	0.72		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	46.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	549		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	5170		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.12		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	522		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	79.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.379		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	338		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	5.60		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	99.0		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	84.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	18.4		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	10-NOV-22	10-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	10-NOV-22	10-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	108.4		60-140	%	10-NOV-22	10-NOV-22	R5890961
Chrom. to baseline at nC50	YES				10-NOV-22	10-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	02-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	02-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-44 BH22-06 SS02							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	02-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	02-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	02-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	02-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	02-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	02-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	02-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	105.4		70-130	%	02-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	96.7		70-130	%	02-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	96.0		70-130	%	02-NOV-22	10-NOV-22	R5892567
L2739445-45 BH22-06 SS03							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	17.9		0.10	%		09-NOV-22	R5889860

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-45 BH22-06 SS03							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	5830		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.11		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	2.41		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	40.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.23		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	13.7		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.095		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	116000		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	14.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	3.47		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	7.63		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	8140		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	3.56		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	10.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	72000		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	226		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.27		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	10.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	349		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	1060		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	<0.10		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	292		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	56.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.084		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	336		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	0.814		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	20.6		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	16.3		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	8.6		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-45 BH22-06 SS03							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	82.9		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	83.0		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	127.3		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		16-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	02-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	02-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-45 BH22-06 SS03							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	02-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	02-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	02-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	02-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	02-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	02-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	02-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	02-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	02-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	105.9		70-130	%	02-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	89.0		70-130	%	02-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	92.7		70-130	%	02-NOV-22	10-NOV-22	R5892567
L2739445-46 BH22-06 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	30.1		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	18600		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.52		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	9.71		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	284		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.82		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	0.26		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-46 BH22-06 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Boron (B)	11.6		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.347		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	30600		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	31.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	9.61		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	31.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	26100		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	12.9		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	22.6		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	16200		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	403		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	1.62		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	33.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	603		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	2550		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	0.45		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.13		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	414		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	81.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.235		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	119		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	2.21		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	50.1		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	76.7		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	11.3		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	118.4		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	02-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-46 BH22-06 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Carbon Tetrachloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloromethane	0.075	EMPC	0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	02-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-46 BH22-06 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Vinyl Chloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	126.6		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	120.1		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	103.9		70-130	%	02-NOV-22	09-NOV-22	R5891876
L2739445-47 BH22-12 SS01							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	30.1		0.10	%		09-NOV-22	R5889860
% Particles > 75um (Coarse/Fine)							
MUST PSA % > 75um	10.5		1.0	%	15-NOV-22	15-NOV-22	R5892116
General Texture Class	Fine				15-NOV-22	15-NOV-22	R5892116
Metals in Soil by CRC ICPMS							
Aluminum (Al)	21600		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.41		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	6.43		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	160		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.78		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	0.26		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	17.3		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.326		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	46100		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	40.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	10.4		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	27.1		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	22200		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	25.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	23.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	26800		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	440		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.67		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	30.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	574		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	3780		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	0.34		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.20		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	395		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	68.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.244		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	177		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	1.32		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	60.4		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	82.3		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	8.2		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-47 BH22-12 SS01							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	0.0063		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	0.0062		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	0.0164		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	0.059		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	0.0603		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	0.083		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	0.037		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	0.028		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	0.065		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	0.0098		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	0.126		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	0.0061		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	0.036		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	0.0716		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	0.101		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	0.092		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	1.13		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	89.1		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	93.6		60-140	%	10-NOV-22	16-NOV-22	R5892283
Detailed Salinity							
Chloride (Cl) (Saturated Paste)							
Chloride (Cl)	96		10	mg/L	14-NOV-22	14-NOV-22	R5891524
Detail Salinity in mg/kg							
Chloride (Cl)	81.8		8.5	mg/kg		15-NOV-22	
Calcium (Ca)	161		4.3	mg/kg		15-NOV-22	
Magnesium (Mg)	108		4.3	mg/kg		15-NOV-22	
Potassium (K)	15.2		4.3	mg/kg		15-NOV-22	
Sodium (Na)	101		4.3	mg/kg		15-NOV-22	
Sulfur (as SO4)	740		4.3	mg/kg		15-NOV-22	
SAR, Cations and SO4 in saturated soil							
Calcium (Ca)	188		5.0	mg/L	14-NOV-22	14-NOV-22	R5891920
Potassium (K)	17.8		5.0	mg/L	14-NOV-22	14-NOV-22	R5891920
Magnesium (Mg)	126		5.0	mg/L	14-NOV-22	14-NOV-22	R5891920
Sodium (Na)	118		5.0	mg/L	14-NOV-22	14-NOV-22	R5891920
SAR	1.64		0.10	SAR	14-NOV-22	14-NOV-22	R5891920
Sulfur (as SO4)	866		5.0	mg/L	14-NOV-22	14-NOV-22	R5891920
Theoretical Gypsum Requirement							
TGR(brine)	<0.10		0.10	t/ha		15-NOV-22	
TGR(sodic)	<0.10		0.10	t/ha		15-NOV-22	
pH and EC (Saturated Paste)							
% Saturation	85.4		1.0	%	11-NOV-22	12-NOV-22	R5890877
pH in Saturated Paste	7.46		0.10	pH	11-NOV-22	12-NOV-22	R5890877
Conductivity Sat. Paste	1.96		0.10	dS m-1	11-NOV-22	12-NOV-22	R5890877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-47 BH22-12 SS01							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
Surrogate: 2-Bromobenzotrifluoride	123.7		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	02-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-47 BH22-12 SS01							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	117.8		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	112.7		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	114.9		70-130	%	02-NOV-22	09-NOV-22	R5891876
L2739445-48 BH22-12 SS03							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	19.3		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	11300		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.17		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	3.39		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	73.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.39		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	14.8		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.147		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	90100		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	23.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	5.46		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	13.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	12500		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	6.26		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	16.5		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	59100		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	261		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.38		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	16.2		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-48 BH22-12 SS03							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Phosphorus (P)	451		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	1880		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	<0.20		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.11		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	300		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	57.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	<1000		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.142		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	397		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	1.16		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	33.2		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	30.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	9.6		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	126.9		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-48 BH22-12 SS03							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	02-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	113.2		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	101.3		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	108.9		70-130	%	02-NOV-22	09-NOV-22	R5891876
L2739445-49 BH22-12 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	34.6		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	28200		50	ug/g	21-NOV-22	21-NOV-22	R5895476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-49 BH22-12 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Antimony (Sb)	0.48		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	10.1		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	249		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	1.19		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	0.33		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	17.7		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.237		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	21100		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	51.3		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	16.7		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	35.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	32200		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	14.7		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	33.8		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	19200		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	817		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	1.38		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	47.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	603		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	5210		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	0.88		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.14		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	1270		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	80.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	3700		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.298		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	<2.0		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	167		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	3.47		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	83.4		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	88.9		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	15.9		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	132		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-49 BH22-12 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	02-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-49 BH22-12 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Trichloroethene	<0.010		0.010	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	118.0		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	99.7		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	118.5		70-130	%	02-NOV-22	09-NOV-22	R5891876
L2739445-50 BH22-14 SS01							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	23.8		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	22400		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Antimony (Sb)	0.67		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Arsenic (As)	7.40		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Barium (Ba)	212		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Beryllium (Be)	0.84		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Bismuth (Bi)	1.46		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Boron (B)	18.5		5.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Cadmium (Cd)	0.421		0.020	ug/g	21-NOV-22	21-NOV-22	R5895476
Calcium (Ca)	57900		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Chromium (Cr)	52.5		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Cobalt (Co)	11.1		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Copper (Cu)	34.6		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Iron (Fe)	24200		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lead (Pb)	33.4		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Lithium (Li)	27.7		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Magnesium (Mg)	35100		20	ug/g	21-NOV-22	21-NOV-22	R5895476
Manganese (Mn)	483		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Molybdenum (Mo)	0.72		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Nickel (Ni)	34.0		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Phosphorus (P)	635		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Potassium (K)	3460		100	ug/g	21-NOV-22	21-NOV-22	R5895476
Selenium (Se)	0.26		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Silver (Ag)	0.62		0.10	ug/g	21-NOV-22	21-NOV-22	R5895476
Sodium (Na)	875		50	ug/g	21-NOV-22	21-NOV-22	R5895476
Strontium (Sr)	76.8		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Sulfur (S)	1200		1000	ug/g	21-NOV-22	21-NOV-22	R5895476
Thallium (Tl)	0.284		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Tin (Sn)	3.1		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Titanium (Ti)	311		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Tungsten (W)	<0.50		0.50	ug/g	21-NOV-22	21-NOV-22	R5895476
Uranium (U)	1.70		0.050	ug/g	21-NOV-22	21-NOV-22	R5895476
Vanadium (V)	65.1		0.20	ug/g	21-NOV-22	21-NOV-22	R5895476
Zinc (Zn)	89.4		2.0	ug/g	21-NOV-22	21-NOV-22	R5895476
Zirconium (Zr)	12.4		1.0	ug/g	21-NOV-22	21-NOV-22	R5895476

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-50 BH22-14 SS01							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
1-Methylnaphthalene	0.0669		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	0.0921		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	0.143		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	0.0269		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	0.041		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	0.287		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	0.627		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	0.471		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	0.554		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	0.178		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	0.201		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	0.553		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	0.0652		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	1.27		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	0.182		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	0.204		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	0.172		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	1.29		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	1.03		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	0.0076		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	0.702		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	8.54		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	90.1		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	96.4		60-140	%	10-NOV-22	16-NOV-22	R5892283
Detailed Salinity							
Chloride (Cl) (Saturated Paste)							
Chloride (Cl)	470		100	mg/L	14-NOV-22	14-NOV-22	R5891524
Detail Salinity in mg/kg							
Chloride (Cl)	354		76	mg/kg		15-NOV-22	
Calcium (Ca)	358		38	mg/kg		15-NOV-22	
Magnesium (Mg)	364		38	mg/kg		15-NOV-22	
Potassium (K)	<38		38	mg/kg		15-NOV-22	
Sodium (Na)	336		38	mg/kg		15-NOV-22	
Sulfur (as SO4)	2600		38	mg/kg		15-NOV-22	
SAR, Cations and SO4 in saturated soil							
Calcium (Ca)	471	DLDS	50	mg/L	14-NOV-22	14-NOV-22	R5891920
Potassium (K)	<50	DLDS	50	mg/L	14-NOV-22	14-NOV-22	R5891920
Magnesium (Mg)	479	DLDS	50	mg/L	14-NOV-22	14-NOV-22	R5891920
Sodium (Na)	442	DLDS	50	mg/L	14-NOV-22	14-NOV-22	R5891920
SAR	3.42		0.10	SAR	14-NOV-22	14-NOV-22	R5891920
Sulfur (as SO4)	3420	DLDS	50	mg/L	14-NOV-22	14-NOV-22	R5891920
Theoretical Gypsum Requirement							
TGR(brine)	<0.10		0.10	t/ha		15-NOV-22	
TGR(sodic)	<0.10		0.10	t/ha		15-NOV-22	
pH and EC (Saturated Paste)							
% Saturation	76.1		1.0	%	11-NOV-22	12-NOV-22	R5890877
pH in Saturated Paste	7.53		0.10	pH	11-NOV-22	12-NOV-22	R5890877
Conductivity Sat. Paste	5.58		0.10	dS m-1	11-NOV-22	12-NOV-22	R5890877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-50 BH22-14 SS01							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	121.2		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	02-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-50 BH22-14 SS01							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Hexane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	109.8		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	101.2		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	112.2		70-130	%	02-NOV-22	09-NOV-22	R5891876
L2739445-51 BH22-14 SS03							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	19.2		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	10900		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.21		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	3.84		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	91.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	0.38		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	15.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.163		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	126000		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	20.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	5.01		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	12.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	12900		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	5.10		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	13.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	59800		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	334		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.26		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-51 BH22-14 SS03							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Nickel (Ni)	15.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	403		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	1660		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	358		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	73.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.155		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	357		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	0.846		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	34.4		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	26.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	8.3		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	135		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-51 BH22-14 SS03							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	02-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	114.0		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	104.7		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	121.3		70-130	%	02-NOV-22	09-NOV-22	R5891876
L2739445-52 BH22-14 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	31.2		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-52 BH22-14 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	30400		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.32		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	7.17		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	231		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.15		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.29		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	21.6		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.276		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	28500		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	62.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	17.2		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	39.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	32800		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	13.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	44.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	19600		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	523		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.86		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	50.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	621		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	6440		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.15		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	636		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	79.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.351		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	2.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	535		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	1.54		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	88.8		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	92.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	18.6		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	116		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-52 BH22-14 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromoform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	02-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-52 BH22-14 SS05							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	130.2	SURR-ND	70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	108.2		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	128.1		70-130	%	02-NOV-22	09-NOV-22	R5891876
L2739445-53 BH22-14 SS14							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	19.0		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	19100		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.45		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	6.08		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	191		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	0.71		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.29		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	20.2		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.329		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	77800		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	40.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	10.2		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	27.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	21500		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	31.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	22.4		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	46700		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	479		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.67		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	29.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	655		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	3800		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	0.22		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.30		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	829		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	69.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.249		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	376		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	1.30		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	60.6		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	73.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-53 BH22-14 SS14							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Zirconium (Zr)	12.5		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	0.0064		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	0.0097		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	0.058		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	0.0653		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	0.075		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	0.040		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	0.026		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	0.056		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	0.0094		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	0.0703		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	0.038		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	0.0322		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	0.0619		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	0.095		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	1.08		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	89.4		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	94.3		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	114		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	02-NOV-22	09-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-53 BH22-14 SS14							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Carbon Tetrachloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	02-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	02-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	02-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	02-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	02-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-53 BH22-14 SS14							
Sampled By: CLIENT on 02-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Vinyl Chloride	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	02-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	111.6		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	96.2		70-130	%	02-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	113.5		70-130	%	02-NOV-22	09-NOV-22	R5891876
L2739445-54 BH22-19 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	25.5		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	30000		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.35		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	8.40		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	210		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.24		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	27.8		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.306		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	64500		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	49.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	12.0		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	26.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	28400		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	12.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	39.4		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	27800		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	494		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.57		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	35.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	493		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	4790		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.18		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	517		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	151		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.284		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	296		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	2.04		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	90.2		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	77.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	10.6		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-54 BH22-19 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	0.012		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	0.0124		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	0.017		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	0.015		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	0.0252		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	0.0139		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	0.0222		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	0.23		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	82.7		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	83.5		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	124		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-54 BH22-19 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	122.1		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	121.0		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	122.5		70-130	%	03-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-55 BH22-19 SS04							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	21.2		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	7560		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	0.12		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	2.90		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	60.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	0.27		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	13.1		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.086		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058
Calcium (Ca)	125000		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	16.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Cobalt (Co)	3.78		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	9.03		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	9290		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lead (Pb)	3.81		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	11.5		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	67400		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	231		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	0.22		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	11.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	345		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	1460		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	474		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Strontium (Sr)	59.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.095		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	341		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	0.725		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Vanadium (V)	23.9		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	19.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	8.1		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	127		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-55 BH22-19 SS04							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-55 BH22-19 SS04							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	113.7		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	125.1		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	118.2		70-130	%	03-NOV-22	09-NOV-22	R5891876
L2739445-56 BH22-19 SS06							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	35.2		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	34000		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.40		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	8.73		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	290		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	1.36		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.34		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	24.6		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.302		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	21000		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	69.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	22.6		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	41.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	38800		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	16.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	46.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	21000		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	759		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	1.03		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	58.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	653		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	7470		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	0.23		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.16		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	1140		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	88.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	1100		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.454		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	563		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	2.29		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-56 BH22-19 SS06							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Vanadium (V)	101		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	105		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	23.5		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	123		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-56 BH22-19 SS06							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	135.3	SURR-ND	70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	130.8	SURR-ND	70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	133.5	SURR-ND	70-130	%	03-NOV-22	09-NOV-22	R5891876
L2739445-57 ST-A1							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	36.1		0.10	%		09-NOV-22	R5889860
Metals in Soil by CRC ICPMS							
Aluminum (Al)	27700		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.34		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	6.41		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	157		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.07		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.24		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	14.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.373		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	13000		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	42.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	12.0		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	29.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	27100		50	ug/g	22-NOV-22	22-NOV-22	R5895897

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-57 ST-A1							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Lead (Pb)	21.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	21.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	11700		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	392		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.36		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	34.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	602		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	5920		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	0.35		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.14		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	242		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	47.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.295		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	103		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	1.52		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	69.4		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	95.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	12.2		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	0.0092		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	0.0064		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	87.8		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	90.1		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-57 ST-A1							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
Surrogate: 2-Bromobenzotrifluoride	123.7		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-57 ST-A1							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	135.2	SURR-ND	70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	134.8	SURR-ND	70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	137.4	SURR-ND	70-130	%	03-NOV-22	09-NOV-22	R5891876
L2739445-58 ST-A2							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	33.6		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	33700		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.35		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	9.14		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	184		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.16		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.26		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	21.1		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.365		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	14000		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	49.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	14.0		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	32.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	30700		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	19.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	28.2		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	14500		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	683		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.37		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	39.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-58 ST-A2							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Phosphorus (P)	726		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	6640		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	0.37		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	185		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	44.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.314		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	180		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	1.11		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	88.2		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	97.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	9.2		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	0.0124		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	0.0069		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	0.0087		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	87.4		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	86.2		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	112.7		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-58 ST-A2							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-58 ST-A2							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	124.5		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	114.7		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	119.3		70-130	%	03-NOV-22	09-NOV-22	R5891876
L2739445-59 BH22-20 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	27.5		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	30900		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.35		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	8.42		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	228		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	1.07		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.23		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	24.1		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.351		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	48700		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	50.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	12.8		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	28.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	27500		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	12.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	30.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	25400		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	555		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.38		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	36.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	538		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	4930		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	0.23		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.17		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	388		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	96.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-59 BH22-20 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Thallium (Tl)	0.289		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	260		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	1.36		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	90.8		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	82.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	9.2		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	0.0059		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	0.0063		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	0.0052		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	86.5		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	90.0		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	126.7		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-59 BH22-20 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-59 BH22-20 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	121.1		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	116.4		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	132.2	SURR-ND	70-130	%	03-NOV-22	09-NOV-22	R5891876
L2739445-60 BH22-20 SS04							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	19.4		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	12300		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.18		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	4.59		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	88.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	0.47		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	15.5		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.123		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	110000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	24.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	6.43		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	14.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	15000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	6.40		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	17.4		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	66900		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	309		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	0.27		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	18.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	429		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	2040		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	337		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	61.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.162		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	346		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	0.778		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	35.6		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-60 BH22-20 SS04							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Zinc (Zn)	32.4		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	10.2		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	121		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-60 BH22-20 SS04							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	122.2		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	121.7		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	121.8		70-130	%	03-NOV-22	09-NOV-22	R5891876
L2739445-61 BH22-20 SS05							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	34.5		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	28600		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.45		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	9.83		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	233		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.25		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.33		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	19.4		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.388		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	22400		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	52.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	20.1		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	35.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	33100		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	15.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-61 BH22-20 SS05							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Lithium (Li)	33.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	18000		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	896		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	1.83		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	63.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	570		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	5320		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	462		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	75.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.365		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	176		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.49		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	83.2		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	88.2		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	13.9		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	114.5		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-61 BH22-20 SS05							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	120.3		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	129.8		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	129.5		70-130	%	03-NOV-22	09-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-62 C-LD							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	30.3		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	32300		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.40		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	8.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	190		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.19		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.28		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	27.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.386		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	25300		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	47.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	13.3		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	30.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	29700		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	21.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	32.2		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	21100		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	716		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	0.30		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	38.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	695		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	6240		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.37		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.15		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	229		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	78.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.323		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	188		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	0.807		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	84.1		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	92.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	9.2		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	0.0157		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-62 C-LD							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	0.0097		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	0.0110		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	85.7		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	87.1		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	112.9		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	09-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Chloromethane	0.071		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-62 C-LD							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	09-NOV-22	R5891876
F1	<10		10	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	09-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	03-NOV-22	09-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	03-NOV-22	09-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	09-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	97.8		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	111.2		70-130	%	03-NOV-22	09-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	98.8		70-130	%	03-NOV-22	09-NOV-22	R5891876
L2739445-63 BH22-16 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	24.5		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	22500		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.55		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	11.5		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	148		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-63 BH22-16 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Beryllium (Be)	1.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.32		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	15.6		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.357		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	33500		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	42.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	13.9		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	37.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	30200		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	18.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	29.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	16800		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	487		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	1.36		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	38.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	618		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	3740		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.47		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.23		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	391		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	86.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.305		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	86.1		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.93		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	63.5		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	91.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	14.3		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Detailed Salinity							
Chloride (Cl) (Saturated Paste)							
Chloride (Cl)	35		10	mg/L	17-NOV-22	17-NOV-22	R5893517
Detail Salinity in mg/kg							
Chloride (Cl)	36		10	mg/kg		21-NOV-22	
Calcium (Ca)	121		5.2	mg/kg		21-NOV-22	
Magnesium (Mg)	44.4		5.2	mg/kg		21-NOV-22	
Potassium (K)	19.1		5.2	mg/kg		21-NOV-22	
Sodium (Na)	78.7		5.2	mg/kg		21-NOV-22	
Sulfur (as SO4)	389		5.2	mg/kg		21-NOV-22	
SAR, Cations and SO4 in saturated soil							
Calcium (Ca)	116		5.0	mg/L	17-NOV-22	17-NOV-22	R5894736
Potassium (K)	18.4		5.0	mg/L	17-NOV-22	17-NOV-22	R5894736
Magnesium (Mg)	42.8		5.0	mg/L	17-NOV-22	17-NOV-22	R5894736
Sodium (Na)	75.8		5.0	mg/L	17-NOV-22	17-NOV-22	R5894736
SAR	1.53		0.10	SAR	17-NOV-22	17-NOV-22	R5894736
Sulfur (as SO4)	375		5.0	mg/L	17-NOV-22	17-NOV-22	R5894736
Theoretical Gypsum Requirement							
TGR(brine)	<0.10		0.10	t/ha		21-NOV-22	
TGR(sodic)	<0.10		0.10	t/ha		21-NOV-22	
pH and EC (Saturated Paste)							
% Saturation	104		1.0	%	16-NOV-22	17-NOV-22	R5893621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-63 BH22-16 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
pH and EC (Saturated Paste)							
pH in Saturated Paste	7.55		0.10	pH	16-NOV-22	17-NOV-22	R5893621
Conductivity Sat. Paste	1.14		0.10	dS m-1	16-NOV-22	17-NOV-22	R5893621
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	108		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	120.8		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	108		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-63 BH22-16 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	120.6		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	122.3		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	126.8		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-64 BH22-16 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	41.4		0.10	%		10-NOV-22	R5890387
F4G-SG	6740		500	mg/kg		18-NOV-22	R5894231
% Particles > 75um (Coarse/Fine)							
MUST PSA % > 75um	8.0		1.0	%	15-NOV-22	15-NOV-22	R5892116
General Texture Class	Fine				15-NOV-22	15-NOV-22	R5892116
Metals in Soil by CRC ICPMS							
Aluminum (Al)	27000	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Antimony (Sb)	8.96	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Arsenic (As)	13.3	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Barium (Ba)	572	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Beryllium (Be)	0.94	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Bismuth (Bi)	5.45	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Boron (B)	23	DLHC	10	ug/g	23-NOV-22	23-NOV-22	R5896677
Cadmium (Cd)	11.8	DLHC	0.040	ug/g	23-NOV-22	23-NOV-22	R5896677
Calcium (Ca)	61300	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Chromium (Cr)	781	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-64 BH22-16 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Cobalt (Co)	9.58	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Copper (Cu)	279	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Iron (Fe)	23700	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Lead (Pb)	415	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Lithium (Li)	18.7	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Magnesium (Mg)	26400	DLHC	40	ug/g	23-NOV-22	23-NOV-22	R5896677
Manganese (Mn)	431	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Molybdenum (Mo)	2.02	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Nickel (Ni)	76.3	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Phosphorus (P)	7980	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Potassium (K)	3260	DLHC	200	ug/g	23-NOV-22	23-NOV-22	R5896677
Selenium (Se)	1.32	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Silver (Ag)	25.5	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Sodium (Na)	810	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Strontium (Sr)	128	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Sulfur (S)	2600	DLHC	2000	ug/g	23-NOV-22	23-NOV-22	R5896677
Thallium (Tl)	0.48	DLHC	0.10	ug/g	23-NOV-22	23-NOV-22	R5896677
Tin (Sn)	66.5	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Titanium (Ti)	248	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Tungsten (W)	3.3	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Uranium (U)	3.29	DLHC	0.10	ug/g	23-NOV-22	23-NOV-22	R5896677
Vanadium (V)	66.0	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Zinc (Zn)	969	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Zirconium (Zr)	<2.0	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
PAHs in Sediment							
1-Methylnaphthalene	0.152		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
2-Methylnaphthalene	0.418		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
Acenaphthene	0.0860		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
Acenaphthylene	0.0848		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
Acridine	0.120	AI	0.010	ug/g	17-NOV-22	21-NOV-22	R5895076
Anthracene	0.217		0.0040	ug/g	17-NOV-22	21-NOV-22	R5895076
Benzo(a)anthracene	0.632		0.010	ug/g	17-NOV-22	21-NOV-22	R5895076
Benzo(a)pyrene	1.15		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
Benzo(b&j)fluoranthene	1.23		0.010	ug/g	17-NOV-22	21-NOV-22	R5895076
Benzo(g,h,i)perylene	0.806		0.010	ug/g	17-NOV-22	21-NOV-22	R5895076
Benzo(k)fluoranthene	0.264		0.010	ug/g	17-NOV-22	21-NOV-22	R5895076
Chrysene	1.03		0.010	ug/g	17-NOV-22	21-NOV-22	R5895076
Dibenz(a,h)anthracene	0.173		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
Fluoroanthene	1.10		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
Fluorene	0.122		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
Indeno(1,2,3-cd)pyrene	0.558		0.010	ug/g	17-NOV-22	21-NOV-22	R5895076
Naphthalene	0.249		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
Phenanthrene	0.872		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
Pyrene	1.90		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
Quinoline	0.0058		0.0050	ug/g	17-NOV-22	21-NOV-22	R5895076
B(a)P Total Potency Equivalent	1.61		0.020	ug/g	17-NOV-22	21-NOV-22	R5895076
IACR (CCME)	15.9		0.15		17-NOV-22	21-NOV-22	R5895076
Surrogate: 2-Fluorobiphenyl	95.9		60-140	%	17-NOV-22	21-NOV-22	R5895076
Surrogate: d14-Terphenyl	98.3		60-140	%	17-NOV-22	21-NOV-22	R5895076
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-64 BH22-16 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	268		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	4830		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	1780		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	113.8		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	NO				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		21-NOV-22	
F2-Naphth	268		25	mg/kg		21-NOV-22	
F3-PAH	4820		50	mg/kg		21-NOV-22	
Total Hydrocarbons (C6-C50)	6880		76	mg/kg		21-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	0.071		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	0.277		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	0.017		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-64 BH22-16 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	0.276		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	0.022		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	0.056		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	0.066		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	127.5		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	118.5		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	98.0		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-65 BH22-16 SS05							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	19.1		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	17600		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.33		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	5.04		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	159		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	0.74		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.24		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	15.2		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.377		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	57200		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	36.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	10.4		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	24.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	22400		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	10.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	21.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	32000		20	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-65 BH22-16 SS05							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Manganese (Mn)	454		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.60		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	31.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	509		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	3400		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.15		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	412		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	61.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.274		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	258		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	1.07		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	59.3		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	59.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	11.5		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	132.9		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-65 BH22-16 SS05							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	117.5		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	117.6		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	112.7		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-66 BH22-17 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-66 BH22-17 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	26000		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.49		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	10.5		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	213		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.25		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.34		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	17.0		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.326		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	37000		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	48.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	15.1		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	41.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	33600		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	16.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	32.5		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	18000		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	609		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	1.53		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	47.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	648		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	4980		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	1.13		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.19		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	373		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	95.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.290		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	126		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	2.43		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	78.5		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	99.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	14.9		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
L2739445-67 BH22-17 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	24.7		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	20100		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.51		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	9.16		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	165		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.01		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.26		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	13.2		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.333		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	36500		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	33.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	12.4		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-67 BH22-17 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Copper (Cu)	30.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	27300		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	13.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	27.2		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	18300		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	546		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	1.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	35.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	557		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	3120		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.56		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.14		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	395		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	81.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.233		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	106		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.90		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	52.6		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	80.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	13.7		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	120.9		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-67 BH22-17 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	117.9		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	120.3		70-130	%	04-NOV-22	10-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-67 BH22-17 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Surrogate: 4-Bromofluorobenzene (SS)	117.0		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-68 BH22-17 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	22.0		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	30500		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	0.41		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	10.4		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	220		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	1.27		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	0.33		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	19.0		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.279		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058
Calcium (Ca)	19500		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	56.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Cobalt (Co)	16.4		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	35.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	35000		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lead (Pb)	14.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	34.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	16300		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	492		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	1.09		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	47.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	589		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	5730		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	0.63		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	0.14		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	649		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Strontium (Sr)	81.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	1100		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.349		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	194		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	1.99		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Vanadium (V)	88.8		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	98.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	15.8		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	0.0065		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	0.011		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-68 BH22-17 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	0.0078		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	0.0052		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	0.0069		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	83.1		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	86.4		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	118.7		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-68 BH22-17 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	116.8		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	110.8		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	119.8		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-69 BH22-17 SS05							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	17.8		0.10	%		10-NOV-22	R5890387

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-69 BH22-17 SS05							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	9360		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.15		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	3.99		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	70.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	0.33		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	16.4		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.107		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	154000		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	19.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	4.85		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	10.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	11400		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	4.83		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	13.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	83400		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	314		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.16		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	13.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	448		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	1850		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	387		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	62.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.122		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	461		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	0.718		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	30.6		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	21.4		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	10.1		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	117.8		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-69 BH22-17 SS05							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-69 BH22-17 SS05							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	120.6		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	90.5		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	110.0		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-70 MW22-04 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	29.8		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	20000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	1.92		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	8.37		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	185		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	0.88		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.81		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	16.0		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.798		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	46000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	65.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	12.3		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	50.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	25600		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	39.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	24.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	27000		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	485		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	0.84		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	38.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	1110		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	4100		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.44		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.99		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	765		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	77.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.285		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	3.4		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	126		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.61		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	59.0		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	176		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-70 MW22-04 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Zirconium (Zr)	11.2		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	119.3		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-70 MW22-04 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	120.3		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	113.6		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	124.5		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-71 MW22-04 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	41.9		0.10	%		10-NOV-22	R5890387
F4G-SG	8890		500	mg/kg		18-NOV-22	R5894231
Metals in Soil by CRC ICPMS							
Aluminum (Al)	16300		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	9.74		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	9.73		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	504		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	0.61		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	3.47		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	19.5		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	9.01		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	85800		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	485		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	6.99		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	356		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	17400		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	503		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-71 MW22-04 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Lithium (Li)	16.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	37900		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	304		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	2.14		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	67.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	7720		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	1880		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.85		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	19.8		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	834		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	136		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	5300		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.395		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	57.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	163		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	2.20		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	3.49		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	36.2		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	970		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	1.3		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
PAHs in Sediment							
1-Methylnaphthalene	0.373		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	0.711		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	1.46		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	0.141		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	0.501		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	2.40		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	5.33		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	4.69		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	5.37		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	2.28		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	1.44		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	5.06		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	0.697		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	12.5		0.050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	1.55		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	2.43		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	0.686		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	11.3		0.050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	10.3		0.050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	0.0414		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	6.91		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	78.1		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	92.7		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	97.3		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	174		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	5660		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	2410		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	112		60-140	%	14-NOV-22	14-NOV-22	R5890961

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-71 MW22-04 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
Chrom. to baseline at nC50	NO				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		18-NOV-22	
F2-Naphth	173		25	mg/kg		18-NOV-22	
F3-PAH	5610		50	mg/kg		18-NOV-22	
Total Hydrocarbons (C6-C50)	8240		76	mg/kg		18-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	0.143		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	1.16		0.50	mg/kg	04-NOV-22	17-NOV-22	R5891876
Benzene	0.0128		0.0050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
n-Butylbenzene	0.086		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Carbon disulfide	0.28		0.25	mg/kg	04-NOV-22	17-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2-Dichlorobenzene	0.137		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,4-Dichlorobenzene	0.407		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
cis-1,2-Dichloroethene	0.124		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
Ethylbenzene	0.038		0.015	mg/kg	04-NOV-22	17-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	17-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	17-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-71 MW22-04 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	17-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	17-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	17-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Tetrachloroethene	0.115		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Toluene	0.343		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2,4-Trichlorobenzene	0.077		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Trichloroethene	0.077		0.010	mg/kg	04-NOV-22	17-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2,4-Trimethylbenzene	0.159		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
M+P-Xylenes	0.143		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	122.0		70-130	%	04-NOV-22	17-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	124.1		70-130	%	04-NOV-22	17-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	121.5		70-130	%	04-NOV-22	17-NOV-22	R5891876
L2739445-72 MW22-04 SS04							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	16.5		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	7700		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.14		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	3.43		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	63.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	0.28		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	13.6		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.103		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	134000		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	17.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	4.57		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	10.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	10200		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	4.51		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	12.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	72500		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	271		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.18		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	12.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	358		50	ug/g	22-NOV-22	22-NOV-22	R5895897

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-72 MW22-04 SS04							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Potassium (K)	1360		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	356		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	62.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.109		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	361		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	0.716		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	24.8		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	20.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	8.7		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	137.5		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	17-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	17-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-72 MW22-04 SS04							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	17-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	17-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	17-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	17-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	17-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	17-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	17-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	17-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	17-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	89.1		70-130	%	04-NOV-22	17-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	85.3		70-130	%	04-NOV-22	17-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	79.9		70-130	%	04-NOV-22	17-NOV-22	R5891876
L2739445-73 MW22-05 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	23.0		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	20700		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.57		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-73 MW22-05 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Arsenic (As)	7.38		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	182		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	0.87		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.36		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	19.4		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.477		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	70400		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	48.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	10.9		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	30.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	24300		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	24.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	25.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	34000		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	485		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.99		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	31.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	590		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	3610		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	0.32		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.48		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	894		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	82.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	1500		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.264		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	3.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	232		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	1.61		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	64.3		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	84.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	11.7		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	0.0079		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	0.0053		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	0.0058		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	0.0149		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	0.049		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	0.0602		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	0.070		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	0.037		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	0.022		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	0.058		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	0.0093	R	0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	0.103		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	0.0071		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	0.032		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	0.0051		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	0.0576		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-73 MW22-05 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Pyrene	0.0907		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	0.088		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	0.97		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	87.6		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	94.9		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	123		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-73 MW22-05 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	112.1		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	102.9		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	121.1		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-74 MW22-05 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	24.6		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	24600		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.75		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	9.85		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	222		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.01		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.57		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	18.5		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	1.06		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-74 MW22-05 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Calcium (Ca)	64800		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	90.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	12.8		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	46.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	27100		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	40.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	29.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	34300		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	475		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.98		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	42.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	1020		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	4490		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	0.34		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	1.66		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	722		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	79.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	1400		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.289		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	4.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	195		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	2.04		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	72.8		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	149		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	10.7		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	301		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	156		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	121		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	457		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-74 MW22-05 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-74 MW22-05 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	115.2		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	105.3		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	116.5		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-75 MW22-05 SS04							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	20.9		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	13800		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.21		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	4.89		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	92.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	0.47		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	17.1		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.197		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	105000		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	28.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	7.35		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	19.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	16500		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	7.40		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	18.5		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	65800		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	455		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.49		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	22.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	542		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	2870		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	468		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	55.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.204		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	491		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	0.885		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	43.9		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	42.4		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	12.6		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	14-NOV-22	14-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	14-NOV-22	14-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	127.7		60-140	%	14-NOV-22	14-NOV-22	R5890961
Chrom. to baseline at nC50	YES				14-NOV-22	14-NOV-22	R5890961

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-75 MW22-05 SS04							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		15-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		15-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-75 MW22-05 SS04							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	111.3		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	107.7		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	114.6		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-76 BH22-24 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	22000		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.40		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	6.92		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	187		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	0.85		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.27		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	20.3		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.359		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	68600		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	47.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	11.0		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	28.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	25100		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	15.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	26.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	42300		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	477		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.72		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	32.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	578		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	3950		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	0.32		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.33		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	1140		50	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-76 BH22-24 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Strontium (Sr)	76.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	1700		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.273		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	309		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	1.48		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	67.4		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	75.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	12.0		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
L2739445-77 BH22-24 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	22.9		0.10	%		10-NOV-22	R5890387
Metals in Soil by CRC ICPMS							
Aluminum (Al)	24400		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.27		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	7.12		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	175		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	0.92		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.24		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	21.1		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.222		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	81900		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	50.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	13.0		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	28.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	28300		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	11.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	35.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	53300		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	529		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.47		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	37.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	541		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	4670		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.11		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	802		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	73.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.329		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	613		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	1.13		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	68.2		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	71.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	19.7		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
VOC plus F1-F4 by Tumbler							

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-77 BH22-24 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	111.7		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-77 BH22-24 SS02							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	111.8		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	100.5		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	113.3		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-78 BH22-24 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	17.7		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	5940		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	1.73		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	45.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	0.23		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	11.6		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.102		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	101000		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	14.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	3.06		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	7.40		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	7940		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	3.33		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	8.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	59200		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	206		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.19		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-78 BH22-24 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Nickel (Ni)	8.99		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	416		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	1130		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	296		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	39.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.083		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	374		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	0.553		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	19.4		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	15.4		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	8.8		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	88.3		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	94.5		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	106.5		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-78 BH22-24 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
CCME Total Hydrocarbons							
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-78 BH22-24 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	121.3		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	116.6		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	127.1		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-79 BH22-23 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	24.7		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	25900		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	0.41		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	9.27		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	163		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	1.07		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	0.28		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	16.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.319		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058
Calcium (Ca)	40900		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	45.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Cobalt (Co)	13.7		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	30.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	28700		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lead (Pb)	13.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	29.2		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	23400		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	501		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	1.22		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	39.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	563		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	4670		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	0.47		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	0.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	1500		50	ug/g	22-NOV-22	22-NOV-22	R5896058

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-79 BH22-23 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Strontium (Sr)	85.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	3400		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.288		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	128		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	2.22		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Vanadium (V)	75.2		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	84.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	14.2		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	80.6		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	86.8		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	103.3		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-79 BH22-23 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-79 BH22-23 SS01							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	115.1		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	120.0		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	121.8		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-80 BH22-23 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	19.2		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	8990		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.19		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	3.77		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	71.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	0.32		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	13.1		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.175		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	104000		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	19.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	5.06		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	12.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	11700		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	4.70		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	11.2		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	57800		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	362		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.27		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	14.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	419		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	1700		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	308		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	51.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.140		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	385		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-80 BH22-23 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Uranium (U)	0.652		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	30.7		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	23.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	9.8		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	102.8		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-80 BH22-23 SS03							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	123.4		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	106.1		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	116.0		70-130	%	04-NOV-22	10-NOV-22	R5891876
L2739445-81 BH22-23 SS05							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	35.9		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	29100		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.40		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	7.95		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	249		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.23		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.30		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	20.8		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.402		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	39500		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	55.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	15.4		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	35.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-81 BH22-23 SS05							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Iron (Fe)	32800		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	14.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	37.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	25100		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	619		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	0.85		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	47.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	544		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	5760		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.29		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.15		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	434		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	81.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.348		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	289		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.76		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	81.8		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	88.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	18.0		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	101.8		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	04-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-81 BH22-23 SS05							
Sampled By: CLIENT on 04-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
4-Chlorotoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	04-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	04-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	04-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	04-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	04-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	04-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	121.7		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	128.0		70-130	%	04-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	126.8		70-130	%	04-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-82 BH22-22 SS01							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	27200		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.69		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	9.56		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	244		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.45		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	20.3		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.657		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	63700		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	67.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	13.6		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	41.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	30200		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	30.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	31.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	34200		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	552		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.91		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	40.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	814		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	4800		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	0.32		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.86		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	334		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	99.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.332		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	3.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	226		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	1.85		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	78.2		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	119		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	14.0		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
L2739445-83 BH22-22 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	21.2		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	18300		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	0.40		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	6.67		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	147		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	0.76		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	0.25		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	15.3		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.354		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058
Calcium (Ca)	62500		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	39.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-83 BH22-22 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Cobalt (Co)	9.33		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	30.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	21300		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lead (Pb)	14.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	21.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	29100		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	412		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	0.80		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	28.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	513		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	3330		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	0.39		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	0.34		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	708		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Strontium (Sr)	70.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	1200		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.205		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	175		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	1.47		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Vanadium (V)	54.3		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	71.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	11.0		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	105.1		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-83 BH22-22 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Chloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	05-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	126.0		70-130	%	05-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-83 BH22-22 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Surrogate: 3,4-Dichlorotoluene (SS)	95.8		70-130	%	05-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	121.3		70-130	%	05-NOV-22	10-NOV-22	R5891876
L2739445-84 BH22-22 SS04							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	17.6		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	6600		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	2.47		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	50.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	0.22		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	12.5		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.085		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058
Calcium (Ca)	126000		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	14.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Cobalt (Co)	3.53		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	7.98		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	8600		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lead (Pb)	3.58		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	9.5		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	68600		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	237		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	0.24		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	10.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	369		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	1350		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	330		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Strontium (Sr)	52.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.090		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	355		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	0.580		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Vanadium (V)	21.5		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	17.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	8.5		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-84 BH22-22 SS04							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	89.4		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	95.3		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	114.3		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-84 BH22-22 SS04							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	05-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	112.0		70-130	%	05-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	86.0		70-130	%	05-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	104.3		70-130	%	05-NOV-22	10-NOV-22	R5891876
L2739445-85 BH22-22 SS06							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-85 BH22-22 SS06							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Moisture	34.1		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	31000		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.47		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	11.2		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	254		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	1.40		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.32		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	22.3		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.283		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	16200		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	57.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	21.0		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	37.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	36400		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	15.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	33.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	14100		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	958		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	1.59		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	48.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	585		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	6010		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	0.51		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	523		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	74.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.402		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	214		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	1.75		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	102		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	97.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	15.1		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	96.0		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-85 BH22-22 SS06							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	05-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-85 BH22-22 SS06							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	122.7		70-130	%	05-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	112.3		70-130	%	05-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	121.4		70-130	%	05-NOV-22	10-NOV-22	R5891876
L2739445-86 BH22-22 SS08							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	17.4		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	8380		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	0.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	3.24		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	60.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	0.31		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	12.8		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.124		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058
Calcium (Ca)	109000		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	17.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Cobalt (Co)	5.04		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	11.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	11000		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lead (Pb)	4.91		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	11.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	60100		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	338		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	0.34		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	14.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	386		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	1670		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	361		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Strontium (Sr)	51.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.126		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	343		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	0.654		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-86 BH22-22 SS08							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Vanadium (V)	27.0		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	25.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	9.2		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
2-Methylnaphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acenaphthylene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Acridine	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Anthracene	<0.0040		0.0040	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)anthracene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(a)pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Benzo(k)fluoranthene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Chrysene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluoroanthene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Fluorene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	10-NOV-22	16-NOV-22	R5892283
Naphthalene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Phenanthrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Pyrene	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
Quinoline	<0.0050		0.0050	ug/g	10-NOV-22	16-NOV-22	R5892283
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	10-NOV-22	16-NOV-22	R5892283
IACR (CCME)	<0.15		0.15		10-NOV-22	16-NOV-22	R5892283
Surrogate: 2-Fluorobiphenyl	90.1		60-140	%	10-NOV-22	16-NOV-22	R5892283
Surrogate: d14-Terphenyl	88.0		60-140	%	10-NOV-22	16-NOV-22	R5892283
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	109.7		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	
F2-Naphth	<25		25	mg/kg		16-NOV-22	
F3-PAH	<50		50	mg/kg		16-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-86 BH22-22 SS08							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	05-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-86 BH22-22 SS08							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	114.8		70-130	%	05-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	119.5		70-130	%	05-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	119.8		70-130	%	05-NOV-22	10-NOV-22	R5891876
L2739445-87 BH22-21 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	27.2		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	36200		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	0.30		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	7.39		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	207		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	1.24		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	0.27		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	22.4		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.297		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058
Calcium (Ca)	11300		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	51.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Cobalt (Co)	15.5		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	29.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	32500		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lead (Pb)	13.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	32.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	16300		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	864		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	0.26		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	43.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	404		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	5680		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	0.14		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	740		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Strontium (Sr)	71.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.334		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	155		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	1.14		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Vanadium (V)	98.8		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	102		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	10.4		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
2-Methylnaphthalene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-87 BH22-21 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Acenaphthene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
Acenaphthylene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
Acridine	<0.010		0.010	ug/g	16-NOV-22	21-NOV-22	R5892936
Anthracene	<0.0040		0.0040	ug/g	16-NOV-22	21-NOV-22	R5892936
Benzo(a)anthracene	<0.010		0.010	ug/g	16-NOV-22	21-NOV-22	R5892936
Benzo(a)pyrene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	16-NOV-22	21-NOV-22	R5892936
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	16-NOV-22	21-NOV-22	R5892936
Benzo(k)fluoranthene	<0.010		0.010	ug/g	16-NOV-22	21-NOV-22	R5892936
Chrysene	<0.010		0.010	ug/g	16-NOV-22	21-NOV-22	R5892936
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
Fluoroanthene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
Fluorene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	16-NOV-22	21-NOV-22	R5892936
Naphthalene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
Phenanthrene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
Pyrene	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
Quinoline	<0.0050		0.0050	ug/g	16-NOV-22	21-NOV-22	R5892936
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	16-NOV-22	21-NOV-22	R5892936
IACR (CCME)	<0.15		0.15		16-NOV-22	21-NOV-22	R5892936
Surrogate: 2-Fluorobiphenyl	85.8		60-140	%	16-NOV-22	21-NOV-22	R5892936
Surrogate: d14-Terphenyl	85.3		60-140	%	16-NOV-22	21-NOV-22	R5892936
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	100.8		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		21-NOV-22	
F2-Naphth	<25		25	mg/kg		21-NOV-22	
F3-PAH	<50		50	mg/kg		21-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		21-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-87 BH22-21 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Chloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	05-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MTBE	<0.20		0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	108.9		70-130	%	05-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-87 BH22-21 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Surrogate: 3,4-Dichlorotoluene (SS)	94.8		70-130	%	05-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	114.9		70-130	%	05-NOV-22	10-NOV-22	R5891876
L2739445-88 BH22-21 SS03							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	16.7		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	4730		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	1.98		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	34.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	0.19		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	12.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.078		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	126000		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	12.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	2.73		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	6.65		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	7080		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	2.87		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	8.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	70500		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	196		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.25		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	8.19		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	347		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	960		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	324		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	50.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.068		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	301		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	0.714		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	17.7		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	12.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	7.4		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	114.1		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		16-NOV-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-88 BH22-21 SS03							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
CCME Total Hydrocarbons							
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		16-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		15-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	10-NOV-22	R5891876
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Chloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Ethylbenzene	<0.015		0.015	mg/kg	05-NOV-22	10-NOV-22	R5891876
F1	<10		10	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Hexane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5891876
MEK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876
MIBK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5891876

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-88 BH22-21 SS03							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
MTBE	<0.20		0.20	mg/kg	05-NOV-22	10-NOV-22	R5891876
Styrene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Toluene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichloroethene	<0.010		0.010	mg/kg	05-NOV-22	10-NOV-22	R5891876
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
M+P-Xylenes	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5891876
Surrogate: 1,4-Difluorobenzene (SS)	120.8		70-130	%	05-NOV-22	10-NOV-22	R5891876
Surrogate: 3,4-Dichlorotoluene (SS)	110.2		70-130	%	05-NOV-22	10-NOV-22	R5891876
Surrogate: 4-Bromofluorobenzene (SS)	118.7		70-130	%	05-NOV-22	10-NOV-22	R5891876
L2739445-89 BH22-18 SS01							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	25.9		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	21500		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.83		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	7.80		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	199		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	0.91		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.42		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	17.0		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.606		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	49700		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	62.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	12.0		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	54.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	25400		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	36.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	26.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	29700		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	460		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	1.14		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	38.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	888		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	4000		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.27		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	1.12		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	280		50	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-89 BH22-18 SS01							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Strontium (Sr)	67.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.293		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	3.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	180		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.50		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	63.2		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	123		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	11.7		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	119		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	55		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	95.8		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	174		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	11-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,4-Dichlorobenzene	0.100		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-89 BH22-18 SS01							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	05-NOV-22	11-NOV-22	R5892567
F1	<10		10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	05-NOV-22	11-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	05-NOV-22	11-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	118.8		70-130	%	05-NOV-22	11-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	110.9		70-130	%	05-NOV-22	11-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	116.8		70-130	%	05-NOV-22	11-NOV-22	R5892567
L2739445-90 BH22-18 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	27.0		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	34400		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.41		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	9.38		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	195		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	1.32		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.35		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-90 BH22-18 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Boron (B)	17.9		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.749		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	11400		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	79.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	15.3		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	39.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	35200		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	23.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	29.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	15900		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	443		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.46		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	45.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	692		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	5380		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.89		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	779		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	53.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.340		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	3.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	152		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	1.06		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	96.6		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	139		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	9.9		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
2-Methylnaphthalene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acenaphthene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acenaphthylene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acridine	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Anthracene	<0.0040		0.0040	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(a)anthracene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(a)pyrene	0.0104		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(b&j)fluoranthene	0.011		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(g,h,i)perylene	0.012		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(k)fluoranthene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Chrysene	0.014	AI	0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Fluoroanthene	0.0088		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Fluorene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Naphthalene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Phenanthrene	0.0083		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Pyrene	0.0121		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Quinoline	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	16-NOV-22	16-NOV-22	R5892936
IACR (CCME)	0.17		0.15		16-NOV-22	16-NOV-22	R5892936

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-90 BH22-18 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
PAHs in Sediment							
Surrogate: 2-Fluorobiphenyl	80.6		60-140	%	16-NOV-22	16-NOV-22	R5892936
Surrogate: d14-Terphenyl	81.6		60-140	%	16-NOV-22	16-NOV-22	R5892936
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	169		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	58		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	111.8		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		21-NOV-22	
F2-Naphth	<25		25	mg/kg		21-NOV-22	
F3-PAH	169		50	mg/kg		21-NOV-22	
Total Hydrocarbons (C6-C50)	227		76	mg/kg		21-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	11-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-90 BH22-18 SS02							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	05-NOV-22	11-NOV-22	R5892567
F1	<10		10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	05-NOV-22	11-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	05-NOV-22	11-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	109.3		70-130	%	05-NOV-22	11-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	90.8		70-130	%	05-NOV-22	11-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	92.0		70-130	%	05-NOV-22	11-NOV-22	R5892567
L2739445-91 BH22-18 SS03							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	16.6		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	6610		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	2.56		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	55.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	0.27		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	15.0		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.105		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	123000		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	16.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	3.66		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	8.87		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-91 BH22-18 SS03							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Iron (Fe)	9250		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	4.19		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	11.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	71800		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	228		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	0.27		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	10.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	335		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	1150		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	404		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	57.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.098		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	345		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	0.738		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	22.1		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	18.2		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	9.3		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	116.8		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-91 BH22-18 SS03							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	05-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	05-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	05-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	05-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	05-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	123.9		70-130	%	05-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	117.4		70-130	%	05-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	116.2		70-130	%	05-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-92 BH22-18 SS06							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	26.2		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	36200		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.69		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	9.73		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	266		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	1.38		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.61		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	21.0		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	1.17		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	17300		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	144		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	17.1		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	57.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	34700		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	49.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	32.5		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	17700		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	621		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.57		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	49.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	1070		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	5470		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	0.24		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	2.37		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	817		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	65.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.396		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	7.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	163		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Uranium (U)	1.71		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	101		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	218		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	8.2		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	109.9		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-92 BH22-18 SS06							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	11-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloromethane	0.053	EMPC	0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	05-NOV-22	11-NOV-22	R5892567
F1	<10		10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	05-NOV-22	11-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-92 BH22-18 SS06							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	05-NOV-22	11-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	126.5		70-130	%	05-NOV-22	11-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	96.9		70-130	%	05-NOV-22	11-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	104.8		70-130	%	05-NOV-22	11-NOV-22	R5892567
L2739445-93 BH22-25 SS05							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	39.6		0.10	%		14-NOV-22	R5891576
F4G-SG	7900		500	mg/kg		18-NOV-22	R5894231
Metals in Soil by CRC ICPMS							
Aluminum (Al)	22000	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Antimony (Sb)	7.95	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Arsenic (As)	14.9	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Barium (Ba)	714	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Beryllium (Be)	0.67	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Bismuth (Bi)	7.32	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Boron (B)	22	DLHC	10	ug/g	23-NOV-22	23-NOV-22	R5896677
Cadmium (Cd)	21.5	DLHC	0.040	ug/g	23-NOV-22	23-NOV-22	R5896677
Calcium (Ca)	57400	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Chromium (Cr)	1550	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Cobalt (Co)	8.00	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Copper (Cu)	511	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Iron (Fe)	18200	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Lead (Pb)	675	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Lithium (Li)	14.4	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Magnesium (Mg)	26900	DLHC	40	ug/g	23-NOV-22	23-NOV-22	R5896677
Manganese (Mn)	365	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Molybdenum (Mo)	4.13	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Nickel (Ni)	92.5	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Phosphorus (P)	13000	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Potassium (K)	1830	DLHC	200	ug/g	23-NOV-22	23-NOV-22	R5896677
Selenium (Se)	2.00	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Silver (Ag)	45.7	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Sodium (Na)	1350	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Strontium (Sr)	186	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Sulfur (S)	9100	DLHC	2000	ug/g	23-NOV-22	23-NOV-22	R5896677
Thallium (Tl)	0.49	DLHC	0.10	ug/g	23-NOV-22	23-NOV-22	R5896677
Tin (Sn)	116	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Titanium (Ti)	198	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Tungsten (W)	9.5	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-93 BH22-25 SS05							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Uranium (U)	5.60	DLHC	0.10	ug/g	23-NOV-22	23-NOV-22	R5896677
Vanadium (V)	44.6	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Zinc (Zn)	1710	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Zirconium (Zr)	<2.0	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	499		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	6380		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	2250		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	106.2		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	NO				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		18-NOV-22	
Total Hydrocarbons (C6-C50)	9130		76	mg/kg		18-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	0.87	EMPC	0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	05-NOV-22	11-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Chloromethane	0.059		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichlorobenzene	0.112		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,4-Dichlorobenzene	0.344		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	05-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-93 BH22-25 SS05							
Sampled By: CLIENT on 05-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1-Dichloropropene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Ethylbenzene	0.019		0.015	mg/kg	05-NOV-22	11-NOV-22	R5892567
F1	<10		10	mg/kg	05-NOV-22	11-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	05-NOV-22	11-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	05-NOV-22	11-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	05-NOV-22	11-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.20	DLCI	0.20	mg/kg	05-NOV-22	11-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Toluene	0.070		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Trichloroethene	0.029		0.010	mg/kg	05-NOV-22	11-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,3-Trichloropropane	<0.3	DLCI	0.30	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,2,4-Trimethylbenzene	0.101		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
M+P-Xylenes	0.067		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	05-NOV-22	11-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	124.5		70-130	%	05-NOV-22	11-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	95.3		70-130	%	05-NOV-22	11-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	125.1		70-130	%	05-NOV-22	11-NOV-22	R5892567
L2739445-94 BH22-15 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	26400		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	0.59		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	9.44		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	231		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	1.04		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	0.40		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	19.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.540		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058
Calcium (Ca)	61600		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	62.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Cobalt (Co)	13.5		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	44.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	28900		50	ug/g	22-NOV-22	22-NOV-22	R5896058

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-94 BH22-15 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Lead (Pb)	26.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	30.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	33100		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	570		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	1.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	41.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	3030		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	4920		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	0.39		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	0.79		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	461		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Strontium (Sr)	81.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.318		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	2.2		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	224		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	1.69		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Vanadium (V)	78.1		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	120		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	9.9		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
L2739445-95 BH22-15 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	26.9		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	32100		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	1.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	8.66		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	234		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.18		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.73		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	23.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	1.69		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	46900		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	132		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	11.6		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	60.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Iron (Fe)	31500		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	62.7		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	34.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	22200		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	481		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	0.63		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	43.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	1570		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	4370		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.25		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	3.06		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	714		50	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-95 BH22-15 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Strontium (Sr)	80.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	1300		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.351		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	8.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	277		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	1.61		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	85.8		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	264		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	7.0		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
PAHs in Sediment							
1-Methylnaphthalene	0.0219		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
2-Methylnaphthalene	0.0469		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acenaphthene	0.0118		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acenaphthylene	0.0069	AI	0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acridine	0.024		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Anthracene	0.0208		0.0040	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(a)anthracene	0.058		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(a)pyrene	0.0846		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(b&j)fluoranthene	0.085		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(g,h,i)perylene	0.061		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(k)fluoranthene	0.034		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Chrysene	0.076		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Dibenz(a,h)anthracene	0.0141		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Fluoroanthene	0.110		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Fluorene	0.0162		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Indeno(1,2,3-cd)pyrene	0.043		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Naphthalene	0.0187		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Phenanthrene	0.106		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Pyrene	0.122		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Quinoline	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
B(a)P Total Potency Equivalent	0.122		0.020	ug/g	16-NOV-22	16-NOV-22	R5892936
IACR (CCME)	1.27		0.15		16-NOV-22	16-NOV-22	R5892936
Surrogate: 2-Fluorobiphenyl	88.2		60-140	%	16-NOV-22	16-NOV-22	R5892936
Surrogate: d14-Terphenyl	90.9		60-140	%	16-NOV-22	16-NOV-22	R5892936
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	99.4		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		21-NOV-22	
F2-Naphth	<25		25	mg/kg		21-NOV-22	
F3-PAH	<50		50	mg/kg		21-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		21-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	0.076		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
Benzene	0.0065		0.0050	mg/kg	03-NOV-22	11-NOV-22	R5892567

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-95 BH22-15 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	11-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichlorobenzene	0.082		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,4-Dichlorobenzene	0.215		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
cis-1,2-Dichloroethene	0.065		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Ethylbenzene	0.025		0.015	mg/kg	03-NOV-22	11-NOV-22	R5892567
F1	<10		10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Toluene	0.172		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-95 BH22-15 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Trichloroethene	0.081		0.010	mg/kg	03-NOV-22	11-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,4-Trimethylbenzene	0.082		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
M+P-Xylenes	0.076		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	123.6		70-130	%	03-NOV-22	11-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	119.3		70-130	%	03-NOV-22	11-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	119.4		70-130	%	03-NOV-22	11-NOV-22	R5892567
L2739445-96 BH22-15 SS03							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	16.2		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	8160		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	2.82		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	60.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	0.28		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	12.1		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.121		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	94100		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	16.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	4.39		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	10.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	10300		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	4.53		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	11.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	55900		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	286		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.33		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	13.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	434		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	1520		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	459		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	43.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.119		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	354		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-96 BH22-15 SS03							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Uranium (U)	0.719		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	26.0		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	23.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	8.9		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	118.1		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-96 BH22-15 SS03							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	03-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	126.0		70-130	%	03-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	108.1		70-130	%	03-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	123.5		70-130	%	03-NOV-22	10-NOV-22	R5892567
L2739445-97 BH22-15 SS04							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	32.7		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	34200		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Antimony (Sb)	0.48		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Arsenic (As)	8.84		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Barium (Ba)	327		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Beryllium (Be)	1.18		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Bismuth (Bi)	0.33		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Boron (B)	23.9		5.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Cadmium (Cd)	0.264		0.020	ug/g	22-NOV-22	22-NOV-22	R5895877
Calcium (Ca)	14500		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Chromium (Cr)	72.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Cobalt (Co)	20.9		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Copper (Cu)	46.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-97 BH22-15 SS04							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Iron (Fe)	40100		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lead (Pb)	16.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Lithium (Li)	51.3		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Magnesium (Mg)	17400		20	ug/g	22-NOV-22	22-NOV-22	R5895877
Manganese (Mn)	689		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Molybdenum (Mo)	1.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Nickel (Ni)	60.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Phosphorus (P)	740		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Potassium (K)	7310		100	ug/g	22-NOV-22	22-NOV-22	R5895877
Selenium (Se)	0.23		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Silver (Ag)	0.21		0.10	ug/g	22-NOV-22	22-NOV-22	R5895877
Sodium (Na)	1080		50	ug/g	22-NOV-22	22-NOV-22	R5895877
Strontium (Sr)	91.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895877
Thallium (Tl)	0.476		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Titanium (Ti)	839		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895877
Uranium (U)	2.11		0.050	ug/g	22-NOV-22	22-NOV-22	R5895877
Vanadium (V)	97.2		0.20	ug/g	22-NOV-22	22-NOV-22	R5895877
Zinc (Zn)	109		2.0	ug/g	22-NOV-22	22-NOV-22	R5895877
Zirconium (Zr)	27.7		1.0	ug/g	22-NOV-22	22-NOV-22	R5895877
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	110.6		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-97 BH22-15 SS04							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	03-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	128.8		70-130	%	03-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	107.8		70-130	%	03-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	113.7		70-130	%	03-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-98 BH22-15 SS06							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	18.2		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	6610		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	2.34		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	52.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	0.22		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	14.4		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.092		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058
Calcium (Ca)	147000		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	15.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Cobalt (Co)	3.32		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	7.39		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	8750		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lead (Pb)	3.55		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	9.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	81400		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	250		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	0.22		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	10.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	415		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	1250		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	400		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Strontium (Sr)	55.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.085		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	414		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	0.689		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Vanadium (V)	21.8		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	16.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	9.3		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	113.3		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-98 BH22-15 SS06							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	03-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-98 BH22-15 SS06							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	117.3		70-130	%	03-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	99.9		70-130	%	03-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	99.7		70-130	%	03-NOV-22	10-NOV-22	R5892567
L2739445-99 MW22-03 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	40.6		0.10	%		14-NOV-22	R5891576
F4G-SG	8310		500	mg/kg		18-NOV-22	R5894231
Metals in Soil by CRC ICPMS							
Aluminum (Al)	24900	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Antimony (Sb)	8.40	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Arsenic (As)	18.6	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Barium (Ba)	732	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Beryllium (Be)	0.75	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Bismuth (Bi)	8.67	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Boron (B)	25	DLHC	10	ug/g	23-NOV-22	23-NOV-22	R5896677
Cadmium (Cd)	22.2	DLHC	0.040	ug/g	23-NOV-22	23-NOV-22	R5896677
Calcium (Ca)	52700	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Chromium (Cr)	1910	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Cobalt (Co)	7.97	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Copper (Cu)	551	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Iron (Fe)	15300	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Lead (Pb)	677	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Lithium (Li)	16.6	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Magnesium (Mg)	22000	DLHC	40	ug/g	23-NOV-22	23-NOV-22	R5896677
Manganese (Mn)	273	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Molybdenum (Mo)	5.18	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Nickel (Ni)	107	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Phosphorus (P)	15600	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Potassium (K)	1820	DLHC	200	ug/g	23-NOV-22	23-NOV-22	R5896677
Selenium (Se)	2.34	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Silver (Ag)	56.4	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Sodium (Na)	2230	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Strontium (Sr)	233	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Sulfur (S)	12400	DLHC	2000	ug/g	23-NOV-22	23-NOV-22	R5896677
Thallium (Tl)	0.49	DLHC	0.10	ug/g	23-NOV-22	23-NOV-22	R5896677
Tin (Sn)	125	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Titanium (Ti)	191	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Tungsten (W)	10.8	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-99 MW22-03 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Uranium (U)	12.5	DLHC	0.10	ug/g	23-NOV-22	23-NOV-22	R5896677
Vanadium (V)	46.8	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Zinc (Zn)	1710	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Zirconium (Zr)	<2.0	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
2-Methylnaphthalene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acenaphthene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acenaphthylene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acridine	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Anthracene	<0.0040		0.0040	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(a)anthracene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(a)pyrene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(k)fluoranthene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Chrysene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Fluoroanthene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Fluorene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Naphthalene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Phenanthrene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Pyrene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Quinoline	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	16-NOV-22	16-NOV-22	R5892936
IACR (CCME)	<0.15		0.15		16-NOV-22	16-NOV-22	R5892936
Surrogate: 2-Fluorobiphenyl	83.7		60-140	%	16-NOV-22	16-NOV-22	R5892936
Surrogate: d14-Terphenyl	86.5		60-140	%	16-NOV-22	16-NOV-22	R5892936
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	257		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	6830		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	2680		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	106.5		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	NO				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		21-NOV-22	
F2-Naphth	257		25	mg/kg		21-NOV-22	
F3-PAH	6830		50	mg/kg		21-NOV-22	
Total Hydrocarbons (C6-C50)	9780		76	mg/kg		21-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-99 MW22-03 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	11-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,4-Dichlorobenzene	0.180		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	11-NOV-22	R5892567
F1	<10		10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	11-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-99 MW22-03 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	121.9		70-130	%	03-NOV-22	11-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	100.5		70-130	%	03-NOV-22	11-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	109.0		70-130	%	03-NOV-22	11-NOV-22	R5892567
L2739445-100 MW22-03 SS03							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	35.2		0.10	%		14-NOV-22	R5891576
F4G-SG	7340		500	mg/kg		18-NOV-22	R5894231
Metals in Soil by CRC ICPMS							
Aluminum (Al)	24500	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Antimony (Sb)	5.21	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Arsenic (As)	14.2	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Barium (Ba)	469	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Beryllium (Be)	0.81	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Bismuth (Bi)	4.34	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Boron (B)	23	DLHC	10	ug/g	23-NOV-22	23-NOV-22	R5896677
Cadmium (Cd)	12.2	DLHC	0.040	ug/g	23-NOV-22	23-NOV-22	R5896677
Calcium (Ca)	59700	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Chromium (Cr)	959	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Cobalt (Co)	9.30	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Copper (Cu)	293	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Iron (Fe)	21100	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Lead (Pb)	371	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Lithium (Li)	23.0	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Magnesium (Mg)	27100	DLHC	40	ug/g	23-NOV-22	23-NOV-22	R5896677
Manganese (Mn)	357	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Molybdenum (Mo)	2.81	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Nickel (Ni)	73.3	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Phosphorus (P)	8060	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Potassium (K)	2770	DLHC	200	ug/g	23-NOV-22	23-NOV-22	R5896677
Selenium (Se)	1.16	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Silver (Ag)	26.6	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Sodium (Na)	1510	DLHC	100	ug/g	23-NOV-22	23-NOV-22	R5896677
Strontium (Sr)	154	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Sulfur (S)	6600	DLHC	2000	ug/g	23-NOV-22	23-NOV-22	R5896677
Thallium (Tl)	0.42	DLHC	0.10	ug/g	23-NOV-22	23-NOV-22	R5896677
Tin (Sn)	61.8	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Titanium (Ti)	180	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Tungsten (W)	4.4	DLHC	1.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Uranium (U)	9.47	DLHC	0.10	ug/g	23-NOV-22	23-NOV-22	R5896677
Vanadium (V)	58.1	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Zinc (Zn)	964	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Zirconium (Zr)	<2.0	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
VOC plus F1-F4 by Tumbler							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-100 MW22-03 SS03							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	257		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	5880		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	2200		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	108.4		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	NO				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		18-NOV-22	
Total Hydrocarbons (C6-C50)	8340		76	mg/kg		18-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	11-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	11-NOV-22	R5892567
F1	<10		10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-100 MW22-03 SS03							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Hexane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	11-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	114.7		70-130	%	03-NOV-22	11-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	104.9		70-130	%	03-NOV-22	11-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	103.4		70-130	%	03-NOV-22	11-NOV-22	R5892567
L2739445-101 MW22-03 SS05							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	22.2		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	41600		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.26		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	8.97		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	222		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.12		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.36		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	18.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.313		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	34900		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	91.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	24.6		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	57.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	50800		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	17.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	81.5		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	23700		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	824		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.62		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-101 MW22-03 SS05							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Nickel (Ni)	74.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	919		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	10500		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.20		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	2730		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	105		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	20000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.669		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	1810		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	4.04		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	105		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	142		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	38.1		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	104.0		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-101 MW22-03 SS05							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	03-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	110.2		70-130	%	03-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	105.7		70-130	%	03-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	100.0		70-130	%	03-NOV-22	10-NOV-22	R5892567
L2739445-102 MW22-03 SS06							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	46.5		0.10	%		14-NOV-22	R5891576
F4G-SG	12700		500	mg/kg		18-NOV-22	R5894231

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-102 MW22-03 SS06							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	24200	DLHC	200	ug/g	23-NOV-22	23-NOV-22	R5896677
Antimony (Sb)	5.05	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Arsenic (As)	13.6	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Barium (Ba)	577	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Beryllium (Be)	0.86	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Bismuth (Bi)	5.00	DLHC	0.80	ug/g	23-NOV-22	23-NOV-22	R5896677
Boron (B)	26	DLHC	20	ug/g	23-NOV-22	23-NOV-22	R5896677
Cadmium (Cd)	14.0	DLHC	0.080	ug/g	23-NOV-22	23-NOV-22	R5896677
Calcium (Ca)	57600	DLHC	200	ug/g	23-NOV-22	23-NOV-22	R5896677
Chromium (Cr)	1120	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Cobalt (Co)	10.7	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Copper (Cu)	339	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Iron (Fe)	21500	DLHC	200	ug/g	23-NOV-22	23-NOV-22	R5896677
Lead (Pb)	426	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Lithium (Li)	24.0	DLHC	8.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Magnesium (Mg)	26500	DLHC	80	ug/g	23-NOV-22	23-NOV-22	R5896677
Manganese (Mn)	384	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Molybdenum (Mo)	3.11	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Nickel (Ni)	78.7	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Phosphorus (P)	9180	DLHC	200	ug/g	23-NOV-22	23-NOV-22	R5896677
Potassium (K)	2760	DLHC	400	ug/g	23-NOV-22	23-NOV-22	R5896677
Selenium (Se)	1.24	DLHC	0.80	ug/g	23-NOV-22	23-NOV-22	R5896677
Silver (Ag)	32.4	DLHC	0.40	ug/g	23-NOV-22	23-NOV-22	R5896677
Sodium (Na)	1650	DLHC	200	ug/g	23-NOV-22	23-NOV-22	R5896677
Strontium (Sr)	177	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Sulfur (S)	7500	DLHC	4000	ug/g	23-NOV-22	23-NOV-22	R5896677
Thallium (Tl)	0.43	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Tin (Sn)	71.3	DLHC	8.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Titanium (Ti)	231	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Tungsten (W)	5.4	DLHC	2.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Uranium (U)	9.33	DLHC	0.20	ug/g	23-NOV-22	23-NOV-22	R5896677
Vanadium (V)	63.5	DLHC	0.80	ug/g	23-NOV-22	23-NOV-22	R5896677
Zinc (Zn)	1110	DLHC	8.0	ug/g	23-NOV-22	23-NOV-22	R5896677
Zirconium (Zr)	<4.0	DLHC	4.0	ug/g	23-NOV-22	23-NOV-22	R5896677
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	383		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	11800		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	4610		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	95.5		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	NO				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		18-NOV-22	
Total Hydrocarbons (C6-C50)	16800		76	mg/kg		18-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	0.88		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-102 MW22-03 SS06							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	11-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,4-Dichlorobenzene	0.092		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	11-NOV-22	R5892567
F1	<10		10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-102 MW22-03 SS06							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	11-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	118.8		70-130	%	03-NOV-22	11-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	98.0		70-130	%	03-NOV-22	11-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	105.4		70-130	%	03-NOV-22	11-NOV-22	R5892567
L2739445-103 BH22-25 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Aluminum (Al)	20900		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.37		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	5.46		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	177		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	0.80		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.30		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	19.6		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.275		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	99900		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	41.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	8.87		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	29.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	22400		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	15.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	24.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	56100		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	376		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.42		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	30.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	560		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	3520		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.25		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	738		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	80.0		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	1000		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.258		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	289		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	1.62		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	59.5		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	64.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	13.7		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-103 BH22-25 SS01							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
L2739445-104 BH22-25 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	25.1		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	29400		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	0.45		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	8.59		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	342		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.19		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.32		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	22.0		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	0.288		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	63000		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	50.9		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	13.8		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	31.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	31000		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	15.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	33.7		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	35800		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	681		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	0.70		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	41.5		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	570		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	4850		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	0.21		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	0.18		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	960		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	85.3		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	1800		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.351		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	263		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	1.70		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	87.4		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	86.9		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	15.4		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	102.5		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-104 BH22-25 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Acetone	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Carbon disulfide	<0.25		0.25	mg/kg	03-NOV-22	10-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,4-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Ethylbenzene	<0.015		0.015	mg/kg	03-NOV-22	10-NOV-22	R5892567
F1	<10		10	mg/kg	03-NOV-22	10-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	10-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	03-NOV-22	10-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	03-NOV-22	10-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-104 BH22-25 SS02							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Toluene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Trichloroethene	<0.010		0.010	mg/kg	03-NOV-22	10-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,2,4-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
M+P-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	10-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	121.4		70-130	%	03-NOV-22	10-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	110.8		70-130	%	03-NOV-22	10-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	124.9		70-130	%	03-NOV-22	10-NOV-22	R5892567
L2739445-105 BH22-25 SS03							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Miscellaneous Parameters							
Moisture	32.7		0.10	%		14-NOV-22	R5891576
F4G-SG	5650		500	mg/kg		18-NOV-22	R5894231
Metals in Soil by CRC ICPMS							
Aluminum (Al)	36500		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Antimony (Sb)	1.12		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Arsenic (As)	9.51		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Barium (Ba)	322		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Beryllium (Be)	1.32		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Bismuth (Bi)	0.78		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Boron (B)	26.7		5.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Cadmium (Cd)	1.39		0.020	ug/g	22-NOV-22	22-NOV-22	R5895897
Calcium (Ca)	61500		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Chromium (Cr)	119		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Cobalt (Co)	13.5		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Copper (Cu)	59.8		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Iron (Fe)	36800		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lead (Pb)	69.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Lithium (Li)	41.6		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Magnesium (Mg)	31400		20	ug/g	22-NOV-22	22-NOV-22	R5895897
Manganese (Mn)	454		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Molybdenum (Mo)	1.22		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Nickel (Ni)	49.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Phosphorus (P)	1400		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Potassium (K)	5520		100	ug/g	22-NOV-22	22-NOV-22	R5895897
Selenium (Se)	0.31		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Silver (Ag)	2.13		0.10	ug/g	22-NOV-22	22-NOV-22	R5895897
Sodium (Na)	997		50	ug/g	22-NOV-22	22-NOV-22	R5895897
Strontium (Sr)	117		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Sulfur (S)	1400		1000	ug/g	22-NOV-22	22-NOV-22	R5895897
Thallium (Tl)	0.412		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-105 BH22-25 SS03							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Tin (Sn)	7.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Titanium (Ti)	253		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5895897
Uranium (U)	2.27		0.050	ug/g	22-NOV-22	22-NOV-22	R5895897
Vanadium (V)	102		0.20	ug/g	22-NOV-22	22-NOV-22	R5895897
Zinc (Zn)	187		2.0	ug/g	22-NOV-22	22-NOV-22	R5895897
Zirconium (Zr)	10.8		1.0	ug/g	22-NOV-22	22-NOV-22	R5895897
PAHs in Sediment							
1-Methylnaphthalene	0.0374		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
2-Methylnaphthalene	0.0804		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acenaphthene	0.0223		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acenaphthylene	0.0158		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acridine	0.109		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Anthracene	0.0476		0.0040	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(a)anthracene	0.113		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(a)pyrene	0.136	R	0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(b&j)fluoranthene	0.157	R	0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(g,h,i)perylene	0.081	R	0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(k)fluoranthene	0.050	R	0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Chrysene	0.157		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Dibenz(a,h)anthracene	0.0203		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Fluoroanthene	0.188		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Fluorene	0.0240		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Indeno(1,2,3-cd)pyrene	0.069		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Naphthalene	0.0484	R	0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Phenanthrene	0.185		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Pyrene	0.350		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Quinoline	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
B(a)P Total Potency Equivalent	0.197		0.020	ug/g	16-NOV-22	16-NOV-22	R5892936
IACR (CCME)	2.20		0.15		16-NOV-22	16-NOV-22	R5892936
Surrogate: 2-Fluorobiphenyl	89.3		60-140	%	16-NOV-22	16-NOV-22	R5892936
Surrogate: d14-Terphenyl	96.6		60-140	%	16-NOV-22	16-NOV-22	R5892936
VOC plus F1-F4 by Tumbler							
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	249		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	4320		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	1560		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	94.4		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	NO				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		21-NOV-22	
F2-Naphth	249		25	mg/kg		21-NOV-22	
F3-PAH	4320		50	mg/kg		21-NOV-22	
Total Hydrocarbons (C6-C50)	6130		76	mg/kg		21-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	1.22	EMPC	0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromobenzene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromochloromethane	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromodichloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-105 BH22-25 SS03							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
Bromoform	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Bromomethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
n-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
sec-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
tert-Butylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Carbon disulfide	0.38		0.25	mg/kg	03-NOV-22	11-NOV-22	R5892567
Carbon Tetrachloride	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloroform	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Chloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
4-Chlorotoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dibromochloromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dibromo-3-chloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dibromoethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dibromomethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichlorobenzene	0.085		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3-Dichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,4-Dichlorobenzene	0.332		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dichlorodifluoromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
cis-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
trans-1,2-Dichloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Dichloromethane	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3-Dichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2,2-Dichloropropane	<0.20	DLM	0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1-Dichloropropene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
cis-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
trans-1,3-Dichloropropene	<0.10	DLM	0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Ethylbenzene	0.017		0.015	mg/kg	03-NOV-22	11-NOV-22	R5892567
F1	<10		10	mg/kg	03-NOV-22	11-NOV-22	R5892567
Hexachlorobutadiene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Hexane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
2-Hexanone (Methyl butyl ketone)	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
Isopropylbenzene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
4-Isopropyltoluene	<0.10		0.10	mg/kg	03-NOV-22	11-NOV-22	R5892567
MEK	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
MIBK	<0.50		0.50	mg/kg	03-NOV-22	11-NOV-22	R5892567
MTBE	<0.20		0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
Styrene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,1,2-Tetrachloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,2,2-Tetrachloroethane	<0.20	DLCI	0.20	mg/kg	03-NOV-22	11-NOV-22	R5892567
Tetrachloroethene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Toluene	0.071		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,3-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,4-Trichlorobenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,1,1-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-105 BH22-25 SS03							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
VOC plus F1 by GCMS							
1,1,2-Trichloroethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Trichloroethene	0.021		0.010	mg/kg	03-NOV-22	11-NOV-22	R5892567
Trichlorofluoromethane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,3-Trichloropropane	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,2,4-Trimethylbenzene	0.097		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
1,3,5-Trimethylbenzene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Vinyl Chloride	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
M+P-Xylenes	0.058		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	11-NOV-22	R5892567
Surrogate: 1,4-Difluorobenzene (SS)	125.0		70-130	%	03-NOV-22	11-NOV-22	R5892567
Surrogate: 3,4-Dichlorotoluene (SS)	119.3		70-130	%	03-NOV-22	11-NOV-22	R5892567
Surrogate: 4-Bromofluorobenzene (SS)	126.7		70-130	%	03-NOV-22	11-NOV-22	R5892567
L2739445-106 LAND FILL							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
BTEX and F1-F4 by Tumbler Method							
BTX plus F1 by GCMS							
Benzene	<0.0050		0.0050	mg/kg	03-NOV-22	09-NOV-22	R5890036
Toluene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5890036
Ethyl benzene	<0.015		0.015	mg/kg	03-NOV-22	09-NOV-22	R5890036
o-Xylene	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5890036
m+p-Xylenes	<0.050		0.050	mg/kg	03-NOV-22	09-NOV-22	R5890036
F1 (C6-C10)	<10		10	mg/kg	03-NOV-22	09-NOV-22	R5890036
Surrogate: 4-Bromofluorobenzene (SS)	122.6		70-130	%	03-NOV-22	09-NOV-22	R5890036
Surrogate: 3,4-Dichlorotoluene (SS)	120.8		70-130	%	03-NOV-22	09-NOV-22	R5890036
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	109.6		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		21-NOV-22	
F2-Naphth	<25		25	mg/kg		21-NOV-22	
F3-PAH	<50		50	mg/kg		21-NOV-22	
Total Hydrocarbons (C6-C50)	<76		76	mg/kg		21-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
Miscellaneous Parameters							
Moisture	15.3		0.10	%		14-NOV-22	R5891576
Mercury (Hg)	0.0165		0.0050	ug/g	22-NOV-22	23-NOV-22	R5896196
Phenols (4AAP)	<0.10		0.10	mg/kg	16-NOV-22	16-NOV-22	R5893347
Metals in Soil by CRC ICPMS							
Aluminum (Al)	9460		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Antimony (Sb)	0.12		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Arsenic (As)	2.87		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Barium (Ba)	108		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Beryllium (Be)	0.31		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Bismuth (Bi)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Boron (B)	13.8		5.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Cadmium (Cd)	0.119		0.020	ug/g	22-NOV-22	22-NOV-22	R5896058

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-106 LAND FILL							
Sampled By: CLIENT on 03-NOV-22							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Calcium (Ca)	107000		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Chromium (Cr)	20.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Cobalt (Co)	4.74		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Copper (Cu)	12.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Iron (Fe)	11700		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lead (Pb)	5.16		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Lithium (Li)	14.8		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Magnesium (Mg)	60900		20	ug/g	22-NOV-22	22-NOV-22	R5896058
Manganese (Mn)	263		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Molybdenum (Mo)	0.38		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Nickel (Ni)	14.6		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Phosphorus (P)	436		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Potassium (K)	1900		100	ug/g	22-NOV-22	22-NOV-22	R5896058
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Silver (Ag)	<0.10		0.10	ug/g	22-NOV-22	22-NOV-22	R5896058
Sodium (Na)	495		50	ug/g	22-NOV-22	22-NOV-22	R5896058
Strontium (Sr)	51.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896058
Thallium (Tl)	0.142		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Titanium (Ti)	498		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896058
Uranium (U)	0.968		0.050	ug/g	22-NOV-22	22-NOV-22	R5896058
Vanadium (V)	28.6		0.20	ug/g	22-NOV-22	22-NOV-22	R5896058
Zinc (Zn)	25.1		2.0	ug/g	22-NOV-22	22-NOV-22	R5896058
Zirconium (Zr)	11.0		1.0	ug/g	22-NOV-22	22-NOV-22	R5896058
PAHs in Sediment							
1-Methylnaphthalene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
2-Methylnaphthalene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acenaphthene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acenaphthylene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Acridine	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Anthracene	<0.0040		0.0040	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(a)anthracene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(a)pyrene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(b&j)fluoranthene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(g,h,i)perylene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Benzo(k)fluoranthene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Chrysene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Dibenz(a,h)anthracene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Fluoroanthene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Fluorene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Indeno(1,2,3-cd)pyrene	<0.010		0.010	ug/g	16-NOV-22	16-NOV-22	R5892936
Naphthalene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Phenanthrene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Pyrene	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
Quinoline	<0.0050		0.0050	ug/g	16-NOV-22	16-NOV-22	R5892936
B(a)P Total Potency Equivalent	<0.020		0.020	ug/g	16-NOV-22	16-NOV-22	R5892936
IACR (CCME)	<0.15		0.15		16-NOV-22	16-NOV-22	R5892936
Surrogate: 2-Fluorobiphenyl	86.5		60-140	%	16-NOV-22	16-NOV-22	R5892936
Surrogate: d14-Terphenyl	94.2		60-140	%	16-NOV-22	16-NOV-22	R5892936

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-107 BH22-21 SS04							
Sampled By: CLIENT							
Matrix: SOIL							
BTEX and F1-F2 by Tumbler Method							
BTX plus F1 by GCMS							
Benzene	<0.0050		0.0050	mg/kg	07-NOV-22	11-NOV-22	R5890036
Toluene	<0.050		0.050	mg/kg	07-NOV-22	11-NOV-22	R5890036
Ethyl benzene	<0.015		0.015	mg/kg	07-NOV-22	11-NOV-22	R5890036
o-Xylene	<0.050		0.050	mg/kg	07-NOV-22	11-NOV-22	R5890036
m+p-Xylenes	<0.050		0.050	mg/kg	07-NOV-22	11-NOV-22	R5890036
F1 (C6-C10)	<10		10	mg/kg	07-NOV-22	11-NOV-22	R5890036
Surrogate: 4-Bromofluorobenzene (SS)	94.2		70-130	%	07-NOV-22	11-NOV-22	R5890036
Surrogate: 3,4-Dichlorotoluene (SS)	111.5		70-130	%	07-NOV-22	11-NOV-22	R5890036
CCME Total Extractable Hydrocarbons							
F2 (C10-C16)	<25		25	mg/kg	15-NOV-22	15-NOV-22	R5890961
F3 (C16-C34)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
F4 (C34-C50)	<50		50	mg/kg	15-NOV-22	15-NOV-22	R5890961
Surrogate: 2-Bromobenzotrifluoride	113.8		60-140	%	15-NOV-22	15-NOV-22	R5890961
Chrom. to baseline at nC50	YES				15-NOV-22	15-NOV-22	R5890961
CCME Total Hydrocarbons							
F1-BTEX	<10		10	mg/kg		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.071		0.071	mg/kg		17-NOV-22	
Miscellaneous Parameters							
Moisture	27.5		0.10	%		14-NOV-22	R5891576
Metals in Soil by CRC ICPMS							
Aluminum (Al)	38500		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Antimony (Sb)	0.36		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Arsenic (As)	7.45		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Barium (Ba)	306		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Beryllium (Be)	1.30		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Bismuth (Bi)	0.25		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Boron (B)	28.1		5.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Cadmium (Cd)	0.507		0.020	ug/g	22-NOV-22	22-NOV-22	R5896057
Calcium (Ca)	43100		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Chromium (Cr)	57.4		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Cobalt (Co)	15.9		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Copper (Cu)	31.2		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Iron (Fe)	35400		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lead (Pb)	13.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Lithium (Li)	32.5		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Magnesium (Mg)	21700		20	ug/g	22-NOV-22	22-NOV-22	R5896057
Manganese (Mn)	944		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Molybdenum (Mo)	0.34		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Nickel (Ni)	46.1		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Phosphorus (P)	421		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Potassium (K)	5890		100	ug/g	22-NOV-22	22-NOV-22	R5896057
Selenium (Se)	<0.20		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Silver (Ag)	0.14		0.10	ug/g	22-NOV-22	22-NOV-22	R5896057
Sodium (Na)	829		50	ug/g	22-NOV-22	22-NOV-22	R5896057
Strontium (Sr)	160		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057
Sulfur (S)	<1000		1000	ug/g	22-NOV-22	22-NOV-22	R5896057
Thallium (Tl)	0.381		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Tin (Sn)	<2.0		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Titanium (Ti)	250		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Tungsten (W)	<0.50		0.50	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739445-107 BH22-21 SS04							
Sampled By: CLIENT							
Matrix: SOIL							
Metals in Soil by CRC ICPMS							
Uranium (U)	1.56		0.050	ug/g	22-NOV-22	22-NOV-22	R5896057
Vanadium (V)	113		0.20	ug/g	22-NOV-22	22-NOV-22	R5896057
Zinc (Zn)	105		2.0	ug/g	22-NOV-22	22-NOV-22	R5896057
Zirconium (Zr)	10.7		1.0	ug/g	22-NOV-22	22-NOV-22	R5896057

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
AI	Analytical interferences may be present. Result may be biased high.
DLCI	Detection Limit Raised: Chromatographic Interference due to co-elution.
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLIS	Detection Limit Adjusted: Insufficient Sample
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
EMPC	Estimated Maximum Possible Concentration. Parameter detected but didn't meet all criteria for positive identification.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
R	The ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.
SHMI	Surrogate recovery was outside ALS DQO (High) due to Matrix Interference.
SURR-ND	Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
BTEXS+F1-HSMS-WP	Soil	BTX plus F1 by GCMS	EPA 8260C

The soil methanol extract is added to water and reagents, then heated in a sealed vial to equilibrium. The headspace from the vial is transferred into a gas chromatograph. Target compound concentrations are measured using mass spectrometry detection.

CL-PASTE-COL-SK	Soil	Chloride (Cl) (Saturated Paste)	CSSS 15.2.1/ APHA 4500-Cl E

A soil extract is produced by the saturated paste extraction procedure. The extract is analyzed for Chloride by Colourimetry using a discrete analyzer.

F1-F4-CALC-WP	Soil	CCME Total Hydrocarbons	CCME CWS-PHC, Pub #1310, Dec 2001-S

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F2-F4-TMB-FID-WP	Soil	CCME Total Extractable Hydrocarbons	CCME CWS-PHC, Pub #1310, Dec 2001

A soil or sediment sample is extracted with 1:1 hexane/acetone in a tumbler, followed by a silica gel clean up to facilitate separation of the hydrocarbons from other polar extractions. An aliquot of the solvent is analyzed using a gas chromatograph equipped with a flame -ionization detector.

F4G-TMB-WP	Soil	CCME Gravimetric Heavy Hydrocarbons	CCME CWS-PHC, Pub #1310, Dec 2001-S

A soil or sediment sample is extracted with 1:1 hexane/acetone in a tumbler, followed by a silica gel clean up to facilitate separation of the hydrocarbons from other polar extractions. An aliquot of the solvent is analyzed using gravimetric method

HG-200.2-CVAA-WT	Soil	Mercury in Soil by CVAAS	EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
Protection Act (July 1, 2011).			
MET-200.2-CCMS-WT	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020B (mod)
Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.			
Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).			
MOISTURE-WP	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
Moisture content in solid matrices is determined gravimetrically after drying to constant weight at 105°C.			
PAH-CCME-SQGL-WT	Soil	PAHs in Sediment	SW846 8270
The procedure uses a mechanical shaking technique to extract a representative sub-sample with a mixture of methanol and toluene. The extract is analyzed by GC/MSD. Depending on the analytical GC/MS column used benzo(j)fluoranthene may chromatographically co-elute with benzo(b)fluoranthene or benzo(k)fluoranthene.			
PHENOLS-4AAP-WT	Soil	Phenol (4AAP)	EPA 9066
A manual method is used to distill the sample. The distillate is then buffered to pH 9.4 and reacts with 4AAP and alkaline ferricyanide to form a red complex which is measured colorimetrically.			
PSA-MUST-SK	Soil	% Particles > 75um (Coarse/Fine)	ASTM D6913
An air-dried sample is reduced to < 2 mm size and mixed with a dispersing agent (Calgon solution). The sample is washed through a 200 mesh (75 µm) sieve. The retained mass of sample is used to determine % sand fraction.			
Reference: ASTM D422-63			
SAL-MG/KG-CALC-SK	Soil	Detail Salinity in mg/kg	Manual Calculation
SALINITY-INTCHECK-SK	Soil		CSSS 18.4-Calculation
SAR-CALC-SO4-SK	Soil	SAR, Cations and SO4 in saturated soil	APHA 3120B
Ca, Mg, Na, K and SO4 in a saturated soil extract are determined by ICP-OES.			
SAT/PH/EC-SK	Soil	pH and EC (Saturated Paste)	CSSS 15/CSSC 3.14
A saturated paste is generated by adding water to soil with mixing until the following criteria are met: The sample paste glistens as it reflects light. The sample flows slightly when container is tipped, and slides freely and cleanly off the spatula. A trench carved in the soil surface will close readily upon jarring the container. There should be no free layer of water on top of the sample. An aliquot of the sample is obtained, dried at 105C and saturation percentage is determined.pH of a saturated soil paste is measured using a pH meter. The EC is measured using a conductivity meter on the filtered extract.			
TGR2-CALC-SK	Soil	Theoretical Gypsum Requirement	J. Ashworth et al (1999)
Theoretical Gypsum Requirement is an estimate of the gypsum amendment required to remediate brine-contaminated or sodic soils, and is provided in units of tonnes per hectare (t/ha) for a treatment depth of 15cm. TGR(brine), intended for brine-contaminated soils, is calculated using Method A from "A Comparison of Methods for Gypsum Requirement of Brine-Contaminated Soils", by J. Ashworth (Cdn J. of Soil Science, 1999), available at www.alsglobal.com. TGR(sodic), intended for naturally sodic soils, uses the Oster and Frenkel method (Method B) from the same paper. Reported TGR values are capped at 50 t/ha, considered the maximum practical gypsum amendment. To convert TGR from t/ha to tons/acre, multiply by 0.446. To determine a TGR value for an alternate treatment depth, multiply by [desired treatment depth (cm) / 15 cm].			
VOC+F1-HSMS-WP	Soil	VOC plus F1 by GCMS	EPA 8260C
The soil methanol extract is added to water and reagents, then heated in a sealed vial to equilibrium. The headspace from the vial is transferred into a gas chromatograph. Target compound concentrations are measured using mass spectrometry detection.			
XYLENES-SUM-CALC-WP	Soil	Sum of Xylene Isomer Concentrations	CALCULATED RESULT
Total xylenes represents the sum of o-xylene and m&p-xylene.			

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
SK	ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA
WP	ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2739445 Report Date: 19-JAN-23

Client: AECOM Canada Ltd.
99 Commerce Drive
Winnipeg MB R3P 0Y7
Contact: JEN MURRAY

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTEXS+F1-HSMS-WP	**Soil**							
Batch R5890036								
WG3771974-2 LCS								
Benzene			83.8		%		70-130	09-NOV-22
Toluene			73.5		%		70-130	09-NOV-22
Ethyl benzene			77.8		%		70-130	09-NOV-22
o-Xylene			79.0		%		70-130	09-NOV-22
m+p-Xylenes			78.5		%		70-130	09-NOV-22
WG3771974-3 LCS								
F1 (C6-C10)			103.4		%		70-130	09-NOV-22
WG3771974-1 MB								
Benzene			<0.0050		mg/kg		0.005	09-NOV-22
Toluene			<0.050		mg/kg		0.05	09-NOV-22
Ethyl benzene			<0.015		mg/kg		0.015	09-NOV-22
o-Xylene			<0.050		mg/kg		0.05	09-NOV-22
m+p-Xylenes			<0.050		mg/kg		0.05	09-NOV-22
F1 (C6-C10)			<10		mg/kg		10	09-NOV-22
Surrogate: 4-Bromofluorobenzene (SS)			87.1		%		70-130	09-NOV-22
Surrogate: 3,4-Dichlorotoluene (SS)			93.5		%		70-130	09-NOV-22
CL-PASTE-COL-SK	**Soil**							
Batch R5891524								
WG3772138-4 DUP		**L2739445-47**						
Chloride (Cl)		96	101		mg/L	5.0	30	14-NOV-22
WG3772138-3 IRM		**ALS SAL 2021**						
Chloride (Cl)			114.7		%		70-130	14-NOV-22
WG3772138-2 LCS								
Chloride (Cl)			113.4		%		80-120	14-NOV-22
WG3772138-1 MB								
Chloride (Cl)			<10		mg/L		10	14-NOV-22
Batch R5893517								
WG3772579-3 IRM		**ALS SAL 2021**						
Chloride (Cl)			101.7		%		70-130	17-NOV-22
WG3772579-2 LCS								
Chloride (Cl)			108.2		%		80-120	17-NOV-22
WG3772579-1 MB								
Chloride (Cl)			<10		mg/L		10	17-NOV-22
F2-F4-TMB-FID-WP	**Soil**							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-TMB-FID-WP	**Soil**							
Batch R5885297								
WG3771850-4 DUP		**L2739445-7**						
F2 (C10-C16)		<25	<25	RPD-NA	mg/kg	N/A	40	08-NOV-22
F3 (C16-C34)		<50	<50	RPD-NA	mg/kg	N/A	40	08-NOV-22
F4 (C34-C50)		<50	<50	RPD-NA	mg/kg	N/A	40	08-NOV-22
WG3771850-3 IRM		**ALS PHC RM3**						
F2 (C10-C16)			103.3		%		70-130	08-NOV-22
F3 (C16-C34)			95.1		%		70-130	08-NOV-22
F4 (C34-C50)			114.4		%		70-130	08-NOV-22
WG3772090-3 IRM		**ALS PHC RM3**						
F2 (C10-C16)			102.6		%		70-130	09-NOV-22
F3 (C16-C34)			97.8		%		70-130	09-NOV-22
F4 (C34-C50)			98.9		%		70-130	09-NOV-22
WG3771850-2 LCS								
F2 (C10-C16)			99.0		%		70-130	08-NOV-22
F3 (C16-C34)			94.1		%		70-130	08-NOV-22
F4 (C34-C50)			109.8		%		70-130	08-NOV-22
WG3772090-2 LCS								
F2 (C10-C16)			97.6		%		70-130	09-NOV-22
F3 (C16-C34)			93.8		%		70-130	09-NOV-22
F4 (C34-C50)			103.1		%		70-130	09-NOV-22
WG3771850-1 MB								
F2 (C10-C16)			<25		mg/kg		25	08-NOV-22
F3 (C16-C34)			<50		mg/kg		50	08-NOV-22
F4 (C34-C50)			<50		mg/kg		50	08-NOV-22
Surrogate: 2-Bromobenzotrifluoride			100.9		%		60-140	08-NOV-22
WG3772090-1 MB								
F2 (C10-C16)			<25		mg/kg		25	09-NOV-22
F3 (C16-C34)			<50		mg/kg		50	09-NOV-22
F4 (C34-C50)			<50		mg/kg		50	09-NOV-22
Surrogate: 2-Bromobenzotrifluoride			83.0		%		60-140	09-NOV-22
Batch R5890961								
WG3772610-4 DUP		**L2739445-64**						
F2 (C10-C16)		268	286		mg/kg	6.5	40	14-NOV-22
F3 (C16-C34)		4830	5640		mg/kg	15	40	14-NOV-22
F4 (C34-C50)		1780	1750		mg/kg	1.3	40	14-NOV-22
WG3772612-4 DUP		**L2739445-75**						
F2 (C10-C16)		<25	<25	RPD-NA	mg/kg	N/A	40	14-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-TMB-FID-WP	**Soil**							
Batch R5890961								
WG3772612-4	**DUP**	**L2739445-75**						
F3 (C16-C34)		<50	<50	RPD-NA	mg/kg	N/A	40	14-NOV-22
F4 (C34-C50)		<50	<50	RPD-NA	mg/kg	N/A	40	14-NOV-22
WG3772717-4	**DUP**	**L2739445-98**						
F2 (C10-C16)		<25	<25	RPD-NA	mg/kg	N/A	40	15-NOV-22
F3 (C16-C34)		<50	<50	RPD-NA	mg/kg	N/A	40	15-NOV-22
F4 (C34-C50)		<50	<50	RPD-NA	mg/kg	N/A	40	15-NOV-22
WG3772270-3	**IRM**	**ALS PHC RM3**						
F2 (C10-C16)			108.5		%		70-130	10-NOV-22
F3 (C16-C34)			102.0		%		70-130	10-NOV-22
F4 (C34-C50)			125.6		%		70-130	10-NOV-22
WG3772610-3	**IRM**	**ALS PHC RM3**						
F2 (C10-C16)			102.3		%		70-130	14-NOV-22
F3 (C16-C34)			98.1		%		70-130	14-NOV-22
F4 (C34-C50)			83.2		%		70-130	14-NOV-22
WG3772612-3	**IRM**	**ALS PHC RM3**						
F2 (C10-C16)			105.1		%		70-130	14-NOV-22
F3 (C16-C34)			97.0		%		70-130	14-NOV-22
F4 (C34-C50)			99.8		%		70-130	14-NOV-22
WG3772717-3	**IRM**	**ALS PHC RM3**						
F2 (C10-C16)			111.3		%		70-130	15-NOV-22
F3 (C16-C34)			101.7		%		70-130	15-NOV-22
F4 (C34-C50)			107.6		%		70-130	15-NOV-22
WG3772270-2	**LCS**							
F2 (C10-C16)			96.7		%		70-130	10-NOV-22
F3 (C16-C34)			93.4		%		70-130	10-NOV-22
F4 (C34-C50)			103.2		%		70-130	10-NOV-22
WG3772610-2	**LCS**							
F2 (C10-C16)			96.7		%		70-130	14-NOV-22
F3 (C16-C34)			93.1		%		70-130	14-NOV-22
F4 (C34-C50)			103.4		%		70-130	14-NOV-22
WG3772612-2	**LCS**							
F2 (C10-C16)			101.3		%		70-130	14-NOV-22
F3 (C16-C34)			99.2		%		70-130	14-NOV-22
F4 (C34-C50)			106.0		%		70-130	14-NOV-22
WG3772717-2	**LCS**							
F2 (C10-C16)			104.3		%		70-130	15-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-TMB-FID-WP	**Soil**							
Batch R5890961								
WG3772717-2 LCS								
F3 (C16-C34)			97.5		%		70-130	15-NOV-22
F4 (C34-C50)			105.0		%		70-130	15-NOV-22
WG3772270-1 MB								
F2 (C10-C16)			<25		mg/kg		25	10-NOV-22
F3 (C16-C34)			<50		mg/kg		50	10-NOV-22
F4 (C34-C50)			<50		mg/kg		50	10-NOV-22
Surrogate: 2-Bromobenzotrifluoride			83.6		%		60-140	10-NOV-22
WG3772610-1 MB								
F2 (C10-C16)			<25		mg/kg		25	14-NOV-22
F3 (C16-C34)			<50		mg/kg		50	14-NOV-22
F4 (C34-C50)			<50		mg/kg		50	14-NOV-22
Surrogate: 2-Bromobenzotrifluoride			103.3		%		60-140	14-NOV-22
WG3772612-1 MB								
F2 (C10-C16)			<25		mg/kg		25	14-NOV-22
F3 (C16-C34)			<50		mg/kg		50	14-NOV-22
F4 (C34-C50)			<50		mg/kg		50	14-NOV-22
Surrogate: 2-Bromobenzotrifluoride			84.1		%		60-140	14-NOV-22
WG3772717-1 MB								
F2 (C10-C16)			<25		mg/kg		25	15-NOV-22
F3 (C16-C34)			<50		mg/kg		50	15-NOV-22
F4 (C34-C50)			<50		mg/kg		50	15-NOV-22
Surrogate: 2-Bromobenzotrifluoride			103.8		%		60-140	15-NOV-22
F4G-TMB-WP	**Soil**							
Batch R5894231								
WG3773225-4 DUP		**L2739445-64**						
F4G-SG		6740	7430		mg/kg	9.7	40	18-NOV-22
WG3773225-2 IRM		**ALS PHC RM3**						
F4G-SG			96.4		%		70-130	18-NOV-22
WG3773225-3 LCS								
F4G-SG			104.7		%		70-130	18-NOV-22
WG3773225-1 MB								
F4G-SG			<500		mg/kg		500	18-NOV-22
HG-200.2-CVAA-WT	**Soil**							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-200.2-CVAA-WT	**Soil**							
Batch R5896196								
WG3773599-2 CRM		**WT-SS-2**						
Mercury (Hg)			102.2		%		70-130	23-NOV-22
WG3773599-3 LCS		**STD**						
Mercury (Hg)			102.5		%		80-120	23-NOV-22
WG3773599-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	23-NOV-22
MET-200.2-CCMS-WT	**Soil**							
Batch R5895476								
WG3773482-2 CRM		**WT-SS-2**						
Aluminum (Al)			108.7		%		70-130	21-NOV-22
Antimony (Sb)			110.5		%		70-130	21-NOV-22
Arsenic (As)			110.9		%		70-130	21-NOV-22
Barium (Ba)			112.7		%		70-130	21-NOV-22
Beryllium (Be)			113.1		%		70-130	21-NOV-22
Bismuth (Bi)			0.16		mg/kg		0-0.34	21-NOV-22
Boron (B)			9.4		mg/kg		3.5-13.5	21-NOV-22
Cadmium (Cd)			98.9		%		70-130	21-NOV-22
Calcium (Ca)			101.6		%		70-130	21-NOV-22
Chromium (Cr)			102.9		%		70-130	21-NOV-22
Cobalt (Co)			102.9		%		70-130	21-NOV-22
Copper (Cu)			99.9		%		70-130	21-NOV-22
Iron (Fe)			95.7		%		70-130	21-NOV-22
Lead (Pb)			101.3		%		70-130	21-NOV-22
Lithium (Li)			111.0		%		70-130	21-NOV-22
Magnesium (Mg)			104.0		%		70-130	21-NOV-22
Manganese (Mn)			104.5		%		70-130	21-NOV-22
Molybdenum (Mo)			110.9		%		70-130	21-NOV-22
Nickel (Ni)			102.9		%		70-130	21-NOV-22
Phosphorus (P)			106.5		%		70-130	21-NOV-22
Potassium (K)			102.6		%		70-130	21-NOV-22
Selenium (Se)			0.13		mg/kg		0-0.34	21-NOV-22
Silver (Ag)			123.4		%		70-130	21-NOV-22
Sodium (Na)			106.9		%		70-130	21-NOV-22
Strontium (Sr)			106.3		%		70-130	21-NOV-22
Thallium (Tl)			0.087		mg/kg		0.029-0.129	21-NOV-22
Tin (Sn)			97.7		%		70-130	21-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895476								
WG3773482-2 CRM		**WT-SS-2**						
Titanium (Ti)			100.0		%		70-130	21-NOV-22
Uranium (U)			109.2		%		70-130	21-NOV-22
Vanadium (V)			101.8		%		70-130	21-NOV-22
Zinc (Zn)			97.4		%		70-130	21-NOV-22
Zirconium (Zr)			115.0		%		70-130	21-NOV-22
WG3773482-4 LCS		**1+2**						
Aluminum (Al)			102.4		%		80-120	21-NOV-22
Antimony (Sb)			107.9		%		80-120	21-NOV-22
Arsenic (As)			107.3		%		80-120	21-NOV-22
Barium (Ba)			107.8		%		80-120	21-NOV-22
Beryllium (Be)			98.4		%		80-120	21-NOV-22
Bismuth (Bi)			97.4		%		80-120	21-NOV-22
Boron (B)			96.9		%		80-120	21-NOV-22
Cadmium (Cd)			102.8		%		80-120	21-NOV-22
Calcium (Ca)			102.1		%		80-120	21-NOV-22
Chromium (Cr)			100.2		%		80-120	21-NOV-22
Cobalt (Co)			101.5		%		80-120	21-NOV-22
Copper (Cu)			98.7		%		80-120	21-NOV-22
Iron (Fe)			96.5		%		80-120	21-NOV-22
Lead (Pb)			101.8		%		80-120	21-NOV-22
Lithium (Li)			98.3		%		80-120	21-NOV-22
Magnesium (Mg)			105.8		%		80-120	21-NOV-22
Manganese (Mn)			101.8		%		80-120	21-NOV-22
Molybdenum (Mo)			109.0		%		80-120	21-NOV-22
Nickel (Ni)			100.5		%		80-120	21-NOV-22
Phosphorus (P)			102.1		%		80-120	21-NOV-22
Potassium (K)			97.8		%		80-120	21-NOV-22
Selenium (Se)			102.7		%		80-120	21-NOV-22
Silver (Ag)			99.97		%		80-120	21-NOV-22
Sodium (Na)			97.8		%		80-120	21-NOV-22
Strontium (Sr)			103.8		%		80-120	21-NOV-22
Sulfur (S)			99.7		%		80-120	21-NOV-22
Thallium (Tl)			97.6		%		80-120	21-NOV-22
Tin (Sn)			101.5		%		80-120	21-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895476								
WG3773482-4 LCS		**1+2**						
Titanium (Ti)			98.6		%		80-120	21-NOV-22
Tungsten (W)			105.3		%		80-120	21-NOV-22
Uranium (U)			109.2		%		80-120	21-NOV-22
Vanadium (V)			102.7		%		80-120	21-NOV-22
Zinc (Zn)			97.1		%		80-120	21-NOV-22
Zirconium (Zr)			105.5		%		80-120	21-NOV-22
WG3773482-1 MB								
Aluminum (Al)			<50		mg/kg		50	21-NOV-22
Antimony (Sb)			<0.10		mg/kg		0.1	21-NOV-22
Arsenic (As)			<0.10		mg/kg		0.1	21-NOV-22
Barium (Ba)			<0.50		mg/kg		0.5	21-NOV-22
Beryllium (Be)			<0.10		mg/kg		0.1	21-NOV-22
Bismuth (Bi)			<0.20		mg/kg		0.2	21-NOV-22
Boron (B)			<5.0		mg/kg		5	21-NOV-22
Cadmium (Cd)			<0.020		mg/kg		0.02	21-NOV-22
Calcium (Ca)			<50		mg/kg		50	21-NOV-22
Chromium (Cr)			<0.50		mg/kg		0.5	21-NOV-22
Cobalt (Co)			<0.10		mg/kg		0.1	21-NOV-22
Copper (Cu)			<0.50		mg/kg		0.5	21-NOV-22
Iron (Fe)			<50		mg/kg		50	21-NOV-22
Lead (Pb)			<0.50		mg/kg		0.5	21-NOV-22
Lithium (Li)			<2.0		mg/kg		2	21-NOV-22
Magnesium (Mg)			<20		mg/kg		20	21-NOV-22
Manganese (Mn)			<1.0		mg/kg		1	21-NOV-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	21-NOV-22
Nickel (Ni)			<0.50		mg/kg		0.5	21-NOV-22
Phosphorus (P)			<50		mg/kg		50	21-NOV-22
Potassium (K)			<100		mg/kg		100	21-NOV-22
Selenium (Se)			<0.20		mg/kg		0.2	21-NOV-22
Silver (Ag)			<0.10		mg/kg		0.1	21-NOV-22
Sodium (Na)			<50		mg/kg		50	21-NOV-22
Strontium (Sr)			<0.50		mg/kg		0.5	21-NOV-22
Sulfur (S)			<1000		mg/kg		1000	21-NOV-22
Thallium (Tl)			<0.050		mg/kg		0.05	21-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895476								
WG3773482-1 MB								
Tin (Sn)			<2.0		mg/kg		2	21-NOV-22
Titanium (Ti)			<1.0		mg/kg		1	21-NOV-22
Tungsten (W)			<0.50		mg/kg		0.5	21-NOV-22
Uranium (U)			<0.050		mg/kg		0.05	21-NOV-22
Vanadium (V)			<0.20		mg/kg		0.2	21-NOV-22
Zinc (Zn)			<2.0		mg/kg		2	21-NOV-22
Zirconium (Zr)			<1.0		mg/kg		1	21-NOV-22
Batch R5895478								
WG3773470-2 CRM		**WT-SS-2**						
Aluminum (Al)			106.6		%		70-130	21-NOV-22
Antimony (Sb)			92.7		%		70-130	21-NOV-22
Arsenic (As)			100.8		%		70-130	21-NOV-22
Barium (Ba)			104.4		%		70-130	21-NOV-22
Beryllium (Be)			99.3		%		70-130	21-NOV-22
Bismuth (Bi)			0.14		mg/kg		0-0.34	21-NOV-22
Boron (B)			8.3		mg/kg		3.5-13.5	21-NOV-22
Cadmium (Cd)			95.6		%		70-130	21-NOV-22
Calcium (Ca)			93.8		%		70-130	21-NOV-22
Chromium (Cr)			96.1		%		70-130	21-NOV-22
Cobalt (Co)			97.2		%		70-130	21-NOV-22
Copper (Cu)			101.4		%		70-130	21-NOV-22
Iron (Fe)			93.8		%		70-130	21-NOV-22
Lead (Pb)			97.1		%		70-130	21-NOV-22
Lithium (Li)			94.9		%		70-130	21-NOV-22
Magnesium (Mg)			100.5		%		70-130	21-NOV-22
Manganese (Mn)			98.6		%		70-130	21-NOV-22
Molybdenum (Mo)			102.7		%		70-130	21-NOV-22
Nickel (Ni)			97.0		%		70-130	21-NOV-22
Phosphorus (P)			93.4		%		70-130	21-NOV-22
Potassium (K)			96.6		%		70-130	21-NOV-22
Selenium (Se)			0.11		mg/kg		0-0.34	21-NOV-22
Silver (Ag)			84.4		%		70-130	21-NOV-22
Sodium (Na)			101.2		%		70-130	21-NOV-22
Strontium (Sr)			99.2		%		70-130	21-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895478								
WG3773470-2 CRM		**WT-SS-2**						
Thallium (Tl)			0.075		mg/kg		0.029-0.129	21-NOV-22
Tin (Sn)			94.0		%		70-130	21-NOV-22
Titanium (Ti)			96.0		%		70-130	21-NOV-22
Uranium (U)			99.6		%		70-130	21-NOV-22
Vanadium (V)			96.8		%		70-130	21-NOV-22
Zinc (Zn)			92.7		%		70-130	21-NOV-22
Zirconium (Zr)			100.4		%		70-130	21-NOV-22
WG3773470-4 LCS		**1+2**						
Aluminum (Al)			105.9		%		80-120	21-NOV-22
Antimony (Sb)			105.6		%		80-120	21-NOV-22
Arsenic (As)			108.9		%		80-120	21-NOV-22
Barium (Ba)			104.3		%		80-120	21-NOV-22
Beryllium (Be)			98.4		%		80-120	21-NOV-22
Bismuth (Bi)			98.5		%		80-120	21-NOV-22
Boron (B)			93.2		%		80-120	21-NOV-22
Cadmium (Cd)			103.3		%		80-120	21-NOV-22
Calcium (Ca)			101.1		%		80-120	21-NOV-22
Chromium (Cr)			101.6		%		80-120	21-NOV-22
Cobalt (Co)			102.8		%		80-120	21-NOV-22
Copper (Cu)			100.5		%		80-120	21-NOV-22
Iron (Fe)			101.0		%		80-120	21-NOV-22
Lead (Pb)			102.8		%		80-120	21-NOV-22
Lithium (Li)			97.2		%		80-120	21-NOV-22
Magnesium (Mg)			109.2		%		80-120	21-NOV-22
Manganese (Mn)			103.3		%		80-120	21-NOV-22
Molybdenum (Mo)			104.3		%		80-120	21-NOV-22
Nickel (Ni)			102.5		%		80-120	21-NOV-22
Phosphorus (P)			104.6		%		80-120	21-NOV-22
Potassium (K)			102.5		%		80-120	21-NOV-22
Selenium (Se)			102.9		%		80-120	21-NOV-22
Silver (Ag)			92.7		%		80-120	21-NOV-22
Sodium (Na)			100.5		%		80-120	21-NOV-22
Strontium (Sr)			105.2		%		80-120	21-NOV-22
Sulfur (S)			101.9		%		80-120	21-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895478								
WG3773470-4 LCS		**1+2**						
Thallium (Tl)			98.8		%		80-120	21-NOV-22
Tin (Sn)			103.2		%		80-120	21-NOV-22
Titanium (Ti)			101.5		%		80-120	21-NOV-22
Tungsten (W)			101.6		%		80-120	21-NOV-22
Uranium (U)			104.3		%		80-120	21-NOV-22
Vanadium (V)			105.6		%		80-120	21-NOV-22
Zinc (Zn)			98.4		%		80-120	21-NOV-22
Zirconium (Zr)			99.2		%		80-120	21-NOV-22
WG3773470-1 MB								
Aluminum (Al)			<50		mg/kg		50	21-NOV-22
Antimony (Sb)			<0.10		mg/kg		0.1	21-NOV-22
Arsenic (As)			<0.10		mg/kg		0.1	21-NOV-22
Barium (Ba)			<0.50		mg/kg		0.5	21-NOV-22
Beryllium (Be)			<0.10		mg/kg		0.1	21-NOV-22
Bismuth (Bi)			<0.20		mg/kg		0.2	21-NOV-22
Boron (B)			<5.0		mg/kg		5	21-NOV-22
Cadmium (Cd)			<0.020		mg/kg		0.02	21-NOV-22
Calcium (Ca)			<50		mg/kg		50	21-NOV-22
Chromium (Cr)			<0.50		mg/kg		0.5	21-NOV-22
Cobalt (Co)			<0.10		mg/kg		0.1	21-NOV-22
Copper (Cu)			<0.50		mg/kg		0.5	21-NOV-22
Iron (Fe)			<50		mg/kg		50	21-NOV-22
Lead (Pb)			<0.50		mg/kg		0.5	21-NOV-22
Lithium (Li)			<2.0		mg/kg		2	21-NOV-22
Magnesium (Mg)			<20		mg/kg		20	21-NOV-22
Manganese (Mn)			<1.0		mg/kg		1	21-NOV-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	21-NOV-22
Nickel (Ni)			<0.50		mg/kg		0.5	21-NOV-22
Phosphorus (P)			<50		mg/kg		50	21-NOV-22
Potassium (K)			<100		mg/kg		100	21-NOV-22
Selenium (Se)			<0.20		mg/kg		0.2	21-NOV-22
Silver (Ag)			<0.10		mg/kg		0.1	21-NOV-22
Sodium (Na)			<50		mg/kg		50	21-NOV-22
Strontium (Sr)			<0.50		mg/kg		0.5	21-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895478								
WG3773470-1 MB								
Sulfur (S)			<1000		mg/kg		1000	21-NOV-22
Thallium (Tl)			<0.050		mg/kg		0.05	21-NOV-22
Tin (Sn)			<2.0		mg/kg		2	21-NOV-22
Titanium (Ti)			<1.0		mg/kg		1	21-NOV-22
Tungsten (W)			<0.50		mg/kg		0.5	21-NOV-22
Uranium (U)			<0.050		mg/kg		0.05	21-NOV-22
Vanadium (V)			<0.20		mg/kg		0.2	21-NOV-22
Zinc (Zn)			<2.0		mg/kg		2	21-NOV-22
Zirconium (Zr)			<1.0		mg/kg		1	21-NOV-22
Batch R5895877								
WG3773570-2 CRM		**WT-SS-2**						
Aluminum (Al)			118.2		%		70-130	22-NOV-22
Antimony (Sb)			105.9		%		70-130	22-NOV-22
Arsenic (As)			107.2		%		70-130	22-NOV-22
Barium (Ba)			107.3		%		70-130	22-NOV-22
Beryllium (Be)			110.3		%		70-130	22-NOV-22
Bismuth (Bi)			0.14		mg/kg		0-0.34	22-NOV-22
Boron (B)			10.1		mg/kg		3.5-13.5	22-NOV-22
Cadmium (Cd)			115.2		%		70-130	22-NOV-22
Calcium (Ca)			107.5		%		70-130	22-NOV-22
Chromium (Cr)			105.1		%		70-130	22-NOV-22
Cobalt (Co)			105.8		%		70-130	22-NOV-22
Copper (Cu)			105.7		%		70-130	22-NOV-22
Iron (Fe)			106.9		%		70-130	22-NOV-22
Lead (Pb)			108.6		%		70-130	22-NOV-22
Lithium (Li)			112.4		%		70-130	22-NOV-22
Magnesium (Mg)			113.9		%		70-130	22-NOV-22
Manganese (Mn)			106.8		%		70-130	22-NOV-22
Molybdenum (Mo)			110.9		%		70-130	22-NOV-22
Nickel (Ni)			106.2		%		70-130	22-NOV-22
Phosphorus (P)			112.9		%		70-130	22-NOV-22
Potassium (K)			107.4		%		70-130	22-NOV-22
Selenium (Se)			0.12		mg/kg		0-0.34	22-NOV-22
Silver (Ag)			105.9		%		70-130	22-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895877								
WG3773570-2 CRM		**WT-SS-2**						
Sodium (Na)			113.9		%		70-130	22-NOV-22
Strontium (Sr)			107.3		%		70-130	22-NOV-22
Thallium (Tl)			0.084		mg/kg		0.029-0.129	22-NOV-22
Tin (Sn)			109.0		%		70-130	22-NOV-22
Titanium (Ti)			109.5		%		70-130	22-NOV-22
Uranium (U)			102.8		%		70-130	22-NOV-22
Vanadium (V)			107.6		%		70-130	22-NOV-22
Zinc (Zn)			98.0		%		70-130	22-NOV-22
Zirconium (Zr)			106.4		%		70-130	22-NOV-22
WG3773570-4 LCS		**1+2**						
Aluminum (Al)			111.4		%		80-120	22-NOV-22
Antimony (Sb)			105.5		%		80-120	22-NOV-22
Arsenic (As)			108.9		%		80-120	22-NOV-22
Barium (Ba)			104.4		%		80-120	22-NOV-22
Beryllium (Be)			107.6		%		80-120	22-NOV-22
Bismuth (Bi)			98.6		%		80-120	22-NOV-22
Boron (B)			105.7		%		80-120	22-NOV-22
Cadmium (Cd)			104.7		%		80-120	22-NOV-22
Calcium (Ca)			105.7		%		80-120	22-NOV-22
Chromium (Cr)			105.9		%		80-120	22-NOV-22
Cobalt (Co)			104.3		%		80-120	22-NOV-22
Copper (Cu)			101.5		%		80-120	22-NOV-22
Iron (Fe)			104.9		%		80-120	22-NOV-22
Lead (Pb)			103.7		%		80-120	22-NOV-22
Lithium (Li)			109.1		%		80-120	22-NOV-22
Magnesium (Mg)			113.8		%		80-120	22-NOV-22
Manganese (Mn)			105.2		%		80-120	22-NOV-22
Molybdenum (Mo)			107.1		%		80-120	22-NOV-22
Nickel (Ni)			104.0		%		80-120	22-NOV-22
Phosphorus (P)			116.8		%		80-120	22-NOV-22
Potassium (K)			111.6		%		80-120	22-NOV-22
Selenium (Se)			101.9		%		80-120	22-NOV-22
Silver (Ag)			98.7		%		80-120	22-NOV-22
Sodium (Na)			110.8		%		80-120	22-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895877								
WG3773570-4 LCS		**1+2**						
Strontium (Sr)			112.2		%		80-120	22-NOV-22
Sulfur (S)			113.4		%		80-120	22-NOV-22
Thallium (Tl)			99.5		%		80-120	22-NOV-22
Tin (Sn)			104.7		%		80-120	22-NOV-22
Titanium (Ti)			104.7		%		80-120	22-NOV-22
Tungsten (W)			97.9		%		80-120	22-NOV-22
Uranium (U)			100.1		%		80-120	22-NOV-22
Vanadium (V)			107.7		%		80-120	22-NOV-22
Zinc (Zn)			97.4		%		80-120	22-NOV-22
Zirconium (Zr)			102.8		%		80-120	22-NOV-22
WG3773570-1 MB								
Aluminum (Al)			<50		mg/kg		50	22-NOV-22
Antimony (Sb)			<0.10		mg/kg		0.1	22-NOV-22
Arsenic (As)			<0.10		mg/kg		0.1	22-NOV-22
Barium (Ba)			<0.50		mg/kg		0.5	22-NOV-22
Beryllium (Be)			<0.10		mg/kg		0.1	22-NOV-22
Bismuth (Bi)			<0.20		mg/kg		0.2	22-NOV-22
Boron (B)			<5.0		mg/kg		5	22-NOV-22
Cadmium (Cd)			<0.020		mg/kg		0.02	22-NOV-22
Calcium (Ca)			<50		mg/kg		50	22-NOV-22
Chromium (Cr)			<0.50		mg/kg		0.5	22-NOV-22
Cobalt (Co)			<0.10		mg/kg		0.1	22-NOV-22
Copper (Cu)			<0.50		mg/kg		0.5	22-NOV-22
Iron (Fe)			<50		mg/kg		50	22-NOV-22
Lead (Pb)			<0.50		mg/kg		0.5	22-NOV-22
Lithium (Li)			<2.0		mg/kg		2	22-NOV-22
Magnesium (Mg)			<20		mg/kg		20	22-NOV-22
Manganese (Mn)			<1.0		mg/kg		1	22-NOV-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	22-NOV-22
Nickel (Ni)			<0.50		mg/kg		0.5	22-NOV-22
Phosphorus (P)			<50		mg/kg		50	22-NOV-22
Potassium (K)			<100		mg/kg		100	22-NOV-22
Selenium (Se)			<0.20		mg/kg		0.2	22-NOV-22
Silver (Ag)			<0.10		mg/kg		0.1	22-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895877								
WG3773570-1 MB								
Sodium (Na)			<50		mg/kg		50	22-NOV-22
Strontium (Sr)			<0.50		mg/kg		0.5	22-NOV-22
Sulfur (S)			<1000		mg/kg		1000	22-NOV-22
Thallium (Tl)			<0.050		mg/kg		0.05	22-NOV-22
Tin (Sn)			<2.0		mg/kg		2	22-NOV-22
Titanium (Ti)			<1.0		mg/kg		1	22-NOV-22
Tungsten (W)			<0.50		mg/kg		0.5	22-NOV-22
Uranium (U)			<0.050		mg/kg		0.05	22-NOV-22
Vanadium (V)			<0.20		mg/kg		0.2	22-NOV-22
Zinc (Zn)			<2.0		mg/kg		2	22-NOV-22
Zirconium (Zr)			<1.0		mg/kg		1	22-NOV-22
Batch R5895897								
WG3773580-2 CRM		**WT-SS-2**						
Aluminum (Al)			113.4		%		70-130	22-NOV-22
Antimony (Sb)			92.8		%		70-130	22-NOV-22
Arsenic (As)			105.2		%		70-130	22-NOV-22
Barium (Ba)			112.6		%		70-130	22-NOV-22
Beryllium (Be)			103.3		%		70-130	22-NOV-22
Bismuth (Bi)			0.15		mg/kg		0-0.34	22-NOV-22
Boron (B)			8.8		mg/kg		3.5-13.5	22-NOV-22
Cadmium (Cd)			118.0		%		70-130	22-NOV-22
Calcium (Ca)			106.2		%		70-130	22-NOV-22
Chromium (Cr)			100.0		%		70-130	22-NOV-22
Cobalt (Co)			104.0		%		70-130	22-NOV-22
Copper (Cu)			103.5		%		70-130	22-NOV-22
Iron (Fe)			100.2		%		70-130	22-NOV-22
Lead (Pb)			105.8		%		70-130	22-NOV-22
Lithium (Li)			103.2		%		70-130	22-NOV-22
Magnesium (Mg)			110.3		%		70-130	22-NOV-22
Manganese (Mn)			106.3		%		70-130	22-NOV-22
Molybdenum (Mo)			94.4		%		70-130	22-NOV-22
Nickel (Ni)			104.0		%		70-130	22-NOV-22
Phosphorus (P)			103.6		%		70-130	22-NOV-22
Potassium (K)			110.2		%		70-130	22-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895897								
WG3773580-2 CRM		**WT-SS-2**						
Selenium (Se)			0.13		mg/kg		0-0.34	22-NOV-22
Silver (Ag)			96.2		%		70-130	22-NOV-22
Sodium (Na)			115.3		%		70-130	22-NOV-22
Strontium (Sr)			99.7		%		70-130	22-NOV-22
Thallium (Tl)			0.075		mg/kg		0.029-0.129	22-NOV-22
Tin (Sn)			101.8		%		70-130	22-NOV-22
Titanium (Ti)			99.1		%		70-130	22-NOV-22
Uranium (U)			96.0		%		70-130	22-NOV-22
Vanadium (V)			103.5		%		70-130	22-NOV-22
Zinc (Zn)			99.7		%		70-130	22-NOV-22
Zirconium (Zr)			90.3		%		70-130	22-NOV-22
WG3773580-4 LCS		**1+2**						
Aluminum (Al)			106.0		%		80-120	22-NOV-22
Antimony (Sb)			100.1		%		80-120	22-NOV-22
Arsenic (As)			106.1		%		80-120	22-NOV-22
Barium (Ba)			97.2		%		80-120	22-NOV-22
Beryllium (Be)			97.0		%		80-120	22-NOV-22
Bismuth (Bi)			99.6		%		80-120	22-NOV-22
Boron (B)			94.6		%		80-120	22-NOV-22
Cadmium (Cd)			102.2		%		80-120	22-NOV-22
Calcium (Ca)			99.8		%		80-120	22-NOV-22
Chromium (Cr)			100.8		%		80-120	22-NOV-22
Cobalt (Co)			100.9		%		80-120	22-NOV-22
Copper (Cu)			97.7		%		80-120	22-NOV-22
Iron (Fe)			95.9		%		80-120	22-NOV-22
Lead (Pb)			99.1		%		80-120	22-NOV-22
Lithium (Li)			97.1		%		80-120	22-NOV-22
Magnesium (Mg)			108.4		%		80-120	22-NOV-22
Manganese (Mn)			101.9		%		80-120	22-NOV-22
Molybdenum (Mo)			99.9		%		80-120	22-NOV-22
Nickel (Ni)			99.4		%		80-120	22-NOV-22
Phosphorus (P)			106.1		%		80-120	22-NOV-22
Potassium (K)			100.9		%		80-120	22-NOV-22
Selenium (Se)			97.0		%		80-120	22-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895897								
WG3773580-4 LCS		**1+2**						
Silver (Ag)			88.8		%		80-120	22-NOV-22
Sodium (Na)			105.5		%		80-120	22-NOV-22
Strontium (Sr)			101.2		%		80-120	22-NOV-22
Sulfur (S)			100.7		%		80-120	22-NOV-22
Thallium (Tl)			97.6		%		80-120	22-NOV-22
Tin (Sn)			100.0		%		80-120	22-NOV-22
Titanium (Ti)			100.1		%		80-120	22-NOV-22
Tungsten (W)			96.3		%		80-120	22-NOV-22
Uranium (U)			95.5		%		80-120	22-NOV-22
Vanadium (V)			102.8		%		80-120	22-NOV-22
Zinc (Zn)			97.0		%		80-120	22-NOV-22
Zirconium (Zr)			94.4		%		80-120	22-NOV-22
WG3773580-1 MB								
Aluminum (Al)			<50		mg/kg		50	22-NOV-22
Antimony (Sb)			<0.10		mg/kg		0.1	22-NOV-22
Arsenic (As)			<0.10		mg/kg		0.1	22-NOV-22
Barium (Ba)			<0.50		mg/kg		0.5	22-NOV-22
Beryllium (Be)			<0.10		mg/kg		0.1	22-NOV-22
Bismuth (Bi)			<0.20		mg/kg		0.2	22-NOV-22
Boron (B)			<5.0		mg/kg		5	22-NOV-22
Cadmium (Cd)			<0.020		mg/kg		0.02	22-NOV-22
Calcium (Ca)			<50		mg/kg		50	22-NOV-22
Chromium (Cr)			<0.50		mg/kg		0.5	22-NOV-22
Cobalt (Co)			<0.10		mg/kg		0.1	22-NOV-22
Copper (Cu)			<0.50		mg/kg		0.5	22-NOV-22
Iron (Fe)			<50		mg/kg		50	22-NOV-22
Lead (Pb)			<0.50		mg/kg		0.5	22-NOV-22
Lithium (Li)			<2.0		mg/kg		2	22-NOV-22
Magnesium (Mg)			<20		mg/kg		20	22-NOV-22
Manganese (Mn)			<1.0		mg/kg		1	22-NOV-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	22-NOV-22
Nickel (Ni)			<0.50		mg/kg		0.5	22-NOV-22
Phosphorus (P)			<50		mg/kg		50	22-NOV-22
Potassium (K)			<100		mg/kg		100	22-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5895897								
WG3773580-1 MB								
Selenium (Se)			<0.20		mg/kg		0.2	22-NOV-22
Silver (Ag)			<0.10		mg/kg		0.1	22-NOV-22
Sodium (Na)			<50		mg/kg		50	22-NOV-22
Strontium (Sr)			<0.50		mg/kg		0.5	22-NOV-22
Sulfur (S)			<1000		mg/kg		1000	22-NOV-22
Thallium (Tl)			<0.050		mg/kg		0.05	22-NOV-22
Tin (Sn)			<2.0		mg/kg		2	22-NOV-22
Titanium (Ti)			<1.0		mg/kg		1	22-NOV-22
Tungsten (W)			<0.50		mg/kg		0.5	22-NOV-22
Uranium (U)			<0.050		mg/kg		0.05	22-NOV-22
Vanadium (V)			<0.20		mg/kg		0.2	22-NOV-22
Zinc (Zn)			<2.0		mg/kg		2	22-NOV-22
Zirconium (Zr)			<1.0		mg/kg		1	22-NOV-22
Batch R5896057								
WG3773588-2 CRM		**WT-SS-2**						
Aluminum (Al)			98.4		%		70-130	22-NOV-22
Antimony (Sb)			91.8		%		70-130	22-NOV-22
Arsenic (As)			90.3		%		70-130	22-NOV-22
Barium (Ba)			100.1		%		70-130	22-NOV-22
Beryllium (Be)			98.5		%		70-130	22-NOV-22
Bismuth (Bi)			0.11		mg/kg		0-0.34	22-NOV-22
Boron (B)			8.4		mg/kg		3.5-13.5	22-NOV-22
Cadmium (Cd)			100.6		%		70-130	22-NOV-22
Calcium (Ca)			92.0		%		70-130	22-NOV-22
Chromium (Cr)			97.0		%		70-130	22-NOV-22
Cobalt (Co)			94.7		%		70-130	22-NOV-22
Copper (Cu)			92.8		%		70-130	22-NOV-22
Iron (Fe)			93.7		%		70-130	22-NOV-22
Lead (Pb)			93.8		%		70-130	22-NOV-22
Lithium (Li)			88.9		%		70-130	22-NOV-22
Magnesium (Mg)			96.5		%		70-130	22-NOV-22
Manganese (Mn)			101.5		%		70-130	22-NOV-22
Molybdenum (Mo)			97.7		%		70-130	22-NOV-22
Nickel (Ni)			92.9		%		70-130	22-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5896057								
WG3773588-2 CRM		**WT-SS-2**						
Phosphorus (P)			86.6		%		70-130	22-NOV-22
Potassium (K)			100.3		%		70-130	22-NOV-22
Selenium (Se)			0.15		mg/kg		0-0.34	22-NOV-22
Silver (Ag)			88.2		%		70-130	22-NOV-22
Sodium (Na)			95.9		%		70-130	22-NOV-22
Strontium (Sr)			94.9		%		70-130	22-NOV-22
Thallium (Tl)			0.069		mg/kg		0.029-0.129	22-NOV-22
Tin (Sn)			99.8		%		70-130	22-NOV-22
Titanium (Ti)			98.7		%		70-130	22-NOV-22
Uranium (U)			88.2		%		70-130	22-NOV-22
Vanadium (V)			95.8		%		70-130	22-NOV-22
Zinc (Zn)			88.9		%		70-130	22-NOV-22
Zirconium (Zr)			96.9		%		70-130	22-NOV-22
WG3773588-4 LCS		**1+2**						
Aluminum (Al)			105.2		%		80-120	22-NOV-22
Antimony (Sb)			110.1		%		80-120	22-NOV-22
Arsenic (As)			108.3		%		80-120	22-NOV-22
Barium (Ba)			104.5		%		80-120	22-NOV-22
Beryllium (Be)			100.8		%		80-120	22-NOV-22
Bismuth (Bi)			97.5		%		80-120	22-NOV-22
Boron (B)			97.0		%		80-120	22-NOV-22
Cadmium (Cd)			103.7		%		80-120	22-NOV-22
Calcium (Ca)			103.3		%		80-120	22-NOV-22
Chromium (Cr)			102.6		%		80-120	22-NOV-22
Cobalt (Co)			103.1		%		80-120	22-NOV-22
Copper (Cu)			100.8		%		80-120	22-NOV-22
Iron (Fe)			103.1		%		80-120	22-NOV-22
Lead (Pb)			99.5		%		80-120	22-NOV-22
Lithium (Li)			96.4		%		80-120	22-NOV-22
Magnesium (Mg)			109.6		%		80-120	22-NOV-22
Manganese (Mn)			105.1		%		80-120	22-NOV-22
Molybdenum (Mo)			104.1		%		80-120	22-NOV-22
Nickel (Ni)			101.7		%		80-120	22-NOV-22
Phosphorus (P)			108.1		%		80-120	22-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5896057								
WG3773588-4 LCS		**1+2**						
Potassium (K)			102.8		%		80-120	22-NOV-22
Selenium (Se)			111.8		%		80-120	22-NOV-22
Silver (Ag)			91.5		%		80-120	22-NOV-22
Sodium (Na)			104.5		%		80-120	22-NOV-22
Strontium (Sr)			108.6		%		80-120	22-NOV-22
Sulfur (S)			105.4		%		80-120	22-NOV-22
Thallium (Tl)			104.7		%		80-120	22-NOV-22
Tin (Sn)			102.8		%		80-120	22-NOV-22
Titanium (Ti)			100.6		%		80-120	22-NOV-22
Tungsten (W)			101.5		%		80-120	22-NOV-22
Uranium (U)			95.5		%		80-120	22-NOV-22
Vanadium (V)			105.8		%		80-120	22-NOV-22
Zinc (Zn)			98.8		%		80-120	22-NOV-22
Zirconium (Zr)			99.2		%		80-120	22-NOV-22
WG3773588-1 MB								
Aluminum (Al)			<50		mg/kg		50	22-NOV-22
Antimony (Sb)			<0.10		mg/kg		0.1	22-NOV-22
Arsenic (As)			<0.10		mg/kg		0.1	22-NOV-22
Barium (Ba)			<0.50		mg/kg		0.5	22-NOV-22
Beryllium (Be)			<0.10		mg/kg		0.1	22-NOV-22
Bismuth (Bi)			<0.20		mg/kg		0.2	22-NOV-22
Boron (B)			<5.0		mg/kg		5	22-NOV-22
Cadmium (Cd)			<0.020		mg/kg		0.02	22-NOV-22
Calcium (Ca)			<50		mg/kg		50	22-NOV-22
Chromium (Cr)			<0.50		mg/kg		0.5	22-NOV-22
Cobalt (Co)			<0.10		mg/kg		0.1	22-NOV-22
Copper (Cu)			<0.50		mg/kg		0.5	22-NOV-22
Iron (Fe)			<50		mg/kg		50	22-NOV-22
Lead (Pb)			<0.50		mg/kg		0.5	22-NOV-22
Lithium (Li)			<2.0		mg/kg		2	22-NOV-22
Magnesium (Mg)			<20		mg/kg		20	22-NOV-22
Manganese (Mn)			<1.0		mg/kg		1	22-NOV-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	22-NOV-22
Nickel (Ni)			<0.50		mg/kg		0.5	22-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5896057								
WG3773588-1 MB								
Phosphorus (P)			<50		mg/kg		50	22-NOV-22
Potassium (K)			<100		mg/kg		100	22-NOV-22
Selenium (Se)			<0.20		mg/kg		0.2	22-NOV-22
Silver (Ag)			<0.10		mg/kg		0.1	22-NOV-22
Sodium (Na)			<50		mg/kg		50	22-NOV-22
Strontium (Sr)			<0.50		mg/kg		0.5	22-NOV-22
Sulfur (S)			<1000		mg/kg		1000	22-NOV-22
Thallium (Tl)			<0.050		mg/kg		0.05	22-NOV-22
Tin (Sn)			<2.0		mg/kg		2	22-NOV-22
Titanium (Ti)			<1.0		mg/kg		1	22-NOV-22
Tungsten (W)			<0.50		mg/kg		0.5	22-NOV-22
Uranium (U)			<0.050		mg/kg		0.05	22-NOV-22
Vanadium (V)			<0.20		mg/kg		0.2	22-NOV-22
Zinc (Zn)			<2.0		mg/kg		2	22-NOV-22
Zirconium (Zr)			<1.0		mg/kg		1	22-NOV-22
Batch R5896058								
WG3773599-2 CRM		**WT-SS-2**						
Aluminum (Al)			112.2		%		70-130	22-NOV-22
Antimony (Sb)			93.8		%		70-130	22-NOV-22
Arsenic (As)			102.3		%		70-130	22-NOV-22
Barium (Ba)			101.4		%		70-130	22-NOV-22
Beryllium (Be)			102.5		%		70-130	22-NOV-22
Bismuth (Bi)			0.15		mg/kg		0-0.34	22-NOV-22
Boron (B)			8.8		mg/kg		3.5-13.5	22-NOV-22
Cadmium (Cd)			95.9		%		70-130	22-NOV-22
Calcium (Ca)			104.0		%		70-130	22-NOV-22
Chromium (Cr)			98.6		%		70-130	22-NOV-22
Cobalt (Co)			98.6		%		70-130	22-NOV-22
Copper (Cu)			99.3		%		70-130	22-NOV-22
Iron (Fe)			98.2		%		70-130	22-NOV-22
Lead (Pb)			104.3		%		70-130	22-NOV-22
Lithium (Li)			97.3		%		70-130	22-NOV-22
Magnesium (Mg)			102.3		%		70-130	22-NOV-22
Manganese (Mn)			101.3		%		70-130	22-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5896058								
WG3773599-2 CRM		**WT-SS-2**						
Molybdenum (Mo)			109.8		%		70-130	22-NOV-22
Nickel (Ni)			102.0		%		70-130	22-NOV-22
Phosphorus (P)			98.9		%		70-130	22-NOV-22
Potassium (K)			107.3		%		70-130	22-NOV-22
Selenium (Se)			0.14		mg/kg		0-0.34	22-NOV-22
Silver (Ag)			87.6		%		70-130	22-NOV-22
Sodium (Na)			109.4		%		70-130	22-NOV-22
Strontium (Sr)			103.2		%		70-130	22-NOV-22
Thallium (Tl)			0.080		mg/kg		0.029-0.129	22-NOV-22
Tin (Sn)			94.6		%		70-130	22-NOV-22
Titanium (Ti)			102.7		%		70-130	22-NOV-22
Uranium (U)			93.8		%		70-130	22-NOV-22
Vanadium (V)			101.0		%		70-130	22-NOV-22
Zinc (Zn)			93.7		%		70-130	22-NOV-22
Zirconium (Zr)			105.3		%		70-130	22-NOV-22
WG3773599-4 LCS		**1+2**						
Aluminum (Al)			108.9		%		80-120	22-NOV-22
Antimony (Sb)			103.5		%		80-120	22-NOV-22
Arsenic (As)			109.3		%		80-120	22-NOV-22
Barium (Ba)			101.8		%		80-120	22-NOV-22
Beryllium (Be)			93.8		%		80-120	22-NOV-22
Bismuth (Bi)			102.0		%		80-120	22-NOV-22
Boron (B)			90.6		%		80-120	22-NOV-22
Cadmium (Cd)			101.0		%		80-120	22-NOV-22
Calcium (Ca)			101.3		%		80-120	22-NOV-22
Chromium (Cr)			102.3		%		80-120	22-NOV-22
Cobalt (Co)			103.4		%		80-120	22-NOV-22
Copper (Cu)			100.1		%		80-120	22-NOV-22
Iron (Fe)			99.6		%		80-120	22-NOV-22
Lead (Pb)			103.1		%		80-120	22-NOV-22
Lithium (Li)			92.9		%		80-120	22-NOV-22
Magnesium (Mg)			106.3		%		80-120	22-NOV-22
Manganese (Mn)			105.1		%		80-120	22-NOV-22
Molybdenum (Mo)			102.6		%		80-120	22-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5896058								
WG3773599-4 LCS		**1+2**						
Nickel (Ni)			101.8		%		80-120	22-NOV-22
Phosphorus (P)			109.9		%		80-120	22-NOV-22
Potassium (K)			108.9		%		80-120	22-NOV-22
Selenium (Se)			100.3		%		80-120	22-NOV-22
Silver (Ag)			95.1		%		80-120	22-NOV-22
Sodium (Na)			105.0		%		80-120	22-NOV-22
Strontium (Sr)			104.5		%		80-120	22-NOV-22
Sulfur (S)			99.5		%		80-120	22-NOV-22
Thallium (Tl)			101.6		%		80-120	22-NOV-22
Tin (Sn)			102.4		%		80-120	22-NOV-22
Titanium (Ti)			103.0		%		80-120	22-NOV-22
Tungsten (W)			98.0		%		80-120	22-NOV-22
Uranium (U)			97.9		%		80-120	22-NOV-22
Vanadium (V)			106.4		%		80-120	22-NOV-22
Zinc (Zn)			99.3		%		80-120	22-NOV-22
Zirconium (Zr)			97.6		%		80-120	22-NOV-22
WG3773599-1 MB								
Aluminum (Al)			<50		mg/kg		50	22-NOV-22
Antimony (Sb)			<0.10		mg/kg		0.1	22-NOV-22
Arsenic (As)			<0.10		mg/kg		0.1	22-NOV-22
Barium (Ba)			<0.50		mg/kg		0.5	22-NOV-22
Beryllium (Be)			<0.10		mg/kg		0.1	22-NOV-22
Bismuth (Bi)			<0.20		mg/kg		0.2	22-NOV-22
Boron (B)			<5.0		mg/kg		5	22-NOV-22
Cadmium (Cd)			<0.020		mg/kg		0.02	22-NOV-22
Calcium (Ca)			<50		mg/kg		50	22-NOV-22
Chromium (Cr)			<0.50		mg/kg		0.5	22-NOV-22
Cobalt (Co)			<0.10		mg/kg		0.1	22-NOV-22
Copper (Cu)			<0.50		mg/kg		0.5	22-NOV-22
Iron (Fe)			<50		mg/kg		50	22-NOV-22
Lead (Pb)			<0.50		mg/kg		0.5	22-NOV-22
Lithium (Li)			<2.0		mg/kg		2	22-NOV-22
Magnesium (Mg)			<20		mg/kg		20	22-NOV-22
Manganese (Mn)			<1.0		mg/kg		1	22-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5896058								
WG3773599-1 MB								
Molybdenum (Mo)			<0.10		mg/kg		0.1	22-NOV-22
Nickel (Ni)			<0.50		mg/kg		0.5	22-NOV-22
Phosphorus (P)			<50		mg/kg		50	22-NOV-22
Potassium (K)			<100		mg/kg		100	22-NOV-22
Selenium (Se)			<0.20		mg/kg		0.2	22-NOV-22
Silver (Ag)			<0.10		mg/kg		0.1	22-NOV-22
Sodium (Na)			<50		mg/kg		50	22-NOV-22
Strontium (Sr)			<0.50		mg/kg		0.5	22-NOV-22
Sulfur (S)			<1000		mg/kg		1000	22-NOV-22
Thallium (Tl)			<0.050		mg/kg		0.05	22-NOV-22
Tin (Sn)			<2.0		mg/kg		2	22-NOV-22
Titanium (Ti)			<1.0		mg/kg		1	22-NOV-22
Tungsten (W)			<0.50		mg/kg		0.5	22-NOV-22
Uranium (U)			<0.050		mg/kg		0.05	22-NOV-22
Vanadium (V)			<0.20		mg/kg		0.2	22-NOV-22
Zinc (Zn)			<2.0		mg/kg		2	22-NOV-22
Zirconium (Zr)			<1.0		mg/kg		1	22-NOV-22
Batch R5896677								
WG3773764-2 CRM		**WT-SS-2**						
Aluminum (Al)			109.1		%		70-130	23-NOV-22
Antimony (Sb)			87.9		%		70-130	23-NOV-22
Arsenic (As)			98.1		%		70-130	23-NOV-22
Barium (Ba)			98.6		%		70-130	23-NOV-22
Beryllium (Be)			97.8		%		70-130	23-NOV-22
Bismuth (Bi)			0.14		mg/kg		0-0.34	23-NOV-22
Boron (B)			9.6		mg/kg		3.5-13.5	23-NOV-22
Cadmium (Cd)			99.1		%		70-130	23-NOV-22
Calcium (Ca)			98.7		%		70-130	23-NOV-22
Chromium (Cr)			109.0		%		70-130	23-NOV-22
Cobalt (Co)			104.2		%		70-130	23-NOV-22
Copper (Cu)			101.4		%		70-130	23-NOV-22
Iron (Fe)			99.2		%		70-130	23-NOV-22
Lead (Pb)			95.5		%		70-130	23-NOV-22
Lithium (Li)			91.8		%		70-130	23-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5896677								
WG3773764-2 CRM		**WT-SS-2**						
Magnesium (Mg)			102.3		%		70-130	23-NOV-22
Manganese (Mn)			108.8		%		70-130	23-NOV-22
Molybdenum (Mo)			105.8		%		70-130	23-NOV-22
Nickel (Ni)			102.2		%		70-130	23-NOV-22
Phosphorus (P)			102.4		%		70-130	23-NOV-22
Potassium (K)			105.7		%		70-130	23-NOV-22
Selenium (Se)			0.09		mg/kg		0-0.34	23-NOV-22
Silver (Ag)			83.9		%		70-130	23-NOV-22
Sodium (Na)			100.8		%		70-130	23-NOV-22
Strontium (Sr)			94.1		%		70-130	23-NOV-22
Thallium (Tl)			0.077		mg/kg		0.029-0.129	23-NOV-22
Tin (Sn)			96.0		%		70-130	23-NOV-22
Titanium (Ti)			118.7		%		70-130	23-NOV-22
Uranium (U)			91.3		%		70-130	23-NOV-22
Vanadium (V)			106.7		%		70-130	23-NOV-22
Zinc (Zn)			96.5		%		70-130	23-NOV-22
Zirconium (Zr)			98.7		%		70-130	23-NOV-22
WG3773764-4 LCS		**1+2**						
Aluminum (Al)			109.6		%		80-120	23-NOV-22
Antimony (Sb)			102.8		%		80-120	23-NOV-22
Arsenic (As)			109.3		%		80-120	23-NOV-22
Barium (Ba)			101.8		%		80-120	23-NOV-22
Beryllium (Be)			97.0		%		80-120	23-NOV-22
Bismuth (Bi)			99.9		%		80-120	23-NOV-22
Boron (B)			92.9		%		80-120	23-NOV-22
Cadmium (Cd)			106.2		%		80-120	23-NOV-22
Calcium (Ca)			103.0		%		80-120	23-NOV-22
Chromium (Cr)			106.2		%		80-120	23-NOV-22
Cobalt (Co)			107.1		%		80-120	23-NOV-22
Copper (Cu)			103.3		%		80-120	23-NOV-22
Iron (Fe)			99.98		%		80-120	23-NOV-22
Lead (Pb)			100.1		%		80-120	23-NOV-22
Lithium (Li)			94.1		%		80-120	23-NOV-22
Magnesium (Mg)			108.7		%		80-120	23-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5896677								
WG3773764-4 LCS		**1+2**						
Manganese (Mn)			107.1		%		80-120	23-NOV-22
Molybdenum (Mo)			99.2		%		80-120	23-NOV-22
Nickel (Ni)			105.5		%		80-120	23-NOV-22
Phosphorus (P)			115.1		%		80-120	23-NOV-22
Potassium (K)			108.5		%		80-120	23-NOV-22
Selenium (Se)			99.1		%		80-120	23-NOV-22
Silver (Ag)			91.8		%		80-120	23-NOV-22
Sodium (Na)			111.8		%		80-120	23-NOV-22
Strontium (Sr)			99.1		%		80-120	23-NOV-22
Sulfur (S)			93.2		%		80-120	23-NOV-22
Thallium (Tl)			103.5		%		80-120	23-NOV-22
Tin (Sn)			99.7		%		80-120	23-NOV-22
Titanium (Ti)			108.2		%		80-120	23-NOV-22
Tungsten (W)			97.1		%		80-120	23-NOV-22
Uranium (U)			97.5		%		80-120	23-NOV-22
Vanadium (V)			110.4		%		80-120	23-NOV-22
Zinc (Zn)			100.9		%		80-120	23-NOV-22
Zirconium (Zr)			102.8		%		80-120	23-NOV-22
WG3773764-1 MB								
Aluminum (Al)			<50		mg/kg		50	23-NOV-22
Antimony (Sb)			<0.10		mg/kg		0.1	23-NOV-22
Arsenic (As)			<0.10		mg/kg		0.1	23-NOV-22
Barium (Ba)			<0.50		mg/kg		0.5	23-NOV-22
Beryllium (Be)			<0.10		mg/kg		0.1	23-NOV-22
Bismuth (Bi)			<0.20		mg/kg		0.2	23-NOV-22
Boron (B)			<5.0		mg/kg		5	23-NOV-22
Cadmium (Cd)			<0.020		mg/kg		0.02	23-NOV-22
Calcium (Ca)			<50		mg/kg		50	23-NOV-22
Chromium (Cr)			<0.50		mg/kg		0.5	23-NOV-22
Cobalt (Co)			<0.10		mg/kg		0.1	23-NOV-22
Copper (Cu)			<0.50		mg/kg		0.5	23-NOV-22
Iron (Fe)			<50		mg/kg		50	23-NOV-22
Lead (Pb)			<0.50		mg/kg		0.5	23-NOV-22
Lithium (Li)			<2.0		mg/kg		2	23-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5896677								
WG3773764-1 MB								
Magnesium (Mg)			<20		mg/kg		20	23-NOV-22
Manganese (Mn)			<1.0		mg/kg		1	23-NOV-22
Molybdenum (Mo)			<0.10		mg/kg		0.1	23-NOV-22
Nickel (Ni)			<0.50		mg/kg		0.5	23-NOV-22
Phosphorus (P)			<50		mg/kg		50	23-NOV-22
Potassium (K)			<100		mg/kg		100	23-NOV-22
Selenium (Se)			<0.20		mg/kg		0.2	23-NOV-22
Silver (Ag)			<0.10		mg/kg		0.1	23-NOV-22
Sodium (Na)			<50		mg/kg		50	23-NOV-22
Strontium (Sr)			<0.50		mg/kg		0.5	23-NOV-22
Sulfur (S)			<1000		mg/kg		1000	23-NOV-22
Thallium (Tl)			<0.050		mg/kg		0.05	23-NOV-22
Tin (Sn)			<2.0		mg/kg		2	23-NOV-22
Titanium (Ti)			<1.0		mg/kg		1	23-NOV-22
Tungsten (W)			<0.50		mg/kg		0.5	23-NOV-22
Uranium (U)			<0.050		mg/kg		0.05	23-NOV-22
Vanadium (V)			<0.20		mg/kg		0.2	23-NOV-22
Zinc (Zn)			<2.0		mg/kg		2	23-NOV-22
Zirconium (Zr)			<1.0		mg/kg		1	23-NOV-22
MOISTURE-WP	**Soil**							
Batch R5889196								
WG3771840-6 DUP		**L2739445-21**						
Moisture		35.6	36.0		%	1.1	20	08-NOV-22
WG3771840-2 LCS								
Moisture			100.4		%		90-110	08-NOV-22
WG3771840-5 LCS								
Moisture			100.4		%		90-110	08-NOV-22
WG3771840-1 MB								
Moisture			<0.10		%		0.1	08-NOV-22
WG3771840-4 MB								
Moisture			<0.10		%		0.1	08-NOV-22
Batch R5889860								
WG3772051-3 DUP		**L2739445-43**						
Moisture		16.6	17.1		%	3.1	20	09-NOV-22
WG3772051-2 LCS								

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WP	**Soil**							
Batch R5889860								
WG3772051-2 LCS								
Moisture			100.2		%		90-110	09-NOV-22
WG3772051-1 MB								
Moisture			<0.10		%		0.1	09-NOV-22
Batch R5890387								
WG3772220-2 LCS								
Moisture			100.0		%		90-110	10-NOV-22
WG3772220-1 MB								
Moisture			<0.10		%		0.1	10-NOV-22
Batch R5891576								
WG3772540-3 DUP		**L2739445-78**						
Moisture		17.7	17.6		%	0.3	20	14-NOV-22
WG3772540-6 DUP		**L2739445-100**						
Moisture		35.2	36.7		%	4.2	20	14-NOV-22
WG3772540-2 LCS								
Moisture			99.8		%		90-110	14-NOV-22
WG3772540-5 LCS								
Moisture			100.7		%		90-110	14-NOV-22
WG3772540-1 MB								
Moisture			<0.10		%		0.1	14-NOV-22
WG3772540-4 MB								
Moisture			<0.10		%		0.1	14-NOV-22
PAH-CCME-SQGL-WT	**Soil**							
Batch R5890559								
WG3772155-3 DUP		**L2739445-20**						
1-Methylnaphthalene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
2-Methylnaphthalene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
Acenaphthene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
Acenaphthylene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
Acridine		<0.010	<0.010	RPD-NA	ug/g	N/A	50	11-NOV-22
Anthracene		<0.0040	<0.0040	RPD-NA	ug/g	N/A	50	11-NOV-22
Benzo(a)anthracene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	11-NOV-22
Benzo(a)pyrene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
Benzo(b&j)fluoranthene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	11-NOV-22
Benzo(g,h,i)perylene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	11-NOV-22
Benzo(k)fluoranthene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	11-NOV-22
Chrysene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	11-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-SQGL-WT	**Soil**							
Batch R5890559								
WG3772155-3 DUP		**L2739445-20**						
Dibenz(a,h)anthracene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
Fluoroanthene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
Fluorene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
Indeno(1,2,3-cd)pyrene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	11-NOV-22
Naphthalene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
Phenanthrene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
Pyrene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
Quinoline		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	11-NOV-22
WG3772155-2 LCS								
1-Methylnaphthalene			86.5		%		50-140	11-NOV-22
2-Methylnaphthalene			84.4		%		50-140	11-NOV-22
Acenaphthene			84.1		%		50-140	11-NOV-22
Acenaphthylene			90.8		%		50-140	11-NOV-22
Acridine			62.3		%		50-140	11-NOV-22
Anthracene			89.6		%		50-140	11-NOV-22
Benzo(a)anthracene			93.9		%		50-140	11-NOV-22
Benzo(a)pyrene			94.9		%		50-140	11-NOV-22
Benzo(b&j)fluoranthene			88.1		%		50-150	11-NOV-22
Benzo(g,h,i)perylene			82.8		%		50-140	11-NOV-22
Benzo(k)fluoranthene			83.1		%		50-140	11-NOV-22
Chrysene			92.0		%		50-140	11-NOV-22
Dibenz(a,h)anthracene			84.1		%		50-140	11-NOV-22
Fluoroanthene			82.8		%		50-140	11-NOV-22
Fluorene			85.2		%		50-140	11-NOV-22
Indeno(1,2,3-cd)pyrene			91.9		%		50-140	11-NOV-22
Naphthalene			83.1		%		50-140	11-NOV-22
Phenanthrene			81.2		%		50-140	11-NOV-22
Pyrene			83.0		%		50-140	11-NOV-22
Quinoline			67.1		%		50-140	11-NOV-22
WG3772155-1 MB								
1-Methylnaphthalene			<0.0050		ug/g		0.005	11-NOV-22
2-Methylnaphthalene			<0.0050		ug/g		0.005	11-NOV-22
Acenaphthene			<0.0050		ug/g		0.005	11-NOV-22
Acenaphthylene			<0.0050		ug/g		0.005	11-NOV-22
Acridine			<0.010		ug/g		0.01	11-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-SQGL-WT	**Soil**							
Batch R5890559								
WG3772155-1 MB								
Anthracene			<0.0040		ug/g		0.004	11-NOV-22
Benzo(a)anthracene			<0.010		ug/g		0.01	11-NOV-22
Benzo(a)pyrene			<0.0050		ug/g		0.005	11-NOV-22
Benzo(b&j)fluoranthene			<0.010		ug/g		0.01	11-NOV-22
Benzo(g,h,i)perylene			<0.010		ug/g		0.01	11-NOV-22
Benzo(k)fluoranthene			<0.010		ug/g		0.01	11-NOV-22
Chrysene			<0.010		ug/g		0.01	11-NOV-22
Dibenz(a,h)anthracene			<0.0050		ug/g		0.005	11-NOV-22
Fluoroanthene			<0.0050		ug/g		0.005	11-NOV-22
Fluorene			<0.0050		ug/g		0.005	11-NOV-22
Indeno(1,2,3-cd)pyrene			<0.010		ug/g		0.01	11-NOV-22
Naphthalene			<0.0050		ug/g		0.005	11-NOV-22
Phenanthrene			<0.0050		ug/g		0.005	11-NOV-22
Pyrene			<0.0050		ug/g		0.005	11-NOV-22
Quinoline			<0.0050		ug/g		0.005	11-NOV-22
Surrogate: 2-Fluorobiphenyl			86.7		%		60-140	11-NOV-22
Surrogate: d14-Terphenyl			84.4		%		60-140	11-NOV-22
WG3772155-4 MS		**L2739445-20**						
1-Methylnaphthalene			89.9		%		50-150	11-NOV-22
2-Methylnaphthalene			86.8		%		50-150	11-NOV-22
Acenaphthene			87.7		%		50-150	11-NOV-22
Acenaphthylene			96.3		%		50-150	11-NOV-22
Acridine			83.8		%		50-150	11-NOV-22
Anthracene			93.7		%		50-150	11-NOV-22
Benzo(a)anthracene			99.7		%		50-150	11-NOV-22
Benzo(a)pyrene			99.8		%		50-150	11-NOV-22
Benzo(b&j)fluoranthene			92.9		%		50-150	11-NOV-22
Benzo(g,h,i)perylene			81.0		%		50-150	11-NOV-22
Benzo(k)fluoranthene			87.2		%		50-150	11-NOV-22
Chrysene			95.3		%		50-150	11-NOV-22
Dibenz(a,h)anthracene			84.2		%		50-150	11-NOV-22
Fluoroanthene			88.2		%		50-150	11-NOV-22
Fluorene			88.7		%		50-150	11-NOV-22
Indeno(1,2,3-cd)pyrene			94.0		%		50-150	11-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-SQGL-WT	**Soil**							
Batch R5890559								
WG3772155-4 MS		**L2739445-20**						
Naphthalene			85.6		%		50-150	11-NOV-22
Phenanthrene			84.8		%		50-150	11-NOV-22
Pyrene			90.5		%		50-150	11-NOV-22
Quinoline			72.3		%		50-150	11-NOV-22
Batch R5892283								
WG3772156-3 DUP		**L2739445-86**						
1-Methylnaphthalene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
2-Methylnaphthalene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
Acenaphthene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
Acenaphthylene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
Acridine		<0.010	<0.010	RPD-NA	ug/g	N/A	50	16-NOV-22
Anthracene		<0.0040	<0.0040	RPD-NA	ug/g	N/A	50	16-NOV-22
Benzo(a)anthracene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	16-NOV-22
Benzo(a)pyrene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
Benzo(b&j)fluoranthene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	16-NOV-22
Benzo(g,h,i)perylene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	16-NOV-22
Benzo(k)fluoranthene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	16-NOV-22
Chrysene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	16-NOV-22
Dibenz(a,h)anthracene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
Fluoroanthene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
Fluorene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
Indeno(1,2,3-cd)pyrene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	16-NOV-22
Naphthalene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
Phenanthrene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
Pyrene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
Quinoline		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	16-NOV-22
WG3772156-2 LCS								
1-Methylnaphthalene			93.6		%		50-140	16-NOV-22
2-Methylnaphthalene			90.7		%		50-140	16-NOV-22
Acenaphthene			91.4		%		50-140	16-NOV-22
Acenaphthylene			91.3		%		50-140	16-NOV-22
Acridine			60.1		%		50-140	16-NOV-22
Anthracene			94.6		%		50-140	16-NOV-22
Benzo(a)anthracene			98.0		%		50-140	16-NOV-22
Benzo(a)pyrene			103.6		%		50-140	16-NOV-22

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-SQGL-WT	**Soil**							
Batch R5892283								
WG3772156-2 LCS								
Benzo(b&j)fluoranthene			104.1		%		50-150	16-NOV-22
Benzo(g,h,i)perylene			87.1		%		50-140	16-NOV-22
Benzo(k)fluoranthene			98.5		%		50-140	16-NOV-22
Chrysene			101.8		%		50-140	16-NOV-22
Dibenz(a,h)anthracene			94.1		%		50-140	16-NOV-22
Fluoroanthene			90.4		%		50-140	16-NOV-22
Fluorene			93.8		%		50-140	16-NOV-22
Indeno(1,2,3-cd)pyrene			87.9		%		50-140	16-NOV-22
Naphthalene			89.6		%		50-140	16-NOV-22
Phenanthrene			88.1		%		50-140	16-NOV-22
Pyrene			89.4		%		50-140	16-NOV-22
Quinoline			67.7		%		50-140	16-NOV-22
WG3772156-1 MB								
1-Methylnaphthalene			<0.0050		ug/g		0.005	16-NOV-22
2-Methylnaphthalene			<0.0050		ug/g		0.005	16-NOV-22
Acenaphthene			<0.0050		ug/g		0.005	16-NOV-22
Acenaphthylene			<0.0050		ug/g		0.005	16-NOV-22
Acridine			<0.010		ug/g		0.01	16-NOV-22
Anthracene			<0.0040		ug/g		0.004	16-NOV-22
Benzo(a)anthracene			<0.010		ug/g		0.01	16-NOV-22
Benzo(a)pyrene			<0.0050		ug/g		0.005	16-NOV-22
Benzo(b&j)fluoranthene			<0.010		ug/g		0.01	16-NOV-22
Benzo(g,h,i)perylene			<0.010		ug/g		0.01	16-NOV-22
Benzo(k)fluoranthene			<0.010		ug/g		0.01	16-NOV-22
Chrysene			<0.010		ug/g		0.01	16-NOV-22
Dibenz(a,h)anthracene			<0.0050		ug/g		0.005	16-NOV-22
Fluoroanthene			<0.0050		ug/g		0.005	16-NOV-22
Fluorene			<0.0050		ug/g		0.005	16-NOV-22
Indeno(1,2,3-cd)pyrene			<0.010		ug/g		0.01	16-NOV-22
Naphthalene			<0.0050		ug/g		0.005	16-NOV-22
Phenanthrene			<0.0050		ug/g		0.005	16-NOV-22
Pyrene			<0.0050		ug/g		0.005	16-NOV-22
Quinoline			<0.0050		ug/g		0.005	16-NOV-22
Surrogate: 2-Fluorobiphenyl			90.5		%		60-140	16-NOV-22

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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-SQGL-WT	**Soil**							
Batch R5892283								
WG3772156-1 MB								
Surrogate: d14-Terphenyl			91.6		%		60-140	16-NOV-22
WG3772156-4 MS		**L2739445-86**						
1-Methylnaphthalene			86.5		%		50-150	16-NOV-22
2-Methylnaphthalene			84.3		%		50-150	16-NOV-22
Acenaphthene			85.7		%		50-150	16-NOV-22
Acenaphthylene			96.3		%		50-150	16-NOV-22
Acridine			85.4		%		50-150	16-NOV-22
Anthracene			92.3		%		50-150	16-NOV-22
Benzo(a)anthracene			101.1		%		50-150	16-NOV-22
Benzo(a)pyrene			98.3		%		50-150	16-NOV-22
Benzo(b&j)fluoranthene			91.1		%		50-150	16-NOV-22
Benzo(g,h,i)perylene			73.1		%		50-150	16-NOV-22
Benzo(k)fluoranthene			83.3		%		50-150	16-NOV-22
Chrysene			90.9		%		50-150	16-NOV-22
Dibenz(a,h)anthracene			78.9		%		50-150	16-NOV-22
Fluoroanthene			87.4		%		50-150	16-NOV-22
Fluorene			88.4		%		50-150	16-NOV-22
Indeno(1,2,3-cd)pyrene			83.6		%		50-150	16-NOV-22
Naphthalene			83.0		%		50-150	16-NOV-22
Phenanthrene			81.0		%		50-150	16-NOV-22
Pyrene			89.4		%		50-150	16-NOV-22
Quinoline			84.7		%		50-150	16-NOV-22
Batch R5892936								
WG3772772-12 DUP		**L2739445-87**						
1-Methylnaphthalene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
2-Methylnaphthalene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
Acenaphthene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
Acenaphthylene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
Acridine		<0.010	<0.010	RPD-NA	ug/g	N/A	50	21-NOV-22
Anthracene		<0.0040	<0.0040	RPD-NA	ug/g	N/A	50	21-NOV-22
Benzo(a)anthracene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	21-NOV-22
Benzo(a)pyrene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
Benzo(b&j)fluoranthene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	21-NOV-22
Benzo(g,h,i)perylene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	21-NOV-22
Benzo(k)fluoranthene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	21-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-SQGL-WT	**Soil**							
Batch R5892936								
WG3772772-12 DUP		**L2739445-87**						
Chrysene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	21-NOV-22
Dibenz(a,h)anthracene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
Fluoroanthene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
Fluorene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
Indeno(1,2,3-cd)pyrene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	21-NOV-22
Naphthalene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
Phenanthrene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
Pyrene		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
Quinoline		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	21-NOV-22
WG3772772-7 LCS								
1-Methylnaphthalene			91.4		%		50-140	16-NOV-22
2-Methylnaphthalene			88.8		%		50-140	16-NOV-22
Acenaphthene			88.9		%		50-140	16-NOV-22
Acenaphthylene			96.6		%		50-140	16-NOV-22
Acridine			64.4		%		50-140	16-NOV-22
Anthracene			95.8		%		50-140	16-NOV-22
Benzo(a)anthracene			98.9		%		50-140	16-NOV-22
Benzo(a)pyrene			101.9		%		50-140	16-NOV-22
Benzo(b&j)fluoranthene			89.7		%		50-150	16-NOV-22
Benzo(g,h,i)perylene			77.6		%		50-140	16-NOV-22
Benzo(k)fluoranthene			95.6		%		50-140	16-NOV-22
Chrysene			100.7		%		50-140	16-NOV-22
Dibenz(a,h)anthracene			81.1		%		50-140	16-NOV-22
Fluoroanthene			90.1		%		50-140	16-NOV-22
Fluorene			89.7		%		50-140	16-NOV-22
Indeno(1,2,3-cd)pyrene			74.6		%		50-140	16-NOV-22
Naphthalene			88.2		%		50-140	16-NOV-22
Phenanthrene			88.1		%		50-140	16-NOV-22
Pyrene			90.5		%		50-140	16-NOV-22
Quinoline			69.5		%		50-140	16-NOV-22
WG3772772-6 MB								
1-Methylnaphthalene			<0.0050		ug/g		0.005	16-NOV-22
2-Methylnaphthalene			<0.0050		ug/g		0.005	16-NOV-22
Acenaphthene			<0.0050		ug/g		0.005	16-NOV-22
Acenaphthylene			<0.0050		ug/g		0.005	16-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-SQGL-WT	**Soil**							
Batch R5892936								
WG3772772-6 MB								
Acridine			<0.010		ug/g		0.01	16-NOV-22
Anthracene			<0.0040		ug/g		0.004	16-NOV-22
Benzo(a)anthracene			<0.010		ug/g		0.01	16-NOV-22
Benzo(a)pyrene			<0.0050		ug/g		0.005	16-NOV-22
Benzo(b&j)fluoranthene			<0.010		ug/g		0.01	16-NOV-22
Benzo(g,h,i)perylene			<0.010		ug/g		0.01	16-NOV-22
Benzo(k)fluoranthene			<0.010		ug/g		0.01	16-NOV-22
Chrysene			<0.010		ug/g		0.01	16-NOV-22
Dibenz(a,h)anthracene			<0.0050		ug/g		0.005	16-NOV-22
Fluoroanthene			<0.0050		ug/g		0.005	16-NOV-22
Fluorene			<0.0050		ug/g		0.005	16-NOV-22
Indeno(1,2,3-cd)pyrene			<0.010		ug/g		0.01	16-NOV-22
Naphthalene			<0.0050		ug/g		0.005	16-NOV-22
Phenanthrene			<0.0050		ug/g		0.005	16-NOV-22
Pyrene			<0.0050		ug/g		0.005	16-NOV-22
Quinoline			<0.0050		ug/g		0.005	16-NOV-22
Surrogate: 2-Fluorobiphenyl			85.0		%		60-140	16-NOV-22
Surrogate: d14-Terphenyl			85.7		%		60-140	16-NOV-22
WG3772772-13 MS		**L2739445-87**						
1-Methylnaphthalene			92.5		%		50-150	21-NOV-22
2-Methylnaphthalene			90.9		%		50-150	21-NOV-22
Acenaphthene			88.9		%		50-150	21-NOV-22
Acenaphthylene			88.5		%		50-150	21-NOV-22
Acridine			77.3		%		50-150	21-NOV-22
Anthracene			91.3		%		50-150	21-NOV-22
Benzo(a)anthracene			80.8		%		50-150	21-NOV-22
Benzo(a)pyrene			68.5		%		50-150	21-NOV-22
Benzo(b&j)fluoranthene			64.5		%		50-150	21-NOV-22
Benzo(g,h,i)perylene			52.3		%		50-150	21-NOV-22
Benzo(k)fluoranthene			129.4		%		50-150	21-NOV-22
Chrysene			89.5		%		50-150	21-NOV-22
Dibenz(a,h)anthracene			55.2		%		50-150	21-NOV-22
Fluoroanthene			84.7		%		50-150	21-NOV-22
Fluorene			87.5		%		50-150	21-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-SQGL-WT	**Soil**							
Batch R5892936								
WG3772772-13 MS		**L2739445-87**						
Indeno(1,2,3-cd)pyrene			51.0		%		50-150	21-NOV-22
Naphthalene			90.3		%		50-150	21-NOV-22
Phenanthrene			89.0		%		50-150	21-NOV-22
Pyrene			83.7		%		50-150	21-NOV-22
Quinoline			75.3		%		50-150	21-NOV-22
Batch R5895076								
WG3772952-3 DUP		**L2739445-64**						
1-Methylnaphthalene		0.152	0.130		ug/g	15	50	21-NOV-22
2-Methylnaphthalene		0.418	0.340		ug/g	21	50	21-NOV-22
Acenaphthene		0.0860	0.129		ug/g	40	50	21-NOV-22
Acenaphthylene		0.0848	0.0726		ug/g	15	50	21-NOV-22
Acridine		0.120	0.148		ug/g	21	50	21-NOV-22
Anthracene		0.217	0.276		ug/g	24	50	21-NOV-22
Benzo(a)anthracene		0.632	0.668		ug/g	5.6	50	21-NOV-22
Benzo(a)pyrene		1.15	1.02		ug/g	11	50	21-NOV-22
Benzo(b&j)fluoranthene		1.23	1.02		ug/g	18	50	21-NOV-22
Benzo(g,h,i)perylene		0.806	0.700		ug/g	14	50	21-NOV-22
Benzo(k)fluoranthene		0.264	0.299		ug/g	12	50	21-NOV-22
Chrysene		1.03	0.959		ug/g	7.6	50	21-NOV-22
Dibenz(a,h)anthracene		0.173	0.154		ug/g	12	50	21-NOV-22
Fluoroanthene		1.10	1.30		ug/g	17	50	21-NOV-22
Fluorene		0.122	0.175		ug/g	35	50	21-NOV-22
Indeno(1,2,3-cd)pyrene		0.558	0.473		ug/g	16	50	21-NOV-22
Naphthalene		0.249	0.250		ug/g	0.4	50	21-NOV-22
Phenanthrene		0.872	1.16		ug/g	28	50	21-NOV-22
Pyrene		1.90	1.78		ug/g	6.1	50	21-NOV-22
Quinoline		0.0058	0.0070		ug/g	18	50	21-NOV-22
WG3772952-2 LCS								
1-Methylnaphthalene			93.5		%		50-140	21-NOV-22
2-Methylnaphthalene			90.6		%		50-140	21-NOV-22
Acenaphthene			88.6		%		50-140	21-NOV-22
Acenaphthylene			85.0		%		50-140	21-NOV-22
Acridine			51.7		%		50-140	21-NOV-22
Anthracene			97.2		%		50-140	21-NOV-22
Benzo(a)anthracene			87.4		%		50-140	21-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-SQGL-WT	**Soil**							
Batch R5895076								
WG3772952-2 LCS								
Benzo(a)pyrene			102.1		%		50-140	21-NOV-22
Benzo(b&j)fluoranthene			90.1		%		50-150	21-NOV-22
Benzo(g,h,i)perylene			92.5		%		50-140	21-NOV-22
Benzo(k)fluoranthene			99.8		%		50-140	21-NOV-22
Chrysene			107.7		%		50-140	21-NOV-22
Dibenz(a,h)anthracene			93.3		%		50-140	21-NOV-22
Fluoroanthene			91.1		%		50-140	21-NOV-22
Fluorene			86.8		%		50-140	21-NOV-22
Indeno(1,2,3-cd)pyrene			80.3		%		50-140	21-NOV-22
Naphthalene			91.9		%		50-140	21-NOV-22
Phenanthrene			94.5		%		50-140	21-NOV-22
Pyrene			93.2		%		50-140	21-NOV-22
Quinoline			64.7		%		50-140	21-NOV-22
WG3772952-1 MB								
1-Methylnaphthalene			<0.0050		ug/g		0.005	21-NOV-22
2-Methylnaphthalene			<0.0050		ug/g		0.005	21-NOV-22
Acenaphthene			<0.0050		ug/g		0.005	21-NOV-22
Acenaphthylene			<0.0050		ug/g		0.005	21-NOV-22
Acridine			<0.010		ug/g		0.01	21-NOV-22
Anthracene			<0.0040		ug/g		0.004	21-NOV-22
Benzo(a)anthracene			<0.010		ug/g		0.01	21-NOV-22
Benzo(a)pyrene			<0.0050		ug/g		0.005	21-NOV-22
Benzo(b&j)fluoranthene			<0.010		ug/g		0.01	21-NOV-22
Benzo(g,h,i)perylene			<0.010		ug/g		0.01	21-NOV-22
Benzo(k)fluoranthene			<0.010		ug/g		0.01	21-NOV-22
Chrysene			<0.010		ug/g		0.01	21-NOV-22
Dibenz(a,h)anthracene			<0.0050		ug/g		0.005	21-NOV-22
Fluoroanthene			<0.0050		ug/g		0.005	21-NOV-22
Fluorene			<0.0050		ug/g		0.005	21-NOV-22
Indeno(1,2,3-cd)pyrene			<0.010		ug/g		0.01	21-NOV-22
Naphthalene			<0.0050		ug/g		0.005	21-NOV-22
Phenanthrene			<0.0050		ug/g		0.005	21-NOV-22
Pyrene			<0.0050		ug/g		0.005	21-NOV-22
Quinoline			<0.0050		ug/g		0.005	21-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-SQGL-WT	**Soil**							
Batch R5895076								
WG3772952-1 MB								
Surrogate: 2-Fluorobiphenyl			88.3		%		60-140	21-NOV-22
Surrogate: d14-Terphenyl			91.3		%		60-140	21-NOV-22
WG3772952-4 MS		**L2739445-64**						
1-Methylnaphthalene			93.5		%		50-150	21-NOV-22
2-Methylnaphthalene			85.4		%		50-150	21-NOV-22
Acenaphthene			89.2		%		50-150	21-NOV-22
Acenaphthylene			110.8		%		50-150	21-NOV-22
Acridine			96.2		%		50-150	21-NOV-22
Anthracene			86.7		%		50-150	21-NOV-22
Benzo(a)anthracene			67.3		%		50-150	21-NOV-22
Benzo(a)pyrene			N/A	MS-B	%		-	21-NOV-22
Benzo(b&j)fluoranthene			N/A	MS-B	%		-	21-NOV-22
Benzo(g,h,i)perylene			N/A	MS-B	%		-	21-NOV-22
Benzo(k)fluoranthene			68.1		%		50-150	21-NOV-22
Chrysene			N/A	MS-B	%		-	21-NOV-22
Dibenz(a,h)anthracene			67.0		%		50-150	21-NOV-22
Fluoroanthene			N/A	MS-B	%		-	21-NOV-22
Fluorene			103.3		%		50-150	21-NOV-22
Indeno(1,2,3-cd)pyrene			52.9		%		50-150	21-NOV-22
Naphthalene			88.9		%		50-150	21-NOV-22
Phenanthrene			N/A	MS-B	%		-	21-NOV-22
Pyrene			N/A	MS-B	%		-	21-NOV-22
Quinoline			85.9		%		50-150	21-NOV-22
PHENOLS-4AAP-WT	**Soil**							
Batch R5893347								
WG3772831-3 DUP		**L2739445-106**						
Phenols (4AAP)		<0.10	<0.10	RPD-NA	mg/kg	N/A	30	16-NOV-22
WG3772831-2 LCS								
Phenols (4AAP)			100.4		%		80-120	16-NOV-22
WG3772831-1 MB								
Phenols (4AAP)			<0.10		mg/kg		0.1	16-NOV-22
WG3772831-4 MS		**L2739445-106**						
Phenols (4AAP)			92.7		%		70-130	16-NOV-22
PSA-MUST-SK	**Soil**							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PSA-MUST-SK	**Soil**							
Batch R5892116								
WG3772587-1 DUP		**L2739445-47**						
MUST PSA % > 75um		10.5	10.0	J	%	0.6	5	15-NOV-22
WG3772587-2 IRM		**2020-PSA_SOIL**						
MUST PSA % > 75um			43.4		%		37.9-47.9	15-NOV-22
SAR-CALC-SO4-SK	**Soil**							
Batch R5891920								
WG3772138-4 DUP		**L2739445-47**						
Calcium (Ca)		188	190		mg/L	1.3	30	14-NOV-22
Potassium (K)		17.8	18.1		mg/L	1.8	30	14-NOV-22
Magnesium (Mg)		126	132		mg/L	4.1	30	14-NOV-22
Sodium (Na)		118	125		mg/L	5.3	30	14-NOV-22
Sulfur (as SO4)		866	889		mg/L	2.6	30	14-NOV-22
WG3772138-3 IRM		**ALS SAL 2021**						
Calcium (Ca)			120.3		%		70-130	14-NOV-22
Potassium (K)			103.2		%		70-130	14-NOV-22
Magnesium (Mg)			110.2		%		70-130	14-NOV-22
Sodium (Na)			111.9		%		70-130	14-NOV-22
Sulfur (as SO4)			119.7		%		70-130	14-NOV-22
WG3772138-1 MB								
Calcium (Ca)			<5.0		mg/L		5	14-NOV-22
Potassium (K)			<5.0		mg/L		5	14-NOV-22
Magnesium (Mg)			<5.0		mg/L		5	14-NOV-22
Sodium (Na)			<5.0		mg/L		5	14-NOV-22
Sulfur (as SO4)			<5.0		mg/L		5	14-NOV-22
Batch R5894736								
WG3772579-3 IRM		**ALS SAL 2021**						
Calcium (Ca)			106.8		%		70-130	17-NOV-22
Potassium (K)			90.6		%		70-130	17-NOV-22
Magnesium (Mg)			93.6		%		70-130	17-NOV-22
Sodium (Na)			101.5		%		70-130	17-NOV-22
Sulfur (as SO4)			104.4		%		70-130	17-NOV-22
WG3772579-1 MB								
Calcium (Ca)			<5.0		mg/L		5	17-NOV-22
Potassium (K)			<5.0		mg/L		5	17-NOV-22
Magnesium (Mg)			<5.0		mg/L		5	17-NOV-22
Sodium (Na)			<5.0		mg/L		5	17-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-CALC-SO4-SK	**Soil**							
Batch R5894736								
WG3772579-1 MB								
Sulfur (as SO4)			<5.0		mg/L		5	17-NOV-22
SAT/PH/EC-SK	**Soil**							
Batch R5893621								
WG3772579-3 IRM		**ALS SAL 2021**						
% Saturation			103.7		%		80-120	17-NOV-22
pH in Saturated Paste			7.53		pH		7.29-7.89	17-NOV-22
Conductivity Sat. Paste			100.8		%		80-120	17-NOV-22
WG3772579-2 LCS								
% Saturation			101.3		%		80-120	17-NOV-22
pH in Saturated Paste			7.06		pH		6.66-7.06	17-NOV-22
Conductivity Sat. Paste			98.7		%		80-120	17-NOV-22
WG3772579-1 MB								
% Saturation			<1.0		%		1	17-NOV-22
Conductivity Sat. Paste			<0.10		dS m-1		0.1	17-NOV-22
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-3 DUP		**L2739445-46**						
Acetone		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	09-NOV-22
Benzene		<0.0050	<0.0050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Bromobenzene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	09-NOV-22
Bromochloromethane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	09-NOV-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Bromoform		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Bromomethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
n-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
sec-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
tert-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Carbon disulfide		<0.25	<0.25	RPD-NA	mg/kg	N/A	50	09-NOV-22
Carbon Tetrachloride		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Chlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Chloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Chloroform		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Chloromethane		0.075	0.071		mg/kg	5.7	50	09-NOV-22
2-Chlorotoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	09-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-3 DUP		**L2739445-46**						
4-Chlorotoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	09-NOV-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,2-Dibromo-3-chloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Dibromomethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,1-dichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,1-dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
cis-1,2-Dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
trans-1,2-Dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Dichloromethane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,3-Dichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
2,2-Dichloropropane		<0.20	<0.20	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,1-Dichloropropene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
cis-1,3-Dichloropropene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	09-NOV-22
trans-1,3-Dichloropropene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	09-NOV-22
Ethylbenzene		<0.015	<0.015	RPD-NA	mg/kg	N/A	50	09-NOV-22
F1		<10	<10	RPD-NA	mg/kg	N/A	50	09-NOV-22
Hexachlorobutadiene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Hexane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
2-Hexanone (Methyl butyl ketone)		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	09-NOV-22
Isopropylbenzene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	09-NOV-22
4-Isopropyltoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	09-NOV-22
MEK		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	09-NOV-22
MIBK		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	09-NOV-22
MTBE		<0.20	<0.20	RPD-NA	mg/kg	N/A	50	09-NOV-22
Styrene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-3 DUP		**L2739445-46**						
Tetrachloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Toluene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,2,3-Trichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,2,4-Trichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Trichloroethene		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	09-NOV-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,2,3-Trichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,2,4-Trimethylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
1,3,5-Trimethylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
Vinyl Chloride		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
M+P-Xylenes		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
o-Xylene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	09-NOV-22
WG3771859-7 DUP		**L2739445-67**						
Acetone		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
Benzene		<0.0050	<0.0050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromobenzene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromochloromethane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromoform		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromomethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
n-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
sec-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
tert-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Carbon disulfide		<0.25	<0.25	RPD-NA	mg/kg	N/A	50	10-NOV-22
Carbon Tetrachloride		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chloroform		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
2-Chlorotoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
4-Chlorotoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-7 DUP		**L2739445-67**						
1,2-Dibromo-3-chloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dibromomethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1-dichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1-dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
cis-1,2-Dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
trans-1,2-Dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dichloromethane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,3-Dichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
2,2-Dichloropropane		<0.20	<0.20	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1-Dichloropropene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
cis-1,3-Dichloropropene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
trans-1,3-Dichloropropene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Ethylbenzene		<0.015	<0.015	RPD-NA	mg/kg	N/A	50	10-NOV-22
F1		<10	<10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Hexachlorobutadiene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Hexane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
2-Hexanone (Methyl butyl ketone)		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
Isopropylbenzene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
4-Isopropyltoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
MEK		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
MIBK		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
MTBE		<0.20	<0.20	RPD-NA	mg/kg	N/A	50	10-NOV-22
Styrene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Tetrachloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Toluene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-7 DUP		**L2739445-67**						
1,2,3-Trichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,4-Trichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Trichloroethene		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	10-NOV-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,3-Trichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,4-Trimethylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,3,5-Trimethylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Vinyl Chloride		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
M+P-Xylenes		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
o-Xylene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
WG3771859-2 LCS								
Acetone			117.6		%		70-130	09-NOV-22
Benzene			100.2		%		70-130	09-NOV-22
Bromobenzene			92.1		%		70-130	09-NOV-22
Bromochloromethane			118.2		%		70-130	09-NOV-22
Bromodichloromethane			107.5		%		70-130	09-NOV-22
Bromoform			83.2		%		70-130	09-NOV-22
Bromomethane			107.7		%		60-140	09-NOV-22
n-Butylbenzene			88.2		%		70-130	09-NOV-22
sec-Butylbenzene			92.8		%		70-130	09-NOV-22
tert-Butylbenzene			90.0		%		70-130	09-NOV-22
Carbon disulfide			113.1		%		70-130	09-NOV-22
Carbon Tetrachloride			110.8		%		70-130	09-NOV-22
Chlorobenzene			92.7		%		70-130	09-NOV-22
Chloroethane			100.1		%		60-140	09-NOV-22
Chloroform			110.9		%		70-130	09-NOV-22
Chloromethane			114.9		%		60-140	09-NOV-22
2-Chlorotoluene			85.5		%		70-130	09-NOV-22
4-Chlorotoluene			86.3		%		70-130	09-NOV-22
Dibromochloromethane			96.8		%		70-130	09-NOV-22
1,2-Dibromo-3-chloropropane			70.3		%		70-130	09-NOV-22
1,2-Dibromoethane			100.1		%		70-130	09-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-2 LCS								
Dibromomethane			113.4		%		70-130	09-NOV-22
1,2-Dichlorobenzene			88.8		%		70-130	09-NOV-22
1,3-Dichlorobenzene			87.7		%		70-130	09-NOV-22
1,4-Dichlorobenzene			88.2		%		70-130	09-NOV-22
Dichlorodifluoromethane			79.6		%		60-140	09-NOV-22
1,1-dichloroethane			105.9		%		70-130	09-NOV-22
1,2-Dichloroethane			106.7		%		70-130	09-NOV-22
1,1-dichloroethene			104.7		%		70-130	09-NOV-22
cis-1,2-Dichloroethene			100.4		%		70-130	09-NOV-22
trans-1,2-Dichloroethene			108.9		%		70-130	09-NOV-22
Dichloromethane			112.4		%		60-140	09-NOV-22
1,2-Dichloropropane			101.1		%		70-130	09-NOV-22
1,3-Dichloropropane			94.7		%		70-130	09-NOV-22
2,2-Dichloropropane			90.3		%		70-130	09-NOV-22
1,1-Dichloropropene			105.5		%		70-130	09-NOV-22
cis-1,3-Dichloropropene			91.9		%		70-130	09-NOV-22
trans-1,3-Dichloropropene			91.2		%		70-130	09-NOV-22
Ethylbenzene			95.1		%		70-130	09-NOV-22
Hexachlorobutadiene			89.7		%		70-130	09-NOV-22
Hexane			104.8		%		70-130	09-NOV-22
2-Hexanone (Methyl butyl ketone)			89.0		%		70-130	09-NOV-22
Isopropylbenzene			96.9		%		70-130	09-NOV-22
4-Isopropyltoluene			83.8		%		70-130	09-NOV-22
MEK			106.7		%		70-130	09-NOV-22
MIBK			115.1		%		70-130	09-NOV-22
MTBE			86.6		%		70-130	09-NOV-22
Styrene			89.6		%		70-130	09-NOV-22
1,1,1,2-Tetrachloroethane			101.8		%		70-130	09-NOV-22
1,1,2,2-Tetrachloroethane			91.3		%		70-130	09-NOV-22
Tetrachloroethene			110.0		%		70-130	09-NOV-22
Toluene			92.6		%		70-130	09-NOV-22
1,2,3-Trichlorobenzene			83.0		%		70-130	09-NOV-22
1,2,4-Trichlorobenzene			88.4		%		70-130	09-NOV-22
1,1,1-Trichloroethane			107.3		%		70-130	09-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-2 LCS								
1,1,2-Trichloroethane			99.2		%		70-130	09-NOV-22
Trichloroethene			117.5		%		70-130	09-NOV-22
Trichlorofluoromethane			108.9		%		60-140	09-NOV-22
1,2,3-Trichloropropane			90.6		%		70-130	09-NOV-22
1,2,4-Trimethylbenzene			86.9		%		70-130	09-NOV-22
1,3,5-Trimethylbenzene			87.7		%		70-130	09-NOV-22
Vinyl Chloride			103.7		%		60-140	09-NOV-22
M+P-Xylenes			95.9		%		70-130	09-NOV-22
o-Xylene			94.9		%		70-130	09-NOV-22
WG3771859-4 LCS								
F1			101.0		%		70-130	09-NOV-22
WG3771859-6 LCS								
Acetone			115.3		%		70-130	09-NOV-22
Benzene			93.2		%		70-130	09-NOV-22
Bromobenzene			89.6		%		70-130	09-NOV-22
Bromochloromethane			112.0		%		70-130	09-NOV-22
Bromodichloromethane			99.9		%		70-130	09-NOV-22
Bromoform			86.7		%		70-130	09-NOV-22
Bromomethane			98.8		%		60-140	09-NOV-22
n-Butylbenzene			82.5		%		70-130	09-NOV-22
sec-Butylbenzene			87.9		%		70-130	09-NOV-22
tert-Butylbenzene			85.9		%		70-130	09-NOV-22
Carbon disulfide			102.7		%		70-130	09-NOV-22
Carbon Tetrachloride			100.3		%		70-130	09-NOV-22
Chlorobenzene			86.8		%		70-130	09-NOV-22
Chloroethane			93.5		%		60-140	09-NOV-22
Chloroform			102.7		%		70-130	09-NOV-22
Chloromethane			106.8		%		60-140	09-NOV-22
2-Chlorotoluene			82.5		%		70-130	09-NOV-22
4-Chlorotoluene			82.5		%		70-130	09-NOV-22
Dibromochloromethane			91.7		%		70-130	09-NOV-22
1,2-Dibromo-3-chloropropane			84.3		%		70-130	09-NOV-22
1,2-Dibromoethane			95.4		%		70-130	09-NOV-22
Dibromomethane			111.2		%		70-130	09-NOV-22
1,2-Dichlorobenzene			90.0		%		70-130	09-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-6 LCS								
1,3-Dichlorobenzene			85.5		%		70-130	09-NOV-22
1,4-Dichlorobenzene			85.7		%		70-130	09-NOV-22
Dichlorodifluoromethane			73.4		%		60-140	09-NOV-22
1,1-dichloroethane			97.2		%		70-130	09-NOV-22
1,2-Dichloroethane			102.4		%		70-130	09-NOV-22
1,1-dichloroethene			95.5		%		70-130	09-NOV-22
cis-1,2-Dichloroethene			96.9		%		70-130	09-NOV-22
trans-1,2-Dichloroethene			100.8		%		70-130	09-NOV-22
Dichloromethane			104.8		%		60-140	09-NOV-22
1,2-Dichloropropane			96.3		%		70-130	09-NOV-22
1,3-Dichloropropane			93.1		%		70-130	09-NOV-22
2,2-Dichloropropane			80.5		%		70-130	09-NOV-22
1,1-Dichloropropene			95.6		%		70-130	09-NOV-22
cis-1,3-Dichloropropene			87.7		%		70-130	09-NOV-22
trans-1,3-Dichloropropene			78.7		%		70-130	09-NOV-22
Ethylbenzene			87.9		%		70-130	09-NOV-22
Hexachlorobutadiene			88.3		%		70-130	09-NOV-22
Hexane			87.7		%		70-130	09-NOV-22
2-Hexanone (Methyl butyl ketone)			87.1		%		70-130	09-NOV-22
Isopropylbenzene			80.7		%		70-130	09-NOV-22
4-Isopropyltoluene			80.5		%		70-130	09-NOV-22
MEK			102.2		%		70-130	09-NOV-22
MIBK			102.2		%		70-130	09-NOV-22
MTBE			85.5		%		70-130	09-NOV-22
Styrene			83.6		%		70-130	09-NOV-22
1,1,1,2-Tetrachloroethane			95.5		%		70-130	09-NOV-22
1,1,2,2-Tetrachloroethane			97.5		%		70-130	09-NOV-22
Tetrachloroethene			99.2		%		70-130	09-NOV-22
Toluene			82.7		%		70-130	09-NOV-22
1,2,3-Trichlorobenzene			90.9		%		70-130	09-NOV-22
1,2,4-Trichlorobenzene			90.9		%		70-130	09-NOV-22
1,1,1-Trichloroethane			98.7		%		70-130	09-NOV-22
1,1,2-Trichloroethane			93.9		%		70-130	09-NOV-22
Trichloroethene			106.5		%		70-130	09-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-6 LCS								
Trichlorofluoromethane			90.7		%		60-140	09-NOV-22
1,2,3-Trichloropropane			96.5		%		70-130	09-NOV-22
1,2,4-Trimethylbenzene			85.0		%		70-130	09-NOV-22
1,3,5-Trimethylbenzene			83.9		%		70-130	09-NOV-22
Vinyl Chloride			95.7		%		60-140	09-NOV-22
M+P-Xylenes			88.0		%		70-130	09-NOV-22
o-Xylene			87.5		%		70-130	09-NOV-22
WG3771859-8 LCS								
F1			99.3		%		70-130	09-NOV-22
WG3771859-1 MB								
Acetone			<0.50		mg/kg		0.5	09-NOV-22
Benzene			<0.0050		mg/kg		0.005	09-NOV-22
Bromobenzene			<0.10		mg/kg		0.1	09-NOV-22
Bromochloromethane			<0.10		mg/kg		0.1	09-NOV-22
Bromodichloromethane			<0.050		mg/kg		0.05	09-NOV-22
Bromoform			<0.050		mg/kg		0.05	09-NOV-22
Bromomethane			<0.050		mg/kg		0.05	09-NOV-22
n-Butylbenzene			<0.050		mg/kg		0.05	09-NOV-22
sec-Butylbenzene			<0.050		mg/kg		0.05	09-NOV-22
tert-Butylbenzene			<0.050		mg/kg		0.05	09-NOV-22
Carbon disulfide			<0.25		mg/kg		0.25	09-NOV-22
Carbon Tetrachloride			<0.050		mg/kg		0.05	09-NOV-22
Chlorobenzene			<0.050		mg/kg		0.05	09-NOV-22
Chloroethane			<0.050		mg/kg		0.05	09-NOV-22
Chloroform			<0.050		mg/kg		0.05	09-NOV-22
Chloromethane			<0.050		mg/kg		0.05	09-NOV-22
2-Chlorotoluene			<0.10		mg/kg		0.1	09-NOV-22
4-Chlorotoluene			<0.10		mg/kg		0.1	09-NOV-22
Dibromochloromethane			<0.050		mg/kg		0.05	09-NOV-22
1,2-Dibromo-3-chloropropane			<0.050		mg/kg		0.05	09-NOV-22
1,2-Dibromoethane			<0.050		mg/kg		0.05	09-NOV-22
Dibromomethane			<0.050		mg/kg		0.05	09-NOV-22
1,2-Dichlorobenzene			<0.050		mg/kg		0.05	09-NOV-22
1,3-Dichlorobenzene			<0.050		mg/kg		0.05	09-NOV-22
1,4-Dichlorobenzene			<0.050		mg/kg		0.05	09-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-1 MB								
Dichlorodifluoromethane			<0.050		mg/kg		0.05	09-NOV-22
1,1-dichloroethane			<0.050		mg/kg		0.05	09-NOV-22
1,2-Dichloroethane			<0.050		mg/kg		0.05	09-NOV-22
1,1-dichloroethene			<0.050		mg/kg		0.05	09-NOV-22
cis-1,2-Dichloroethene			<0.050		mg/kg		0.05	09-NOV-22
trans-1,2-Dichloroethene			<0.050		mg/kg		0.05	09-NOV-22
Dichloromethane			<0.10		mg/kg		0.1	09-NOV-22
1,2-Dichloropropane			<0.050		mg/kg		0.05	09-NOV-22
1,3-Dichloropropane			<0.050		mg/kg		0.05	09-NOV-22
2,2-Dichloropropane			<0.10		mg/kg		0.1	09-NOV-22
1,1-Dichloropropene			<0.050		mg/kg		0.05	09-NOV-22
cis-1,3-Dichloropropene			<0.050		mg/kg		0.05	09-NOV-22
trans-1,3-Dichloropropene			<0.050		mg/kg		0.05	09-NOV-22
Ethylbenzene			<0.015		mg/kg		0.015	09-NOV-22
F1			<10		mg/kg		10	09-NOV-22
Hexachlorobutadiene			<0.050		mg/kg		0.05	09-NOV-22
Hexane			<0.050		mg/kg		0.05	09-NOV-22
2-Hexanone (Methyl butyl ketone)			<0.50		mg/kg		0.5	09-NOV-22
Isopropylbenzene			<0.10		mg/kg		0.1	09-NOV-22
4-Isopropyltoluene			<0.10		mg/kg		0.1	09-NOV-22
MEK			<0.50		mg/kg		0.5	09-NOV-22
MIBK			<0.50		mg/kg		0.5	09-NOV-22
MTBE			<0.20		mg/kg		0.2	09-NOV-22
Styrene			<0.050		mg/kg		0.05	09-NOV-22
1,1,1,2-Tetrachloroethane			<0.050		mg/kg		0.05	09-NOV-22
1,1,2,2-Tetrachloroethane			<0.050		mg/kg		0.05	09-NOV-22
Tetrachloroethene			<0.050		mg/kg		0.05	09-NOV-22
Toluene			<0.050		mg/kg		0.05	09-NOV-22
1,2,3-Trichlorobenzene			<0.050		mg/kg		0.05	09-NOV-22
1,2,4-Trichlorobenzene			<0.050		mg/kg		0.05	09-NOV-22
1,1,1-Trichloroethane			<0.050		mg/kg		0.05	09-NOV-22
1,1,2-Trichloroethane			<0.050		mg/kg		0.05	09-NOV-22
Trichloroethene			<0.010		mg/kg		0.01	09-NOV-22
Trichlorofluoromethane			<0.050		mg/kg		0.05	09-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-1 MB								
1,2,3-Trichloropropane			<0.050		mg/kg		0.05	09-NOV-22
1,2,4-Trimethylbenzene			<0.050		mg/kg		0.05	09-NOV-22
1,3,5-Trimethylbenzene			<0.050		mg/kg		0.05	09-NOV-22
Vinyl Chloride			<0.050		mg/kg		0.05	09-NOV-22
M+P-Xylenes			<0.050		mg/kg		0.05	09-NOV-22
o-Xylene			<0.050		mg/kg		0.05	09-NOV-22
Surrogate: 1,4-Difluorobenzene (SS)			94.9		%		70-130	09-NOV-22
Surrogate: 3,4-Dichlorotoluene (SS)			88.5		%		70-130	09-NOV-22
Surrogate: 4-Bromofluorobenzene (SS)			92.0		%		70-130	09-NOV-22
WG3771859-5 MB								
Acetone			<0.50		mg/kg		0.5	09-NOV-22
Benzene			<0.0050		mg/kg		0.005	09-NOV-22
Bromobenzene			<0.10		mg/kg		0.1	09-NOV-22
Bromochloromethane			<0.10		mg/kg		0.1	09-NOV-22
Bromodichloromethane			<0.050		mg/kg		0.05	09-NOV-22
Bromoform			<0.050		mg/kg		0.05	09-NOV-22
Bromomethane			<0.050		mg/kg		0.05	09-NOV-22
n-Butylbenzene			<0.050		mg/kg		0.05	09-NOV-22
sec-Butylbenzene			<0.050		mg/kg		0.05	09-NOV-22
tert-Butylbenzene			<0.050		mg/kg		0.05	09-NOV-22
Carbon disulfide			<0.25		mg/kg		0.25	09-NOV-22
Carbon Tetrachloride			<0.050		mg/kg		0.05	09-NOV-22
Chlorobenzene			<0.050		mg/kg		0.05	09-NOV-22
Chloroethane			<0.050		mg/kg		0.05	09-NOV-22
Chloroform			<0.050		mg/kg		0.05	09-NOV-22
Chloromethane			<0.050		mg/kg		0.05	09-NOV-22
2-Chlorotoluene			<0.10		mg/kg		0.1	09-NOV-22
4-Chlorotoluene			<0.10		mg/kg		0.1	09-NOV-22
Dibromochloromethane			<0.050		mg/kg		0.05	09-NOV-22
1,2-Dibromo-3-chloropropane			<0.050		mg/kg		0.05	09-NOV-22
1,2-Dibromoethane			<0.050		mg/kg		0.05	09-NOV-22
Dibromomethane			<0.050		mg/kg		0.05	09-NOV-22
1,2-Dichlorobenzene			<0.050		mg/kg		0.05	09-NOV-22
1,3-Dichlorobenzene			<0.050		mg/kg		0.05	09-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-5 MB								
1,4-Dichlorobenzene			<0.050		mg/kg		0.05	09-NOV-22
Dichlorodifluoromethane			<0.050		mg/kg		0.05	09-NOV-22
1,1-dichloroethane			<0.050		mg/kg		0.05	09-NOV-22
1,2-Dichloroethane			<0.050		mg/kg		0.05	09-NOV-22
1,1-dichloroethene			<0.050		mg/kg		0.05	09-NOV-22
cis-1,2-Dichloroethene			<0.050		mg/kg		0.05	09-NOV-22
trans-1,2-Dichloroethene			<0.050		mg/kg		0.05	09-NOV-22
Dichloromethane			<0.10		mg/kg		0.1	09-NOV-22
1,2-Dichloropropane			<0.050		mg/kg		0.05	09-NOV-22
1,3-Dichloropropane			<0.050		mg/kg		0.05	09-NOV-22
2,2-Dichloropropane			<0.10		mg/kg		0.1	09-NOV-22
1,1-Dichloropropene			<0.050		mg/kg		0.05	09-NOV-22
cis-1,3-Dichloropropene			<0.050		mg/kg		0.05	09-NOV-22
trans-1,3-Dichloropropene			<0.050		mg/kg		0.05	09-NOV-22
Ethylbenzene			<0.015		mg/kg		0.015	09-NOV-22
F1			<10		mg/kg		10	09-NOV-22
Hexachlorobutadiene			<0.050		mg/kg		0.05	09-NOV-22
Hexane			<0.050		mg/kg		0.05	09-NOV-22
2-Hexanone (Methyl butyl ketone)			<0.50		mg/kg		0.5	09-NOV-22
Isopropylbenzene			<0.10		mg/kg		0.1	09-NOV-22
4-Isopropyltoluene			<0.10		mg/kg		0.1	09-NOV-22
MEK			<0.50		mg/kg		0.5	09-NOV-22
MIBK			<0.50		mg/kg		0.5	09-NOV-22
MTBE			<0.20		mg/kg		0.2	09-NOV-22
Styrene			<0.050		mg/kg		0.05	09-NOV-22
1,1,1,2-Tetrachloroethane			<0.050		mg/kg		0.05	09-NOV-22
1,1,2,2-Tetrachloroethane			<0.050		mg/kg		0.05	09-NOV-22
Tetrachloroethene			<0.050		mg/kg		0.05	09-NOV-22
Toluene			<0.050		mg/kg		0.05	09-NOV-22
1,2,3-Trichlorobenzene			<0.050		mg/kg		0.05	09-NOV-22
1,2,4-Trichlorobenzene			<0.050		mg/kg		0.05	09-NOV-22
1,1,1-Trichloroethane			<0.050		mg/kg		0.05	09-NOV-22
1,1,2-Trichloroethane			<0.050		mg/kg		0.05	09-NOV-22
Trichloroethene			<0.010		mg/kg		0.01	09-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5891876								
WG3771859-5 MB								
Trichlorofluoromethane			<0.050		mg/kg		0.05	09-NOV-22
1,2,3-Trichloropropane			<0.050		mg/kg		0.05	09-NOV-22
1,2,4-Trimethylbenzene			<0.050		mg/kg		0.05	09-NOV-22
1,3,5-Trimethylbenzene			<0.050		mg/kg		0.05	09-NOV-22
Vinyl Chloride			<0.050		mg/kg		0.05	09-NOV-22
M+P-Xylenes			<0.050		mg/kg		0.05	09-NOV-22
o-Xylene			<0.050		mg/kg		0.05	09-NOV-22
Surrogate: 1,4-Difluorobenzene (SS)			102.2		%		70-130	09-NOV-22
Surrogate: 3,4-Dichlorotoluene (SS)			87.4		%		70-130	09-NOV-22
Surrogate: 4-Bromofluorobenzene (SS)			98.1		%		70-130	09-NOV-22
Batch R5892567								
WG3771751-7 DUP		**L2739445-25**						
Acetone		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
Benzene		<0.0050	<0.0050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromobenzene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromochloromethane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromoform		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromomethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
n-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
sec-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
tert-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Carbon disulfide		<0.25	<0.25	RPD-NA	mg/kg	N/A	50	10-NOV-22
Carbon Tetrachloride		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chloroform		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
2-Chlorotoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
4-Chlorotoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dibromo-3-chloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dibromomethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3771751-7 DUP		**L2739445-25**						
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1-dichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1-dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
cis-1,2-Dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
trans-1,2-Dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dichloromethane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,3-Dichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
2,2-Dichloropropane		<0.20	<0.20	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1-Dichloropropene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
cis-1,3-Dichloropropene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
trans-1,3-Dichloropropene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Ethylbenzene		<0.015	<0.015	RPD-NA	mg/kg	N/A	50	10-NOV-22
F1		<10	<10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Hexachlorobutadiene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Hexane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
2-Hexanone (Methyl butyl ketone)		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
Isopropylbenzene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
4-Isopropyltoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
MEK		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
MIBK		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
MTBE		<0.20	<0.20	RPD-NA	mg/kg	N/A	50	10-NOV-22
Styrene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Tetrachloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Toluene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,3-Trichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,4-Trichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3771751-7 DUP		**L2739445-25**						
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Trichloroethene		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	10-NOV-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,3-Trichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,4-Trimethylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,3,5-Trimethylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Vinyl Chloride		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
M+P-Xylenes		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
o-Xylene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
WG3772072-3 DUP		**L2739445-89**						
Acetone		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	11-NOV-22
Benzene		<0.0050	<0.0050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Bromobenzene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	11-NOV-22
Bromochloromethane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	11-NOV-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Bromoform		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Bromomethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
n-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
sec-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
tert-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Carbon disulfide		<0.25	<0.25	RPD-NA	mg/kg	N/A	50	11-NOV-22
Carbon Tetrachloride		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Chlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Chloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Chloroform		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Chloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
2-Chlorotoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	11-NOV-22
4-Chlorotoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	11-NOV-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,2-Dibromo-3-chloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Dibromomethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3772072-3 DUP		**L2739445-89**						
1,4-Dichlorobenzene		0.100	0.099		mg/kg	1.5	50	11-NOV-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,1-dichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,1-dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
cis-1,2-Dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
trans-1,2-Dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Dichloromethane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,3-Dichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
2,2-Dichloropropane		<0.20	<0.20	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,1-Dichloropropene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
cis-1,3-Dichloropropene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	11-NOV-22
trans-1,3-Dichloropropene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	11-NOV-22
Ethylbenzene		<0.015	<0.015	RPD-NA	mg/kg	N/A	50	11-NOV-22
F1		<10	<10	RPD-NA	mg/kg	N/A	50	11-NOV-22
Hexachlorobutadiene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Hexane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
2-Hexanone (Methyl butyl ketone)		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	11-NOV-22
Isopropylbenzene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	11-NOV-22
4-Isopropyltoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	11-NOV-22
MEK		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	11-NOV-22
MIBK		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	11-NOV-22
MTBE		<0.20	<0.20	RPD-NA	mg/kg	N/A	50	11-NOV-22
Styrene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Tetrachloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Toluene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,2,3-Trichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,2,4-Trichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Trichloroethene		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	11-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3772072-3 DUP		**L2739445-89**						
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,2,3-Trichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,2,4-Trimethylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
1,3,5-Trimethylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
Vinyl Chloride		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
M+P-Xylenes		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
o-Xylene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	11-NOV-22
WG3771751-6 LCS								
Acetone			102.9		%		70-130	10-NOV-22
Benzene			102.0		%		70-130	10-NOV-22
Bromobenzene			98.5		%		70-130	10-NOV-22
Bromochloromethane			124.1		%		70-130	10-NOV-22
Bromodichloromethane			110.2		%		70-130	10-NOV-22
Bromoform			95.4		%		70-130	10-NOV-22
Bromomethane			103.2		%		60-140	10-NOV-22
n-Butylbenzene			94.4		%		70-130	10-NOV-22
sec-Butylbenzene			102.4		%		70-130	10-NOV-22
tert-Butylbenzene			94.8		%		70-130	10-NOV-22
Carbon disulfide			112.0		%		70-130	10-NOV-22
Carbon Tetrachloride			116.5		%		70-130	10-NOV-22
Chlorobenzene			87.8		%		70-130	10-NOV-22
Chloroethane			103.9		%		60-140	10-NOV-22
Chloroform			114.6		%		70-130	10-NOV-22
Chloromethane			121.6		%		60-140	10-NOV-22
2-Chlorotoluene			89.7		%		70-130	10-NOV-22
4-Chlorotoluene			90.6		%		70-130	10-NOV-22
Dibromochloromethane			102.1		%		70-130	10-NOV-22
1,2-Dibromo-3-chloropropane			84.5		%		70-130	10-NOV-22
1,2-Dibromoethane			98.9		%		70-130	10-NOV-22
Dibromomethane			115.2		%		70-130	10-NOV-22
1,2-Dichlorobenzene			95.9		%		70-130	10-NOV-22
1,3-Dichlorobenzene			94.0		%		70-130	10-NOV-22
1,4-Dichlorobenzene			95.3		%		70-130	10-NOV-22
Dichlorodifluoromethane			77.3		%		60-140	10-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3771751-6 LCS								
1,1-dichloroethane			104.2		%		70-130	10-NOV-22
1,2-Dichloroethane			112.6		%		70-130	10-NOV-22
1,1-dichloroethene			101.8		%		70-130	10-NOV-22
cis-1,2-Dichloroethene			101.3		%		70-130	10-NOV-22
trans-1,2-Dichloroethene			108.5		%		70-130	10-NOV-22
Dichloromethane			118.6		%		60-140	10-NOV-22
1,2-Dichloropropane			99.7		%		70-130	10-NOV-22
1,3-Dichloropropane			92.6		%		70-130	10-NOV-22
2,2-Dichloropropane			89.5		%		70-130	10-NOV-22
1,1-Dichloropropene			99.7		%		70-130	10-NOV-22
cis-1,3-Dichloropropene			87.4		%		70-130	10-NOV-22
trans-1,3-Dichloropropene			87.9		%		70-130	10-NOV-22
Ethylbenzene			90.0		%		70-130	10-NOV-22
Hexachlorobutadiene			97.3		%		70-130	10-NOV-22
Hexane			98.5		%		70-130	10-NOV-22
2-Hexanone (Methyl butyl ketone)			85.1		%		70-130	10-NOV-22
Isopropylbenzene			92.1		%		70-130	10-NOV-22
4-Isopropyltoluene			87.7		%		70-130	10-NOV-22
MEK			107.9		%		70-130	10-NOV-22
MIBK			103.2		%		70-130	10-NOV-22
MTBE			86.2		%		70-130	10-NOV-22
Styrene			83.5		%		70-130	10-NOV-22
1,1,1,2-Tetrachloroethane			101.2		%		70-130	10-NOV-22
1,1,2,2-Tetrachloroethane			104.6		%		70-130	10-NOV-22
Tetrachloroethene			114.1		%		70-130	10-NOV-22
Toluene			87.1		%		70-130	10-NOV-22
1,2,3-Trichlorobenzene			96.7		%		70-130	10-NOV-22
1,2,4-Trichlorobenzene			100.4		%		70-130	10-NOV-22
1,1,1-Trichloroethane			105.1		%		70-130	10-NOV-22
1,1,2-Trichloroethane			97.9		%		70-130	10-NOV-22
Trichloroethene			124.2		%		70-130	10-NOV-22
Trichlorofluoromethane			108.0		%		60-140	10-NOV-22
1,2,3-Trichloropropane			104.9		%		70-130	10-NOV-22
1,2,4-Trimethylbenzene			93.6		%		70-130	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3771751-6 LCS								
1,3,5-Trimethylbenzene			94.1		%		70-130	10-NOV-22
Vinyl Chloride			105.3		%		60-140	10-NOV-22
M+P-Xylenes			94.4		%		70-130	10-NOV-22
o-Xylene			89.6		%		70-130	10-NOV-22
WG3771751-8 LCS								
F1			91.8		%		70-130	10-NOV-22
WG3772072-2 LCS								
Acetone			101.4		%		70-130	10-NOV-22
Benzene			92.4		%		70-130	10-NOV-22
Bromobenzene			91.6		%		70-130	10-NOV-22
Bromochloromethane			112.3		%		70-130	10-NOV-22
Bromodichloromethane			98.8		%		70-130	10-NOV-22
Bromoform			89.0		%		70-130	10-NOV-22
Bromomethane			94.1		%		60-140	10-NOV-22
n-Butylbenzene			90.2		%		70-130	10-NOV-22
sec-Butylbenzene			97.5		%		70-130	10-NOV-22
tert-Butylbenzene			90.7		%		70-130	10-NOV-22
Carbon disulfide			98.8		%		70-130	10-NOV-22
Carbon Tetrachloride			107.5		%		70-130	10-NOV-22
Chlorobenzene			82.8		%		70-130	10-NOV-22
Chloroethane			95.6		%		60-140	10-NOV-22
Chloroform			102.3		%		70-130	10-NOV-22
Chloromethane			115.2		%		60-140	10-NOV-22
2-Chlorotoluene			85.3		%		70-130	10-NOV-22
4-Chlorotoluene			82.5		%		70-130	10-NOV-22
Dibromochloromethane			95.2		%		70-130	10-NOV-22
1,2-Dibromo-3-chloropropane			76.6		%		70-130	10-NOV-22
1,2-Dibromoethane			90.9		%		70-130	10-NOV-22
Dibromomethane			115.8		%		70-130	10-NOV-22
1,2-Dichlorobenzene			88.7		%		70-130	10-NOV-22
1,3-Dichlorobenzene			86.9		%		70-130	10-NOV-22
1,4-Dichlorobenzene			88.9		%		70-130	10-NOV-22
Dichlorodifluoromethane			73.0		%		60-140	10-NOV-22
1,1-dichloroethane			95.5		%		70-130	10-NOV-22
1,2-Dichloroethane			96.7		%		70-130	10-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3772072-2 LCS								
1,1-dichloroethene			96.6		%		70-130	10-NOV-22
cis-1,2-Dichloroethene			92.9		%		70-130	10-NOV-22
trans-1,2-Dichloroethene			96.1		%		70-130	10-NOV-22
Dichloromethane			105.1		%		60-140	10-NOV-22
1,2-Dichloropropane			89.2		%		70-130	10-NOV-22
1,3-Dichloropropane			84.8		%		70-130	10-NOV-22
2,2-Dichloropropane			86.1		%		70-130	10-NOV-22
1,1-Dichloropropene			91.8		%		70-130	10-NOV-22
cis-1,3-Dichloropropene			80.1		%		70-130	10-NOV-22
trans-1,3-Dichloropropene			77.1		%		70-130	10-NOV-22
Ethylbenzene			87.4		%		70-130	10-NOV-22
Hexachlorobutadiene			93.6		%		70-130	10-NOV-22
Hexane			94.6		%		70-130	10-NOV-22
2-Hexanone (Methyl butyl ketone)			75.6		%		70-130	10-NOV-22
Isopropylbenzene			89.0		%		70-130	10-NOV-22
4-Isopropyltoluene			83.7		%		70-130	10-NOV-22
MEK			95.0		%		70-130	10-NOV-22
MIBK			95.2		%		70-130	10-NOV-22
MTBE			86.1		%		70-130	10-NOV-22
Styrene			80.1		%		70-130	10-NOV-22
1,1,1,2-Tetrachloroethane			96.7		%		70-130	10-NOV-22
1,1,2,2-Tetrachloroethane			94.0		%		70-130	10-NOV-22
Tetrachloroethene			108.6		%		70-130	10-NOV-22
Toluene			84.0		%		70-130	10-NOV-22
1,2,3-Trichlorobenzene			88.9		%		70-130	10-NOV-22
1,2,4-Trichlorobenzene			91.5		%		70-130	10-NOV-22
1,1,1-Trichloroethane			96.9		%		70-130	10-NOV-22
1,1,2-Trichloroethane			89.6		%		70-130	10-NOV-22
Trichloroethene			114.4		%		70-130	10-NOV-22
Trichlorofluoromethane			107.5		%		60-140	10-NOV-22
1,2,3-Trichloropropane			95.1		%		70-130	10-NOV-22
1,2,4-Trimethylbenzene			88.6		%		70-130	10-NOV-22
1,3,5-Trimethylbenzene			88.4		%		70-130	10-NOV-22
Vinyl Chloride			102.5		%		60-140	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3772072-2 LCS								
M+P-Xylenes			89.5		%		70-130	10-NOV-22
o-Xylene			85.9		%		70-130	10-NOV-22
WG3772072-4 LCS								
F1			95.5		%		70-130	10-NOV-22
WG3771751-5 MB								
Acetone			<0.50		mg/kg		0.5	10-NOV-22
Benzene			<0.0050		mg/kg		0.005	10-NOV-22
Bromobenzene			<0.10		mg/kg		0.1	10-NOV-22
Bromochloromethane			<0.10		mg/kg		0.1	10-NOV-22
Bromodichloromethane			<0.050		mg/kg		0.05	10-NOV-22
Bromoform			<0.050		mg/kg		0.05	10-NOV-22
Bromomethane			<0.050		mg/kg		0.05	10-NOV-22
n-Butylbenzene			<0.050		mg/kg		0.05	10-NOV-22
sec-Butylbenzene			<0.050		mg/kg		0.05	10-NOV-22
tert-Butylbenzene			<0.050		mg/kg		0.05	10-NOV-22
Carbon disulfide			<0.25		mg/kg		0.25	10-NOV-22
Carbon Tetrachloride			<0.050		mg/kg		0.05	10-NOV-22
Chlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
Chloroethane			<0.050		mg/kg		0.05	10-NOV-22
Chloroform			<0.050		mg/kg		0.05	10-NOV-22
Chloromethane			<0.050		mg/kg		0.05	10-NOV-22
2-Chlorotoluene			<0.10		mg/kg		0.1	10-NOV-22
4-Chlorotoluene			<0.10		mg/kg		0.1	10-NOV-22
Dibromochloromethane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dibromo-3-chloropropane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dibromoethane			<0.050		mg/kg		0.05	10-NOV-22
Dibromomethane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,3-Dichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,4-Dichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
Dichlorodifluoromethane			<0.050		mg/kg		0.05	10-NOV-22
1,1-dichloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dichloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,1-dichloroethene			<0.050		mg/kg		0.05	10-NOV-22
cis-1,2-Dichloroethene			<0.050		mg/kg		0.05	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3771751-5 MB								
trans-1,2-Dichloroethene			<0.050		mg/kg		0.05	10-NOV-22
Dichloromethane			<0.10		mg/kg		0.1	10-NOV-22
1,2-Dichloropropane			<0.050		mg/kg		0.05	10-NOV-22
1,3-Dichloropropane			<0.050		mg/kg		0.05	10-NOV-22
2,2-Dichloropropane			<0.10		mg/kg		0.1	10-NOV-22
1,1-Dichloropropene			<0.050		mg/kg		0.05	10-NOV-22
cis-1,3-Dichloropropene			<0.050		mg/kg		0.05	10-NOV-22
trans-1,3-Dichloropropene			<0.050		mg/kg		0.05	10-NOV-22
Ethylbenzene			<0.015		mg/kg		0.015	10-NOV-22
F1			<10		mg/kg		10	10-NOV-22
Hexachlorobutadiene			<0.050		mg/kg		0.05	10-NOV-22
Hexane			<0.050		mg/kg		0.05	10-NOV-22
2-Hexanone (Methyl butyl ketone)			<0.50		mg/kg		0.5	10-NOV-22
Isopropylbenzene			<0.10		mg/kg		0.1	10-NOV-22
4-Isopropyltoluene			<0.10		mg/kg		0.1	10-NOV-22
MEK			<0.50		mg/kg		0.5	10-NOV-22
MIBK			<0.50		mg/kg		0.5	10-NOV-22
MTBE			<0.20		mg/kg		0.2	10-NOV-22
Styrene			<0.050		mg/kg		0.05	10-NOV-22
1,1,1,2-Tetrachloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,1,2,2-Tetrachloroethane			<0.050		mg/kg		0.05	10-NOV-22
Tetrachloroethene			<0.050		mg/kg		0.05	10-NOV-22
Toluene			<0.050		mg/kg		0.05	10-NOV-22
1,2,3-Trichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,2,4-Trichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,1,1-Trichloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,1,2-Trichloroethane			<0.050		mg/kg		0.05	10-NOV-22
Trichloroethene			<0.010		mg/kg		0.01	10-NOV-22
Trichlorofluoromethane			<0.050		mg/kg		0.05	10-NOV-22
1,2,3-Trichloropropane			<0.050		mg/kg		0.05	10-NOV-22
1,2,4-Trimethylbenzene			<0.050		mg/kg		0.05	10-NOV-22
1,3,5-Trimethylbenzene			<0.050		mg/kg		0.05	10-NOV-22
Vinyl Chloride			<0.050		mg/kg		0.05	10-NOV-22
M+P-Xylenes			<0.050		mg/kg		0.05	10-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3771751-5 MB								
o-Xylene			<0.050		mg/kg		0.05	10-NOV-22
Surrogate: 1,4-Difluorobenzene (SS)			109.6		%		70-130	10-NOV-22
Surrogate: 3,4-Dichlorotoluene (SS)			91.2		%		70-130	10-NOV-22
Surrogate: 4-Bromofluorobenzene (SS)			106.2		%		70-130	10-NOV-22
WG3772072-1 MB								
Acetone			<0.50		mg/kg		0.5	10-NOV-22
Benzene			<0.0050		mg/kg		0.005	10-NOV-22
Bromobenzene			<0.10		mg/kg		0.1	10-NOV-22
Bromochloromethane			<0.10		mg/kg		0.1	10-NOV-22
Bromodichloromethane			<0.050		mg/kg		0.05	10-NOV-22
Bromoform			<0.050		mg/kg		0.05	10-NOV-22
Bromomethane			<0.050		mg/kg		0.05	10-NOV-22
n-Butylbenzene			<0.050		mg/kg		0.05	10-NOV-22
sec-Butylbenzene			<0.050		mg/kg		0.05	10-NOV-22
tert-Butylbenzene			<0.050		mg/kg		0.05	10-NOV-22
Carbon disulfide			<0.25		mg/kg		0.25	10-NOV-22
Carbon Tetrachloride			<0.050		mg/kg		0.05	10-NOV-22
Chlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
Chloroethane			<0.050		mg/kg		0.05	10-NOV-22
Chloroform			<0.050		mg/kg		0.05	10-NOV-22
Chloromethane			<0.050		mg/kg		0.05	10-NOV-22
2-Chlorotoluene			<0.10		mg/kg		0.1	10-NOV-22
4-Chlorotoluene			<0.10		mg/kg		0.1	10-NOV-22
Dibromochloromethane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dibromo-3-chloropropane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dibromoethane			<0.050		mg/kg		0.05	10-NOV-22
Dibromomethane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,3-Dichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,4-Dichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
Dichlorodifluoromethane			<0.050		mg/kg		0.05	10-NOV-22
1,1-dichloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dichloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,1-dichloroethene			<0.050		mg/kg		0.05	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3772072-1 MB								
cis-1,2-Dichloroethene			<0.050		mg/kg		0.05	10-NOV-22
trans-1,2-Dichloroethene			<0.050		mg/kg		0.05	10-NOV-22
Dichloromethane			<0.10		mg/kg		0.1	10-NOV-22
1,2-Dichloropropane			<0.050		mg/kg		0.05	10-NOV-22
1,3-Dichloropropane			<0.050		mg/kg		0.05	10-NOV-22
2,2-Dichloropropane			<0.10		mg/kg		0.1	10-NOV-22
1,1-Dichloropropene			<0.050		mg/kg		0.05	10-NOV-22
cis-1,3-Dichloropropene			<0.050		mg/kg		0.05	10-NOV-22
trans-1,3-Dichloropropene			<0.050		mg/kg		0.05	10-NOV-22
Ethylbenzene			<0.015		mg/kg		0.015	10-NOV-22
F1			<10		mg/kg		10	10-NOV-22
Hexachlorobutadiene			<0.050		mg/kg		0.05	10-NOV-22
Hexane			<0.050		mg/kg		0.05	10-NOV-22
2-Hexanone (Methyl butyl ketone)			<0.50		mg/kg		0.5	10-NOV-22
Isopropylbenzene			<0.10		mg/kg		0.1	10-NOV-22
4-Isopropyltoluene			<0.10		mg/kg		0.1	10-NOV-22
MEK			<0.50		mg/kg		0.5	10-NOV-22
MIBK			<0.50		mg/kg		0.5	10-NOV-22
MTBE			<0.20		mg/kg		0.2	10-NOV-22
Styrene			<0.050		mg/kg		0.05	10-NOV-22
1,1,1,2-Tetrachloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,1,2,2-Tetrachloroethane			<0.050		mg/kg		0.05	10-NOV-22
Tetrachloroethene			<0.050		mg/kg		0.05	10-NOV-22
Toluene			<0.050		mg/kg		0.05	10-NOV-22
1,2,3-Trichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,2,4-Trichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,1,1-Trichloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,1,2-Trichloroethane			<0.050		mg/kg		0.05	10-NOV-22
Trichloroethene			<0.010		mg/kg		0.01	10-NOV-22
Trichlorofluoromethane			<0.050		mg/kg		0.05	10-NOV-22
1,2,3-Trichloropropane			<0.050		mg/kg		0.05	10-NOV-22
1,2,4-Trimethylbenzene			<0.050		mg/kg		0.05	10-NOV-22
1,3,5-Trimethylbenzene			<0.050		mg/kg		0.05	10-NOV-22
Vinyl Chloride			<0.050		mg/kg		0.05	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892567								
WG3772072-1 MB								
M+P-Xylenes			<0.050		mg/kg		0.05	10-NOV-22
o-Xylene			<0.050		mg/kg		0.05	10-NOV-22
Surrogate: 1,4-Difluorobenzene (SS)			98.8		%		70-130	10-NOV-22
Surrogate: 3,4-Dichlorotoluene (SS)			83.7		%		70-130	10-NOV-22
Surrogate: 4-Bromofluorobenzene (SS)			92.6		%		70-130	10-NOV-22
Batch R5892757								
WG3771751-3 DUP		**L2739445-1**						
Acetone		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
Benzene		<0.0050	<0.0050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromobenzene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromochloromethane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromodichloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromoform		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Bromomethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
n-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
sec-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
tert-Butylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Carbon disulfide		<0.25	<0.25	RPD-NA	mg/kg	N/A	50	10-NOV-22
Carbon Tetrachloride		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chloroform		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Chloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
2-Chlorotoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
4-Chlorotoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dibromochloromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dibromo-3-chloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dibromomethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1-dichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892757								
WG3771751-3 DUP		**L2739445-1**						
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1-dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
cis-1,2-Dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
trans-1,2-Dichloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Dichloromethane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,3-Dichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
2,2-Dichloropropane		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1-Dichloropropene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
cis-1,3-Dichloropropene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
trans-1,3-Dichloropropene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Ethylbenzene		<0.015	<0.015	RPD-NA	mg/kg	N/A	50	10-NOV-22
F1		<10	<10	RPD-NA	mg/kg	N/A	50	10-NOV-22
Hexachlorobutadiene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Hexane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
2-Hexanone (Methyl butyl ketone)		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
Isopropylbenzene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
4-Isopropyltoluene		<0.10	<0.10	RPD-NA	mg/kg	N/A	50	10-NOV-22
MEK		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
MIBK		<0.50	<0.50	RPD-NA	mg/kg	N/A	50	10-NOV-22
MTBE		<0.20	<0.20	RPD-NA	mg/kg	N/A	50	10-NOV-22
Styrene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Tetrachloroethene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Toluene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,3-Trichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,4-Trichlorobenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Trichloroethene		<0.010	<0.010	RPD-NA	mg/kg	N/A	50	10-NOV-22
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,3-Trichloropropane		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
1,2,4-Trimethylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892757								
WG3771751-3 DUP		**L2739445-1**						
1,3,5-Trimethylbenzene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
Vinyl Chloride		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
M+P-Xylenes		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
o-Xylene		<0.050	<0.050	RPD-NA	mg/kg	N/A	50	10-NOV-22
WG3771751-2 LCS								
Acetone			93.2		%		70-130	10-NOV-22
Benzene			90.4		%		70-130	10-NOV-22
Bromobenzene			84.5		%		70-130	10-NOV-22
Bromochloromethane			92.2		%		70-130	10-NOV-22
Bromodichloromethane			89.3		%		70-130	10-NOV-22
Bromoform			75.5		%		70-130	10-NOV-22
Bromomethane			94.1		%		60-140	10-NOV-22
n-Butylbenzene			78.7		%		70-130	10-NOV-22
sec-Butylbenzene			86.9		%		70-130	10-NOV-22
tert-Butylbenzene			79.8		%		70-130	10-NOV-22
Carbon disulfide			101.0		%		70-130	10-NOV-22
Carbon Tetrachloride			91.2		%		70-130	10-NOV-22
Chlorobenzene			85.7		%		70-130	10-NOV-22
Chloroethane			82.1		%		60-140	10-NOV-22
Chloroform			101.8		%		70-130	10-NOV-22
Chloromethane			85.2		%		60-140	10-NOV-22
2-Chlorotoluene			76.0		%		70-130	10-NOV-22
4-Chlorotoluene			83.0		%		70-130	10-NOV-22
Dibromochloromethane			70.6		%		70-130	10-NOV-22
1,2-Dibromo-3-chloropropane			75.8		%		70-130	10-NOV-22
1,2-Dibromoethane			80.6		%		70-130	10-NOV-22
Dibromomethane			103.7		%		70-130	10-NOV-22
1,2-Dichlorobenzene			84.3		%		70-130	10-NOV-22
1,3-Dichlorobenzene			83.4		%		70-130	10-NOV-22
1,4-Dichlorobenzene			81.0		%		70-130	10-NOV-22
Dichlorodifluoromethane			69.1		%		60-140	10-NOV-22
1,1-dichloroethane			99.4		%		70-130	10-NOV-22
1,2-Dichloroethane			98.8		%		70-130	10-NOV-22
1,1-dichloroethene			96.7		%		70-130	10-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892757								
WG3771751-2 LCS								
cis-1,2-Dichloroethene			96.1		%		70-130	10-NOV-22
trans-1,2-Dichloroethene			101.6		%		70-130	10-NOV-22
Dichloromethane			106.4		%		60-140	10-NOV-22
1,2-Dichloropropane			83.9		%		70-130	10-NOV-22
1,3-Dichloropropane			83.7		%		70-130	10-NOV-22
2,2-Dichloropropane			90.5		%		70-130	10-NOV-22
1,1-Dichloropropene			96.0		%		70-130	10-NOV-22
cis-1,3-Dichloropropene			73.1		%		70-130	10-NOV-22
trans-1,3-Dichloropropene			76.0		%		70-130	10-NOV-22
Ethylbenzene			74.8		%		70-130	10-NOV-22
Hexachlorobutadiene			97.2		%		70-130	10-NOV-22
Hexane			90.8		%		70-130	10-NOV-22
2-Hexanone (Methyl butyl ketone)			76.7		%		70-130	10-NOV-22
Isopropylbenzene			83.9		%		70-130	10-NOV-22
4-Isopropyltoluene			74.0		%		70-130	10-NOV-22
MEK			90.1		%		70-130	10-NOV-22
MIBK			82.4		%		70-130	10-NOV-22
MTBE			88.3		%		70-130	10-NOV-22
Styrene			74.3		%		70-130	10-NOV-22
1,1,1,2-Tetrachloroethane			76.1		%		70-130	10-NOV-22
1,1,2,2-Tetrachloroethane			83.2		%		70-130	10-NOV-22
Tetrachloroethene			96.2		%		70-130	10-NOV-22
Toluene			75.5		%		70-130	10-NOV-22
1,2,3-Trichlorobenzene			88.3		%		70-130	10-NOV-22
1,2,4-Trichlorobenzene			85.8		%		70-130	10-NOV-22
1,1,1-Trichloroethane			95.7		%		70-130	10-NOV-22
1,1,2-Trichloroethane			83.8		%		70-130	10-NOV-22
Trichloroethene			98.5		%		70-130	10-NOV-22
Trichlorofluoromethane			95.4		%		60-140	10-NOV-22
1,2,3-Trichloropropane			84.9		%		70-130	10-NOV-22
1,2,4-Trimethylbenzene			75.5		%		70-130	10-NOV-22
1,3,5-Trimethylbenzene			78.7		%		70-130	10-NOV-22
Vinyl Chloride			78.3		%		60-140	10-NOV-22
M+P-Xylenes			83.6		%		70-130	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892757								
WG3771751-2 LCS								
o-Xylene			75.6		%		70-130	10-NOV-22
WG3771751-4 LCS								
F1			107.1		%		70-130	10-NOV-22
WG3771751-1 MB								
Acetone			<0.50		mg/kg		0.5	10-NOV-22
Benzene			<0.0050		mg/kg		0.005	10-NOV-22
Bromobenzene			<0.10		mg/kg		0.1	10-NOV-22
Bromochloromethane			<0.10		mg/kg		0.1	10-NOV-22
Bromodichloromethane			<0.050		mg/kg		0.05	10-NOV-22
Bromoform			<0.050		mg/kg		0.05	10-NOV-22
Bromomethane			<0.050		mg/kg		0.05	10-NOV-22
n-Butylbenzene			<0.050		mg/kg		0.05	10-NOV-22
sec-Butylbenzene			<0.050		mg/kg		0.05	10-NOV-22
tert-Butylbenzene			<0.050		mg/kg		0.05	10-NOV-22
Carbon disulfide			<0.25		mg/kg		0.25	10-NOV-22
Carbon Tetrachloride			<0.050		mg/kg		0.05	10-NOV-22
Chlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
Chloroethane			<0.050		mg/kg		0.05	10-NOV-22
Chloroform			<0.050		mg/kg		0.05	10-NOV-22
Chloromethane			<0.050		mg/kg		0.05	10-NOV-22
2-Chlorotoluene			<0.10		mg/kg		0.1	10-NOV-22
4-Chlorotoluene			<0.10		mg/kg		0.1	10-NOV-22
Dibromochloromethane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dibromo-3-chloropropane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dibromoethane			<0.050		mg/kg		0.05	10-NOV-22
Dibromomethane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,3-Dichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,4-Dichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
Dichlorodifluoromethane			<0.050		mg/kg		0.05	10-NOV-22
1,1-dichloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,2-Dichloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,1-dichloroethene			<0.050		mg/kg		0.05	10-NOV-22
cis-1,2-Dichloroethene			<0.050		mg/kg		0.05	10-NOV-22
trans-1,2-Dichloroethene			<0.050		mg/kg		0.05	10-NOV-22

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892757								
WG3771751-1 MB								
Dichloromethane			<0.10		mg/kg		0.1	10-NOV-22
1,2-Dichloropropane			<0.050		mg/kg		0.05	10-NOV-22
1,3-Dichloropropane			<0.050		mg/kg		0.05	10-NOV-22
2,2-Dichloropropane			<0.10		mg/kg		0.1	10-NOV-22
1,1-Dichloropropene			<0.050		mg/kg		0.05	10-NOV-22
cis-1,3-Dichloropropene			<0.050		mg/kg		0.05	10-NOV-22
trans-1,3-Dichloropropene			<0.050		mg/kg		0.05	10-NOV-22
Ethylbenzene			<0.015		mg/kg		0.015	10-NOV-22
F1			<10		mg/kg		10	10-NOV-22
Hexachlorobutadiene			<0.050		mg/kg		0.05	10-NOV-22
Hexane			<0.050		mg/kg		0.05	10-NOV-22
2-Hexanone (Methyl butyl ketone)			<0.50		mg/kg		0.5	10-NOV-22
Isopropylbenzene			<0.10		mg/kg		0.1	10-NOV-22
4-Isopropyltoluene			<0.10		mg/kg		0.1	10-NOV-22
MEK			<0.50		mg/kg		0.5	10-NOV-22
MIBK			<0.50		mg/kg		0.5	10-NOV-22
MTBE			<0.20		mg/kg		0.2	10-NOV-22
Styrene			<0.050		mg/kg		0.05	10-NOV-22
1,1,1,2-Tetrachloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,1,2,2-Tetrachloroethane			<0.050		mg/kg		0.05	10-NOV-22
Tetrachloroethene			<0.050		mg/kg		0.05	10-NOV-22
Toluene			<0.050		mg/kg		0.05	10-NOV-22
1,2,3-Trichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,2,4-Trichlorobenzene			<0.050		mg/kg		0.05	10-NOV-22
1,1,1-Trichloroethane			<0.050		mg/kg		0.05	10-NOV-22
1,1,2-Trichloroethane			<0.050		mg/kg		0.05	10-NOV-22
Trichloroethene			<0.010		mg/kg		0.01	10-NOV-22
Trichlorofluoromethane			<0.050		mg/kg		0.05	10-NOV-22
1,2,3-Trichloropropane			<0.050		mg/kg		0.05	10-NOV-22
1,2,4-Trimethylbenzene			<0.050		mg/kg		0.05	10-NOV-22
1,3,5-Trimethylbenzene			<0.050		mg/kg		0.05	10-NOV-22
Vinyl Chloride			<0.050		mg/kg		0.05	10-NOV-22
M+P-Xylenes			<0.050		mg/kg		0.05	10-NOV-22
o-Xylene			<0.050		mg/kg		0.05	10-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Soil**							
Batch R5892757								
WG3771751-1 MB								
Surrogate: 1,4-Difluorobenzene (SS)			104.4		%		70-130	10-NOV-22
Surrogate: 3,4-Dichlorotoluene (SS)			110.1		%		70-130	10-NOV-22
Surrogate: 4-Bromofluorobenzene (SS)			99.8		%		70-130	10-NOV-22

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
DLDS	Detection Limit Raised: Dilution required due to high Dissolved Solids / Electrical Conductivity.
J	Duplicate results and limits are expressed in terms of absolute difference.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Hydrocarbons							
CCME Gravimetric Heavy Hydrocarbons							
	99	03-NOV-22	18-NOV-22 09:10	14	15	days	EHT
	100	03-NOV-22	18-NOV-22 09:10	14	15	days	EHT
	102	03-NOV-22	18-NOV-22 09:10	14	15	days	EHT
	105	03-NOV-22	18-NOV-22 09:10	14	15	days	EHT

Legend & Qualifier Definitions:

EHTR-FM:	Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR:	Exceeded ALS recommended hold time prior to sample receipt.
EHTL:	Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT:	Exceeded ALS recommended hold time prior to analysis.
Rec. HT:	ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2739445 were received on 07-NOV-22 08:00.

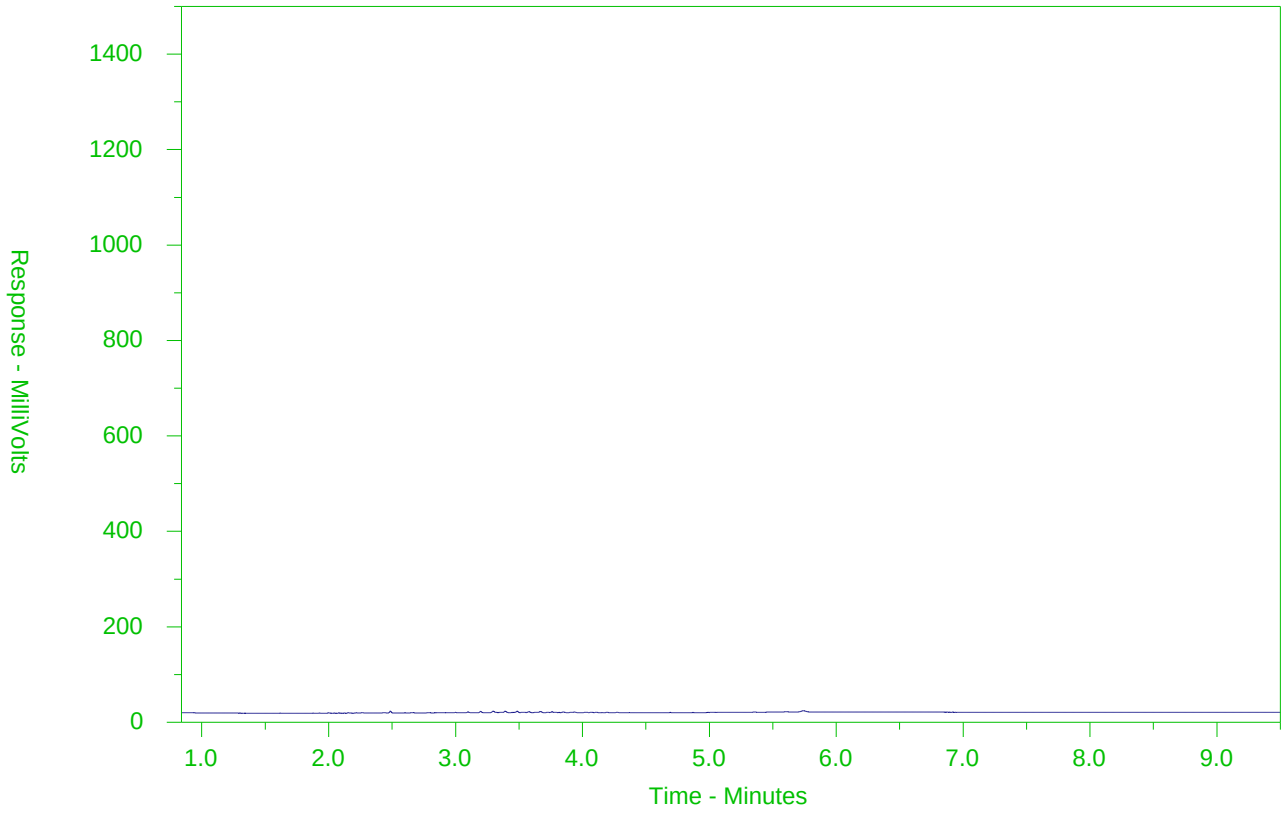
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

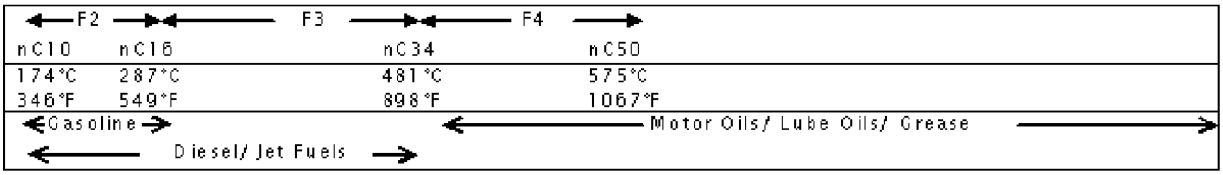
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-1
Client Sample ID: BH22-01 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

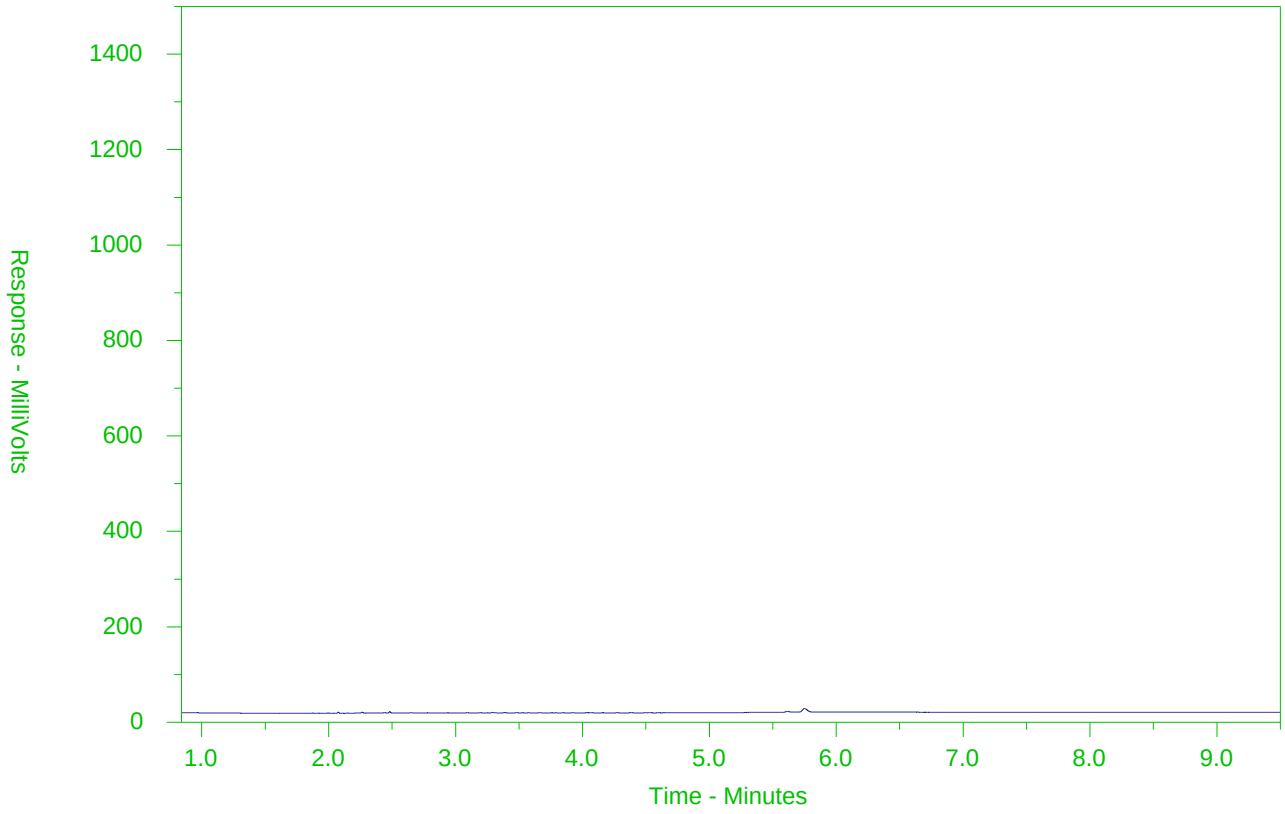
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

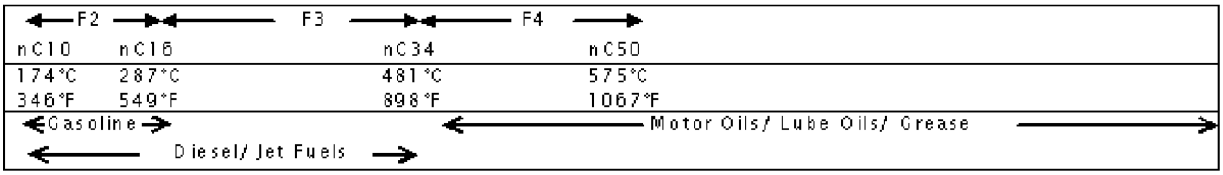
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-2
Client Sample ID: BH22-01 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

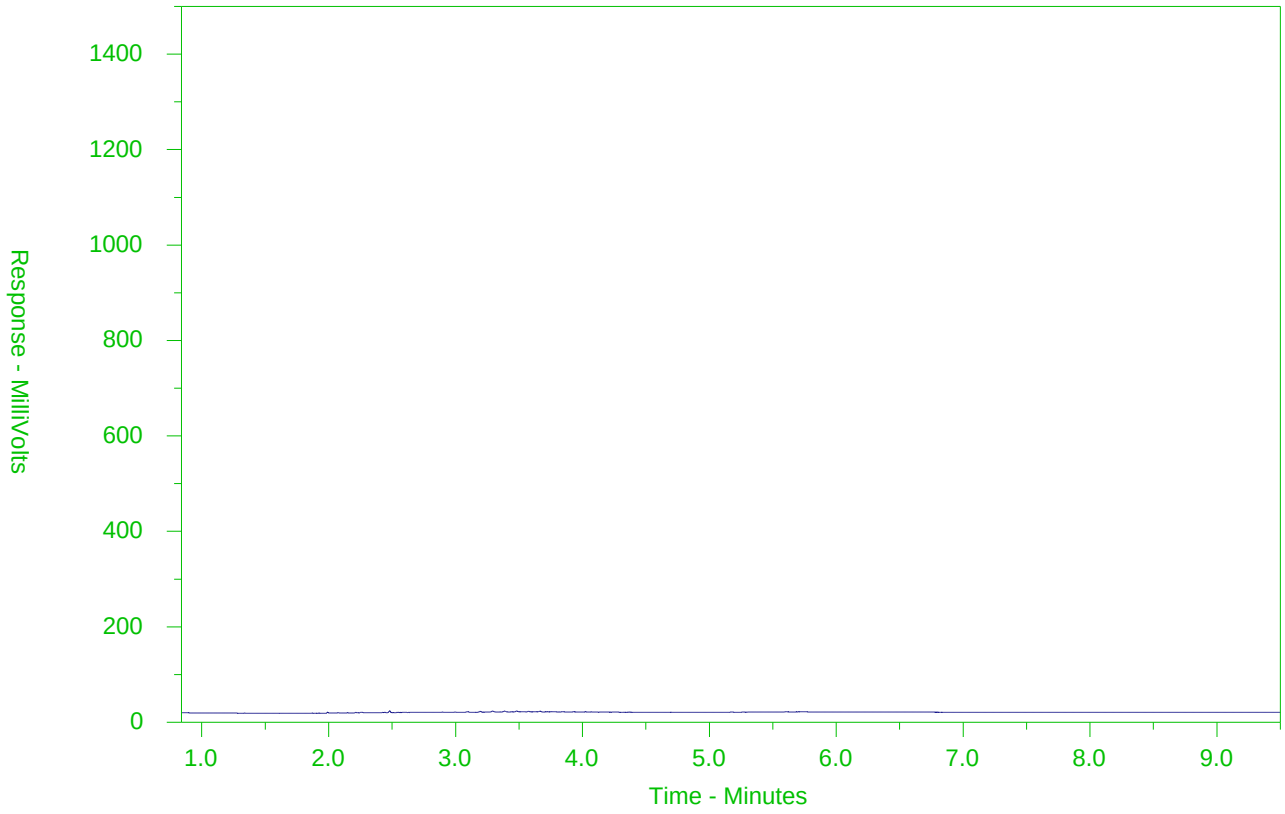
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

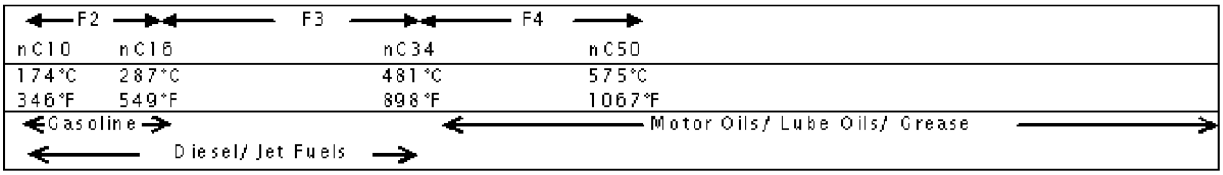
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-3
Client Sample ID: BH22-01 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

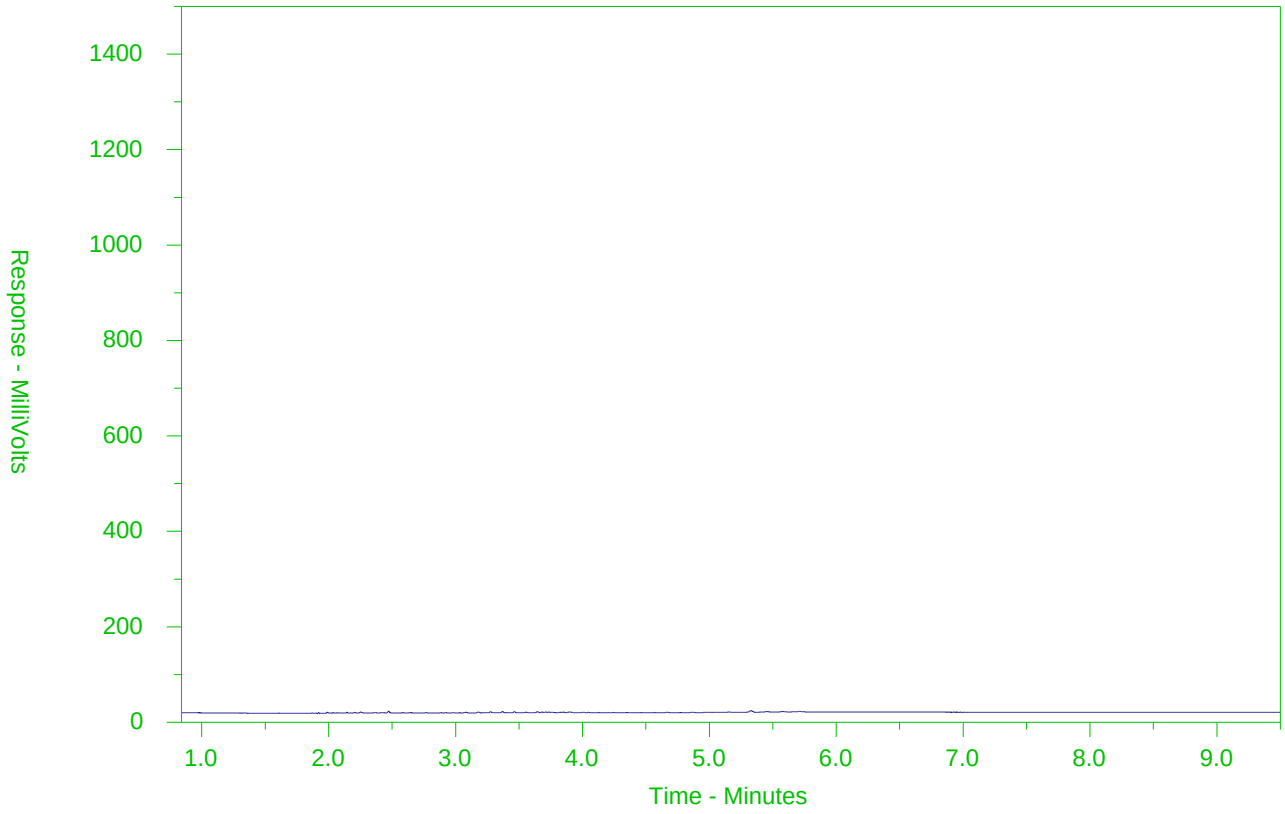
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

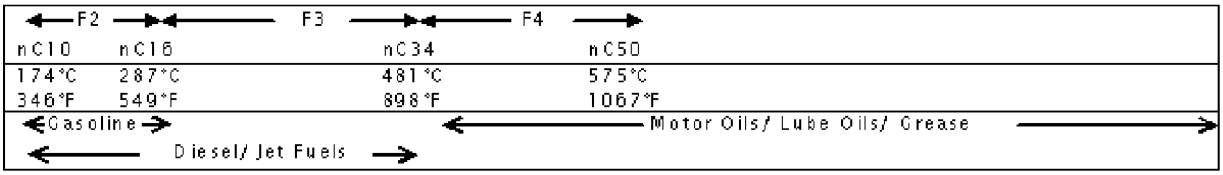
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-5
Client Sample ID: BH22-03 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

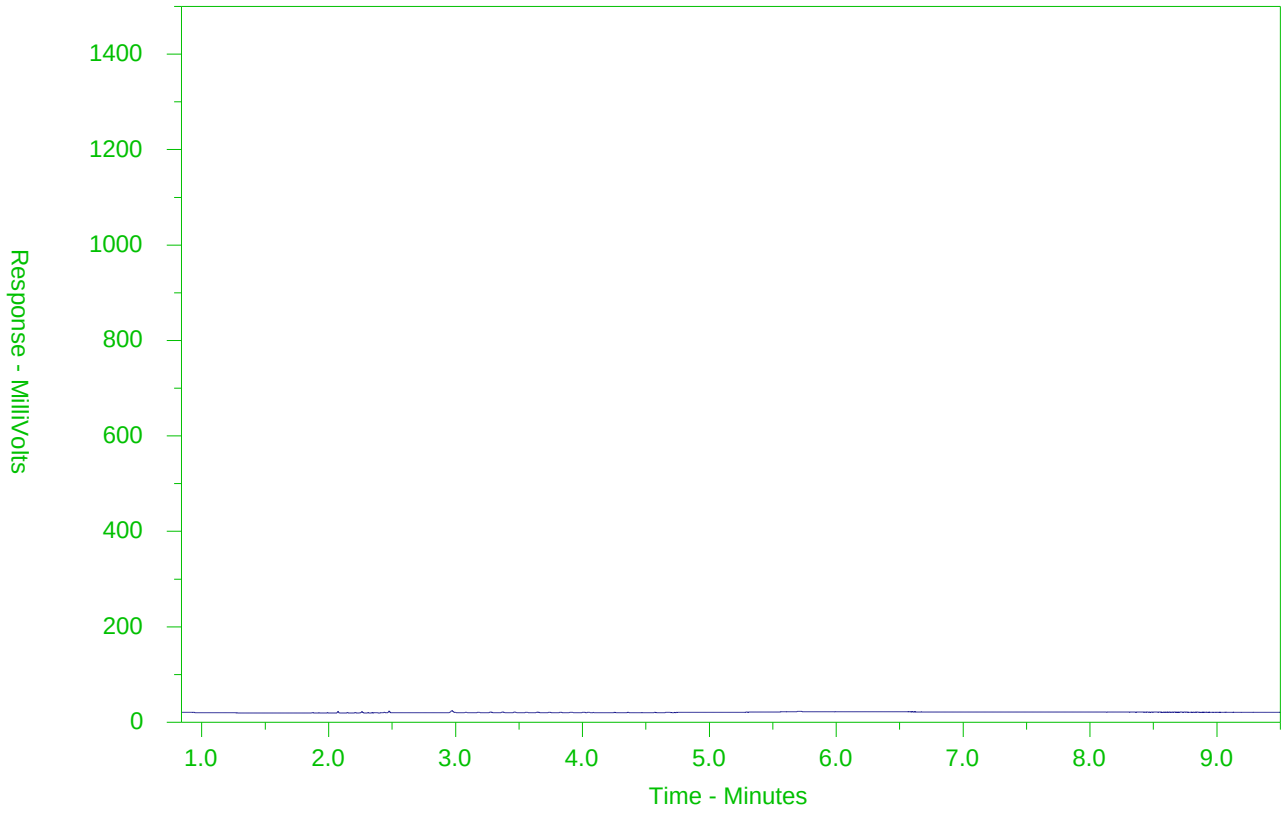
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

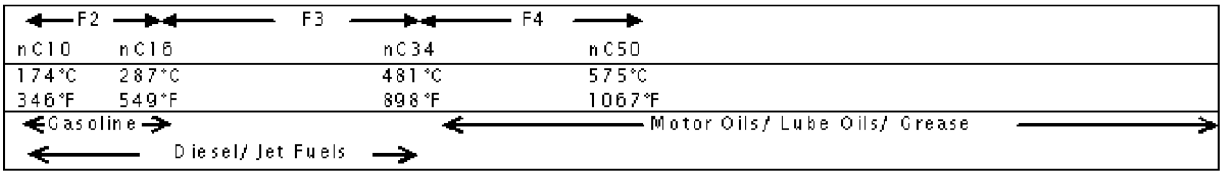
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-6
Client Sample ID: BH22-03 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

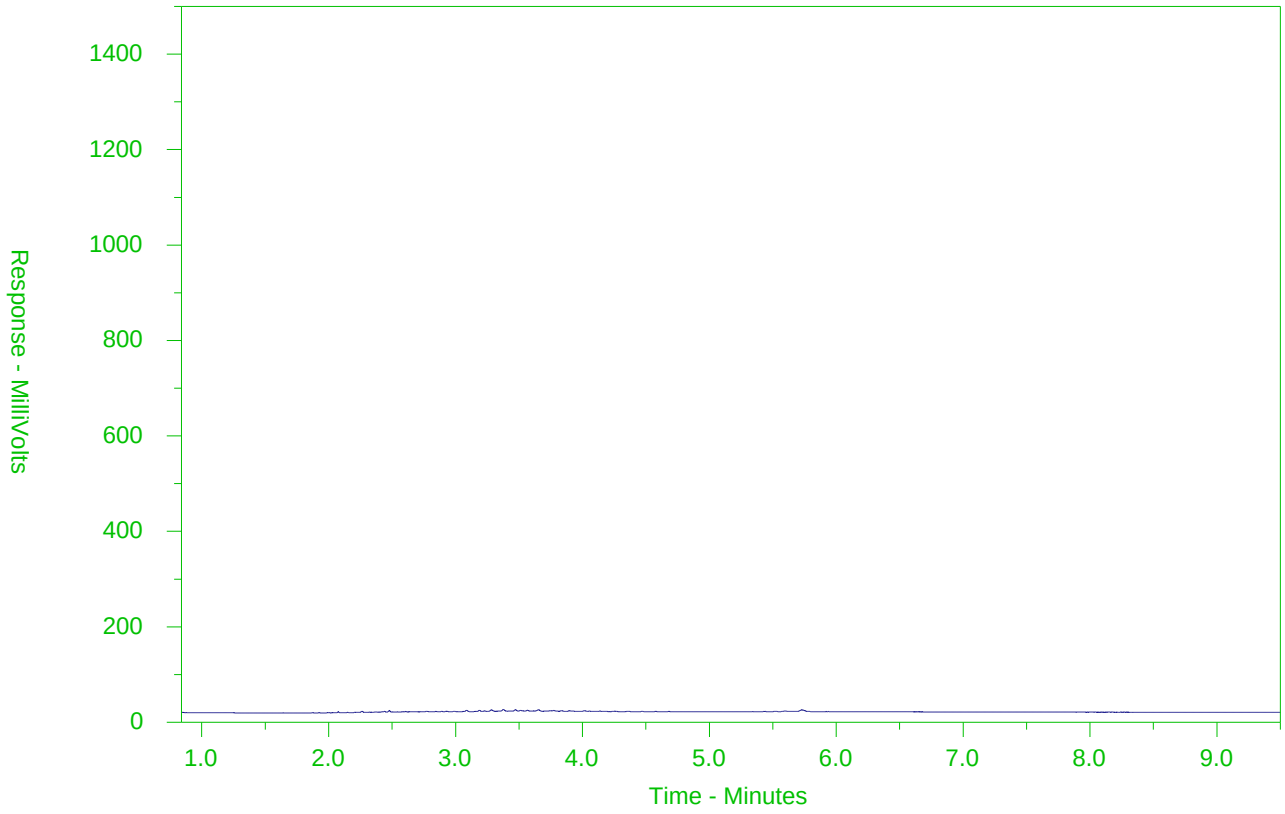
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

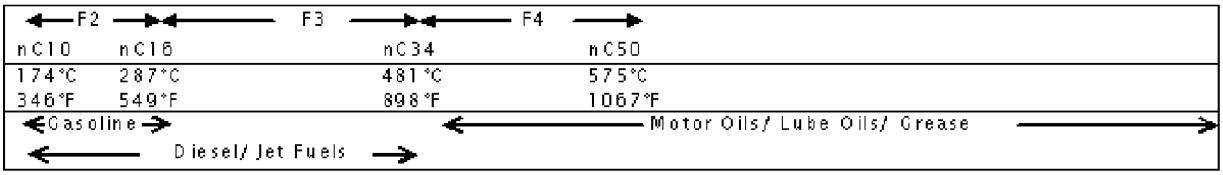
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-7
Client Sample ID: BH22-03 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

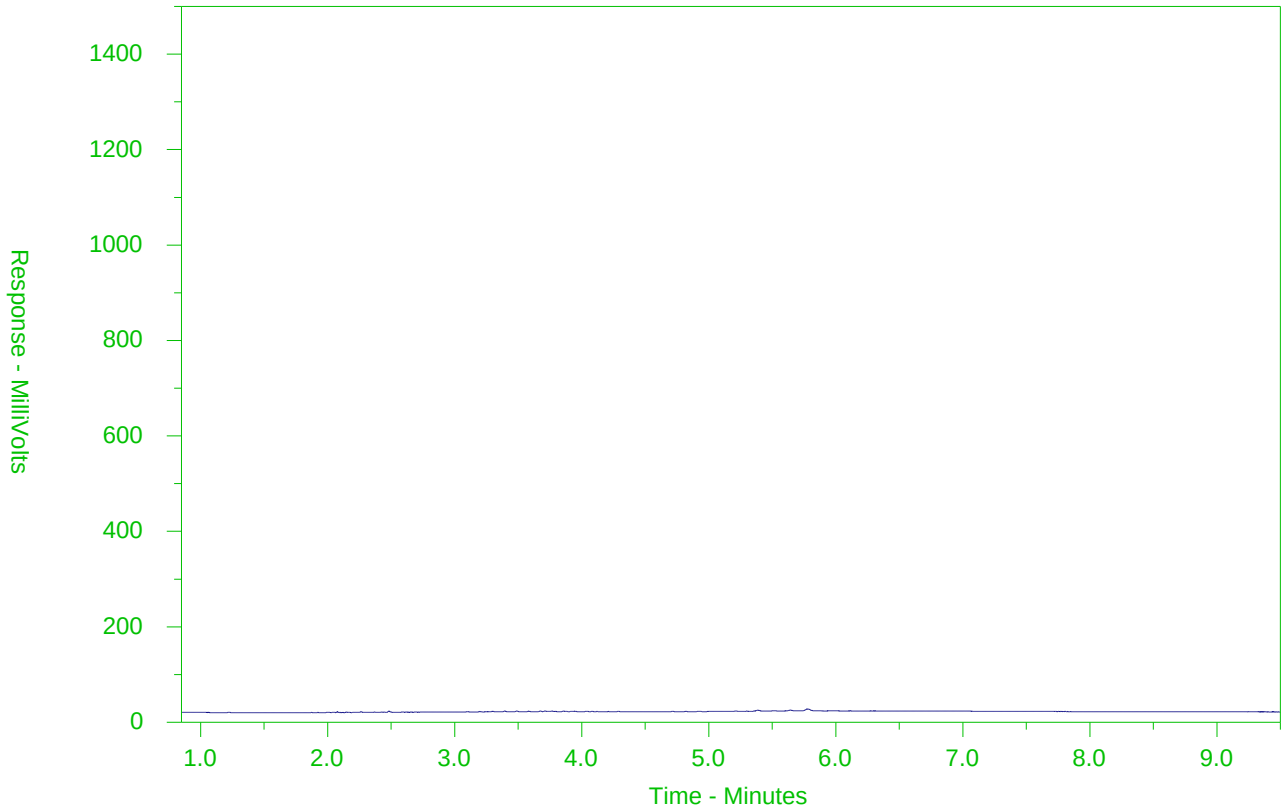
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

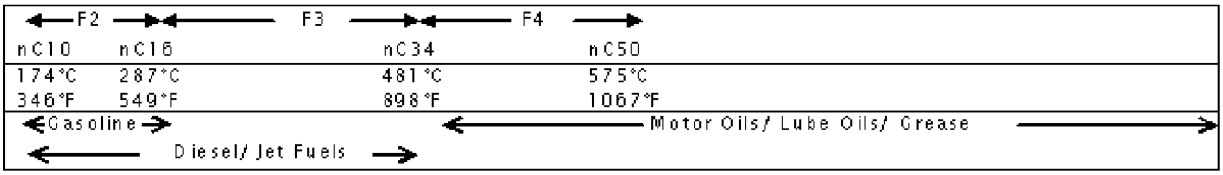
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-9
Client Sample ID: BH22-04 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

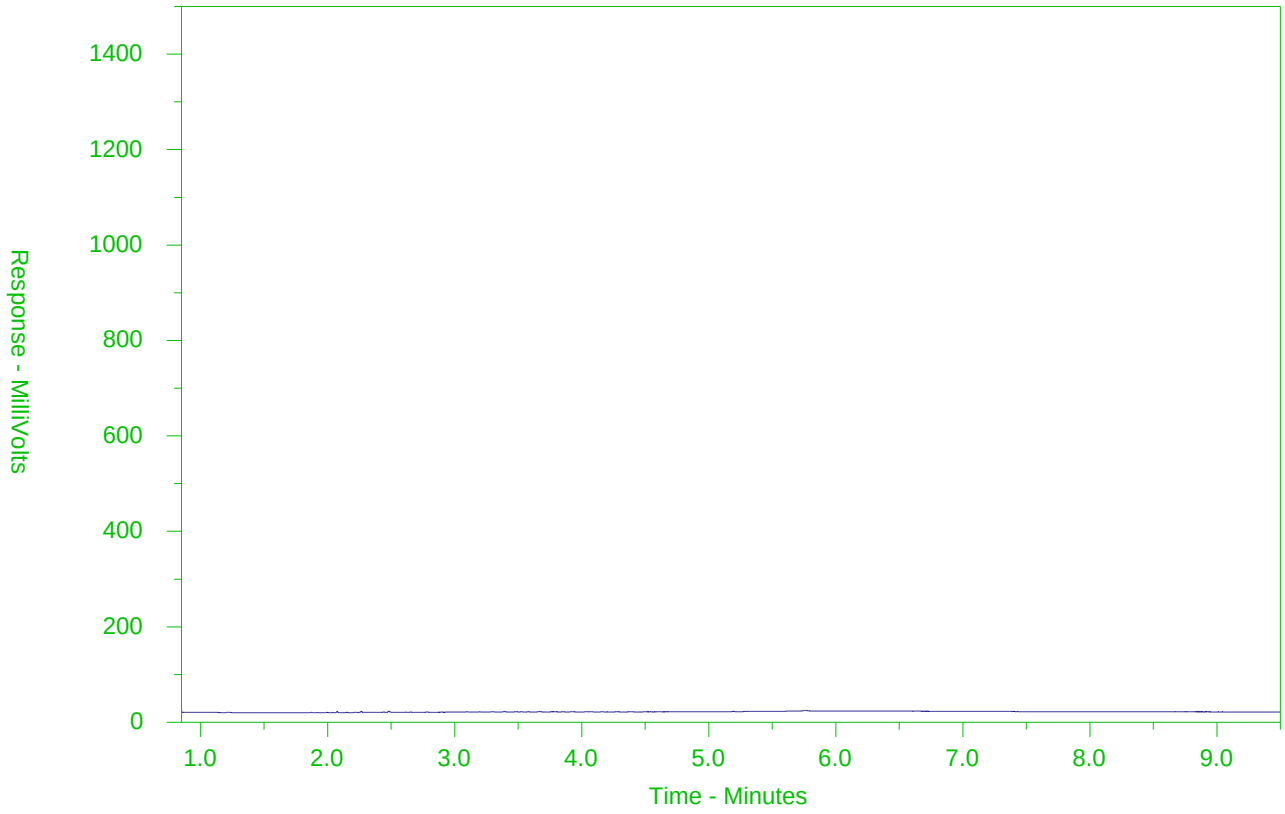
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

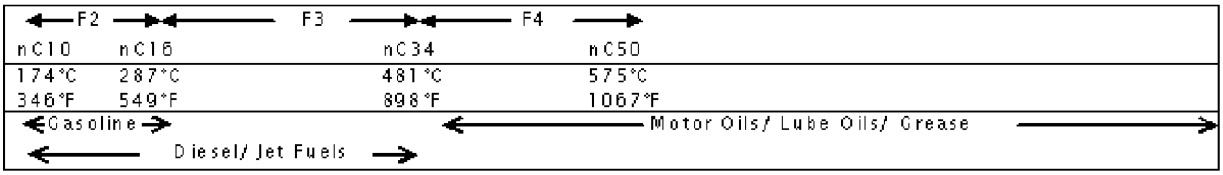
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-10
Client Sample ID: BH22-04 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

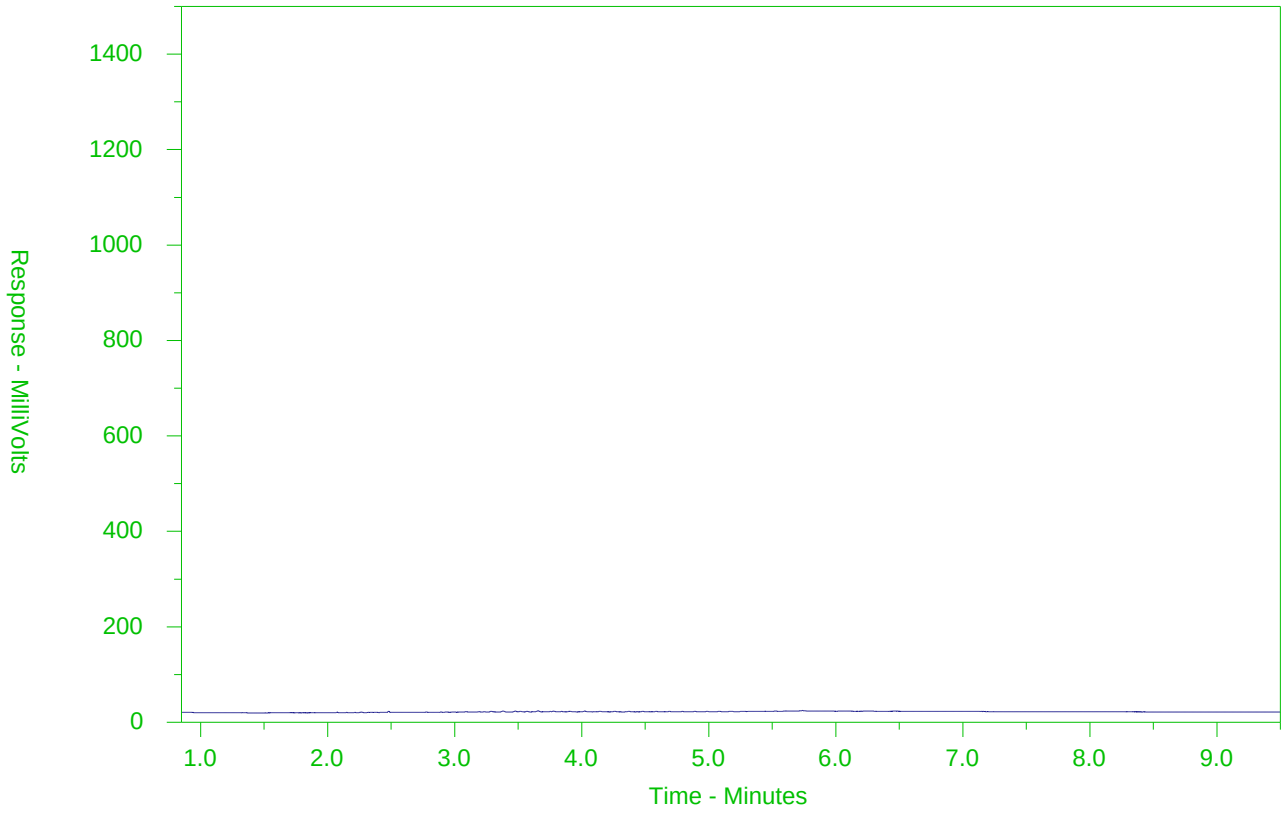
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

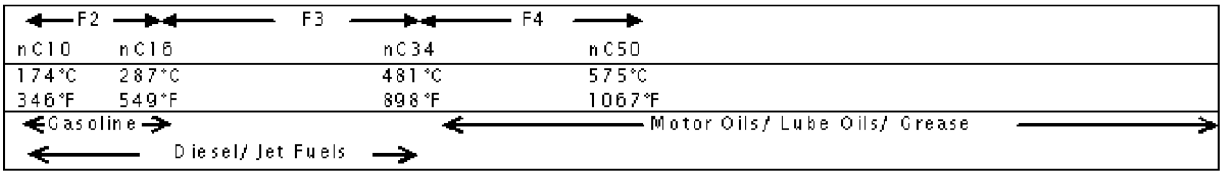
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-11
Client Sample ID: BH22-05 SS08





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

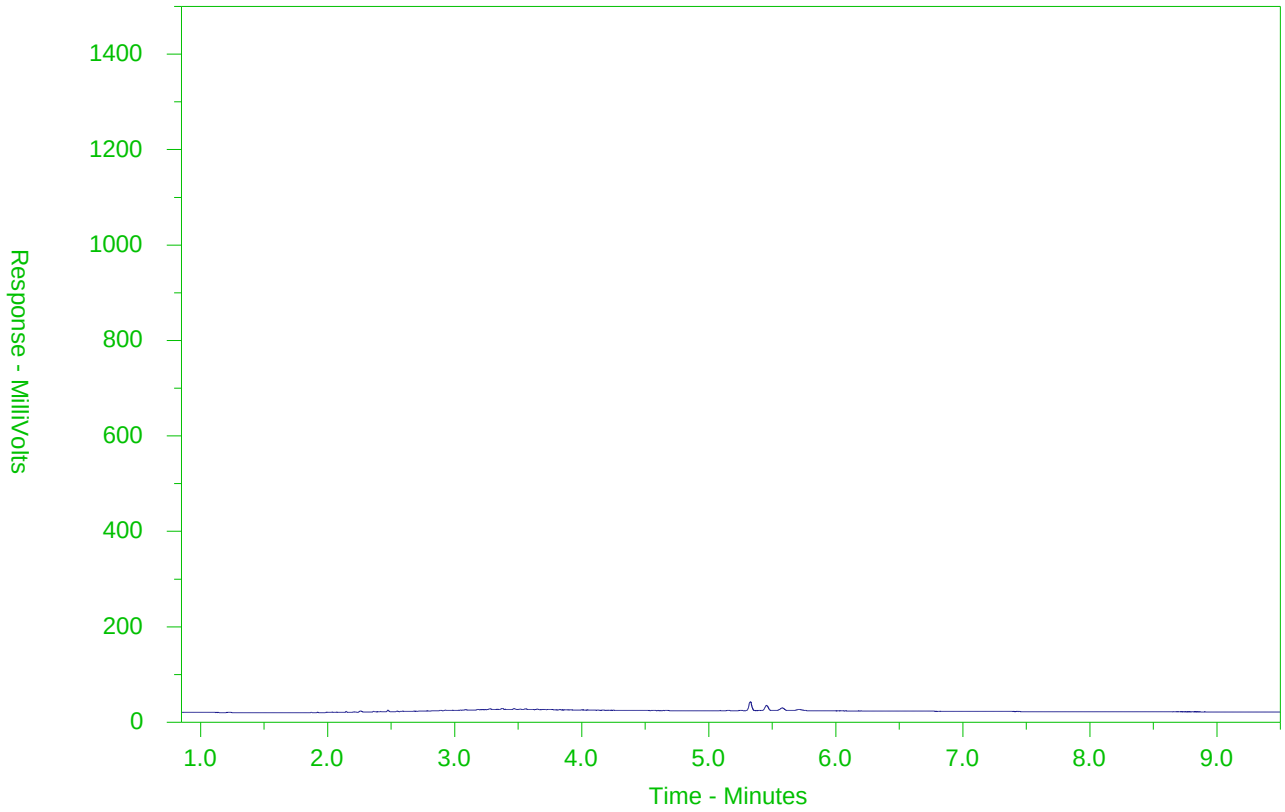
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

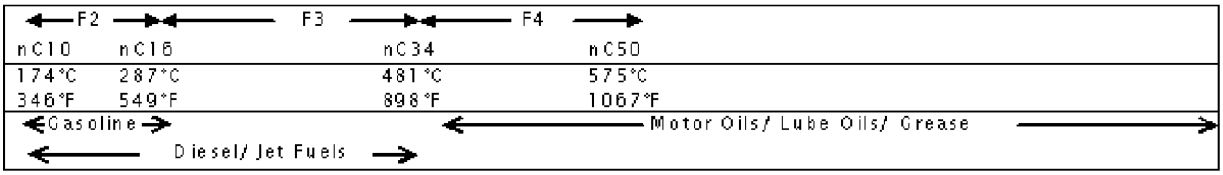
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-12
Client Sample ID: BH22-05 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

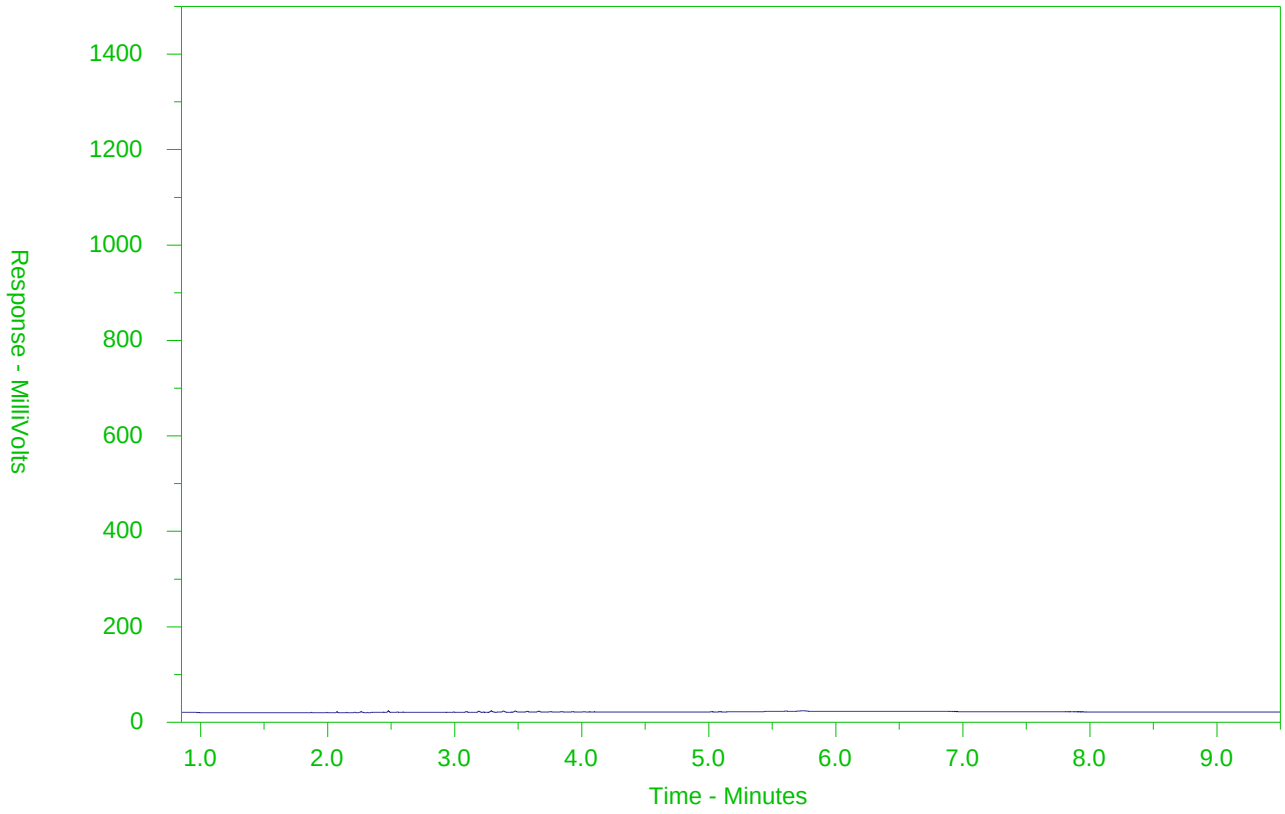
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

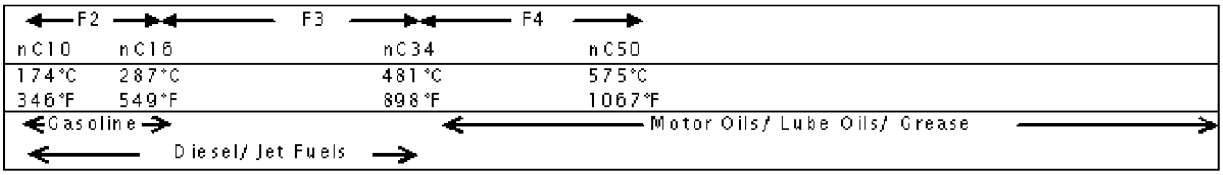
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-13
Client Sample ID: BH22-05 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

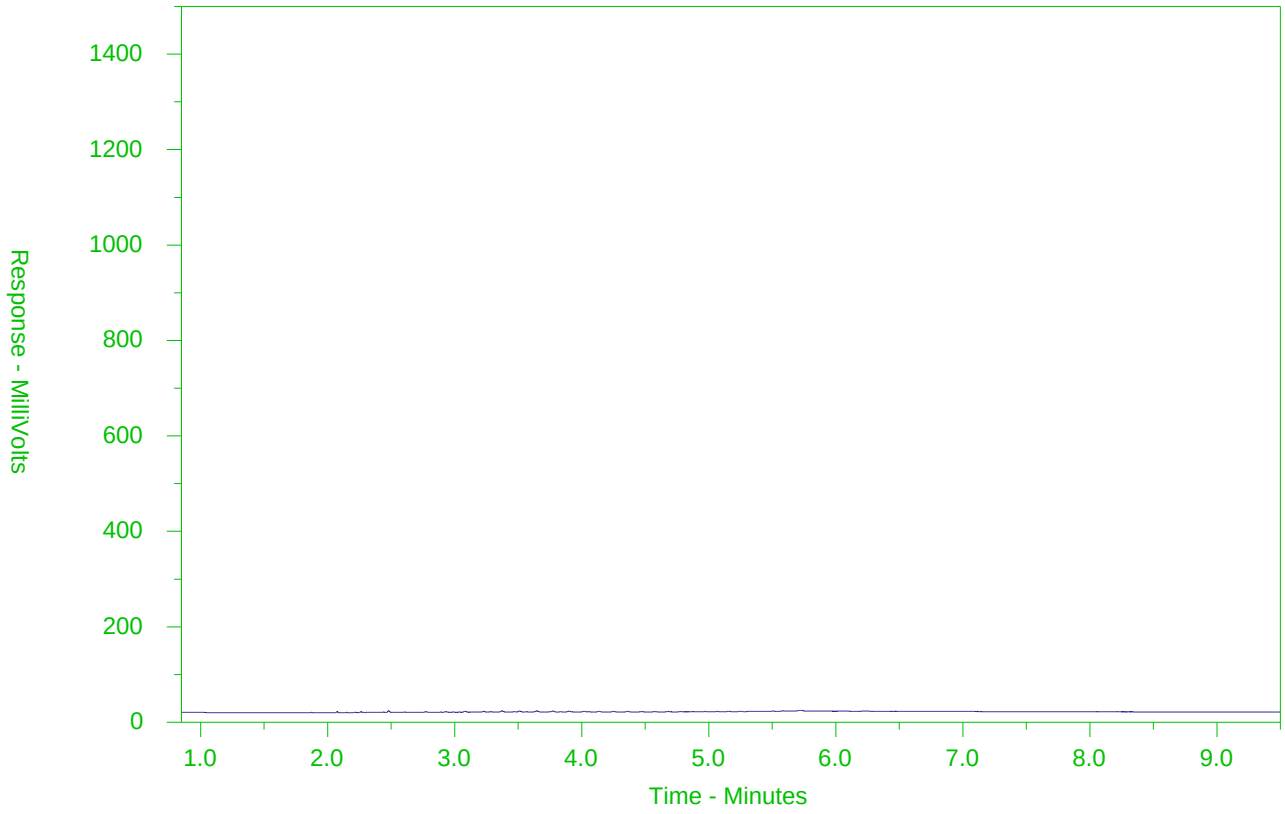
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

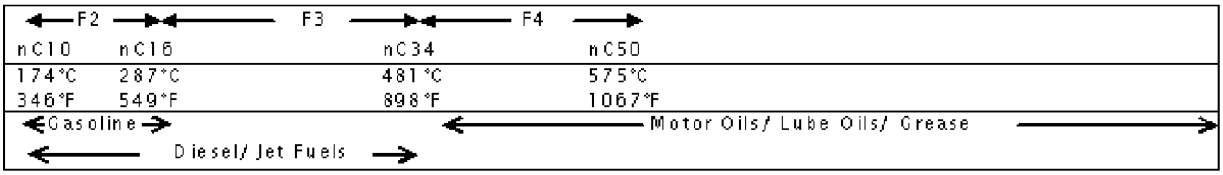
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-14
Client Sample ID: BH22-05 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

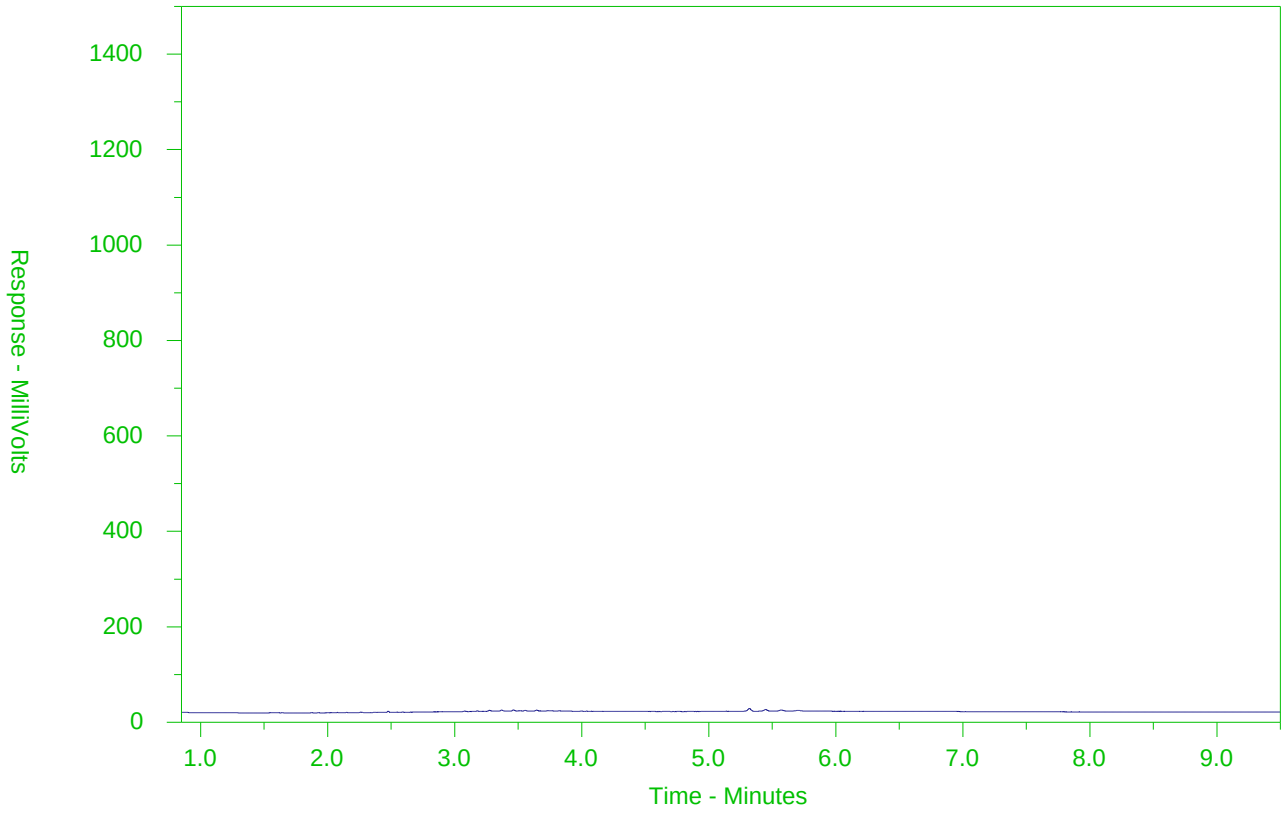
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

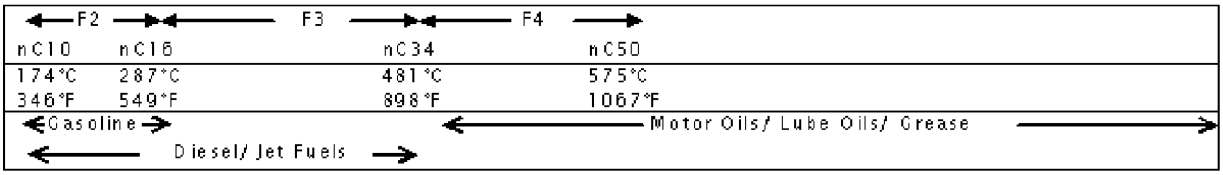
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-15
Client Sample ID: MW22-02 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

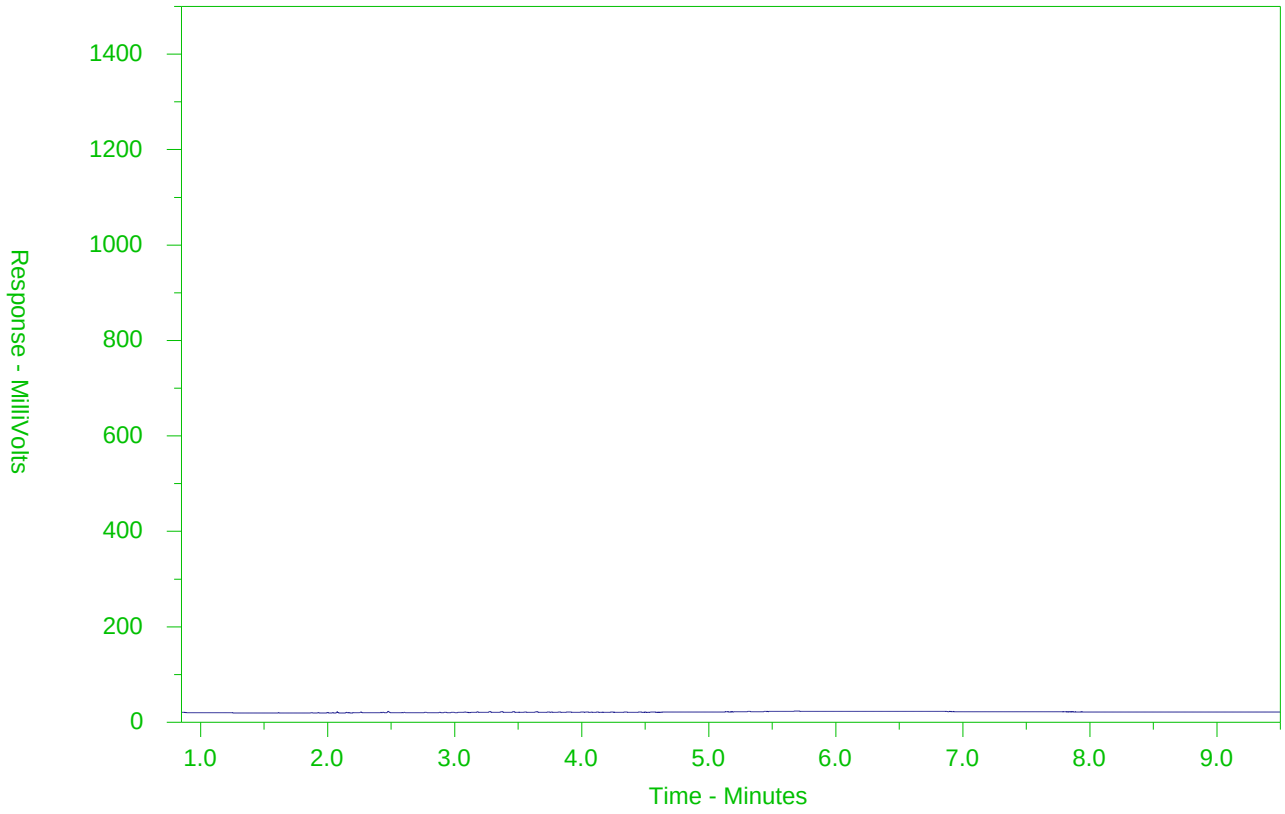
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

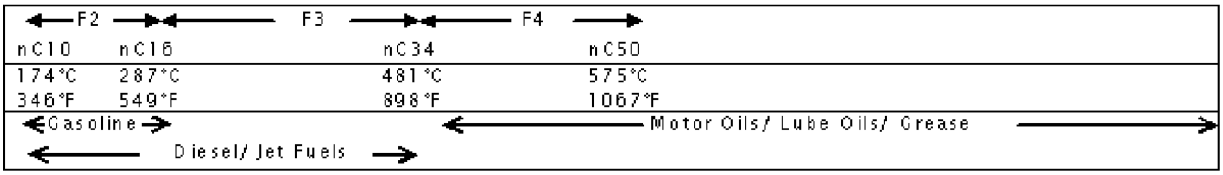
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-16
Client Sample ID: MW22-02 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

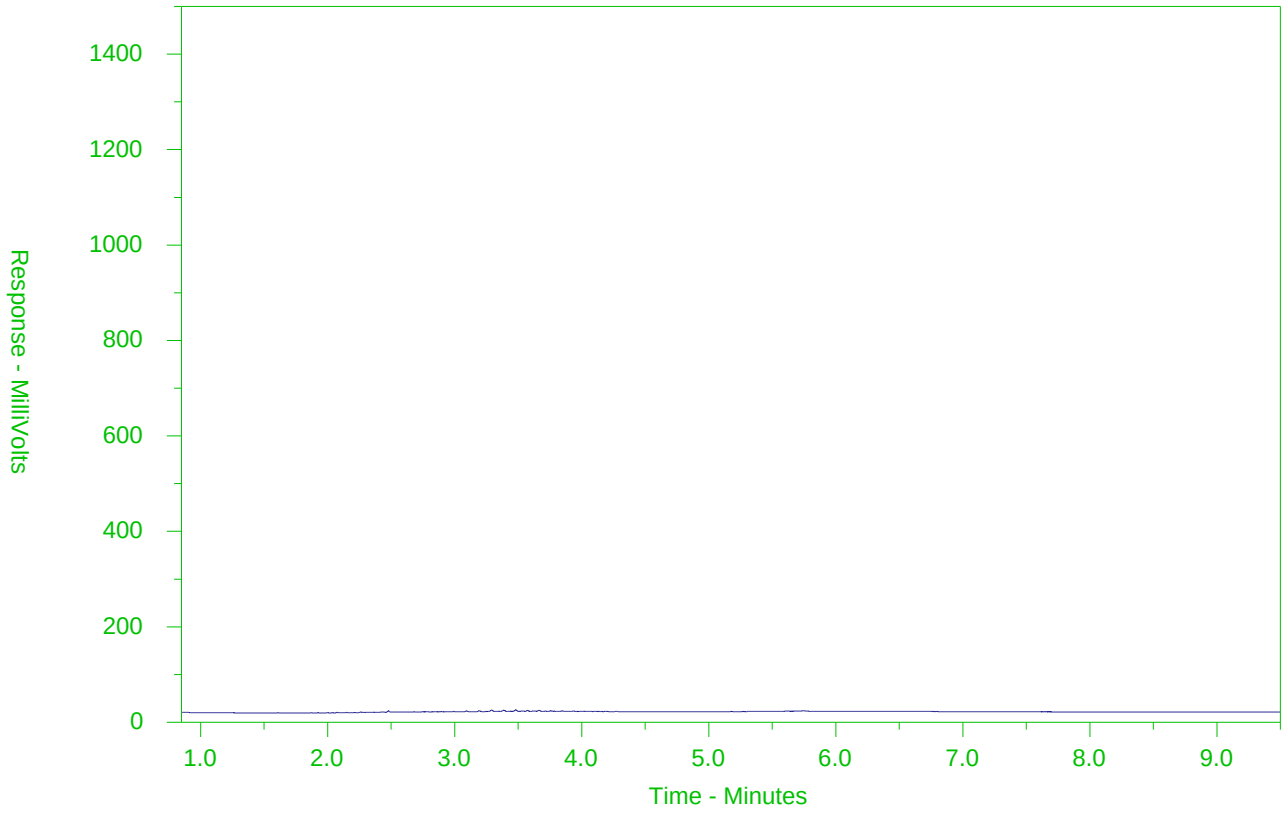
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

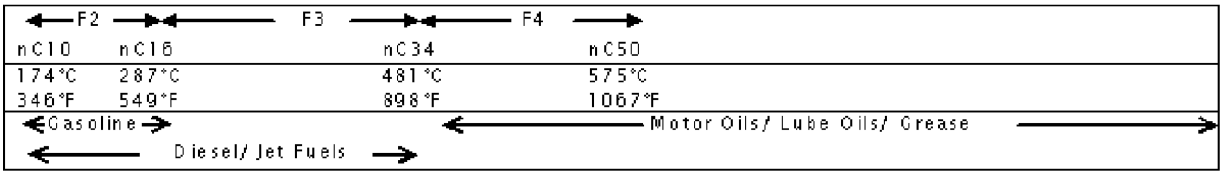
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-17
Client Sample ID: MW22-02 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

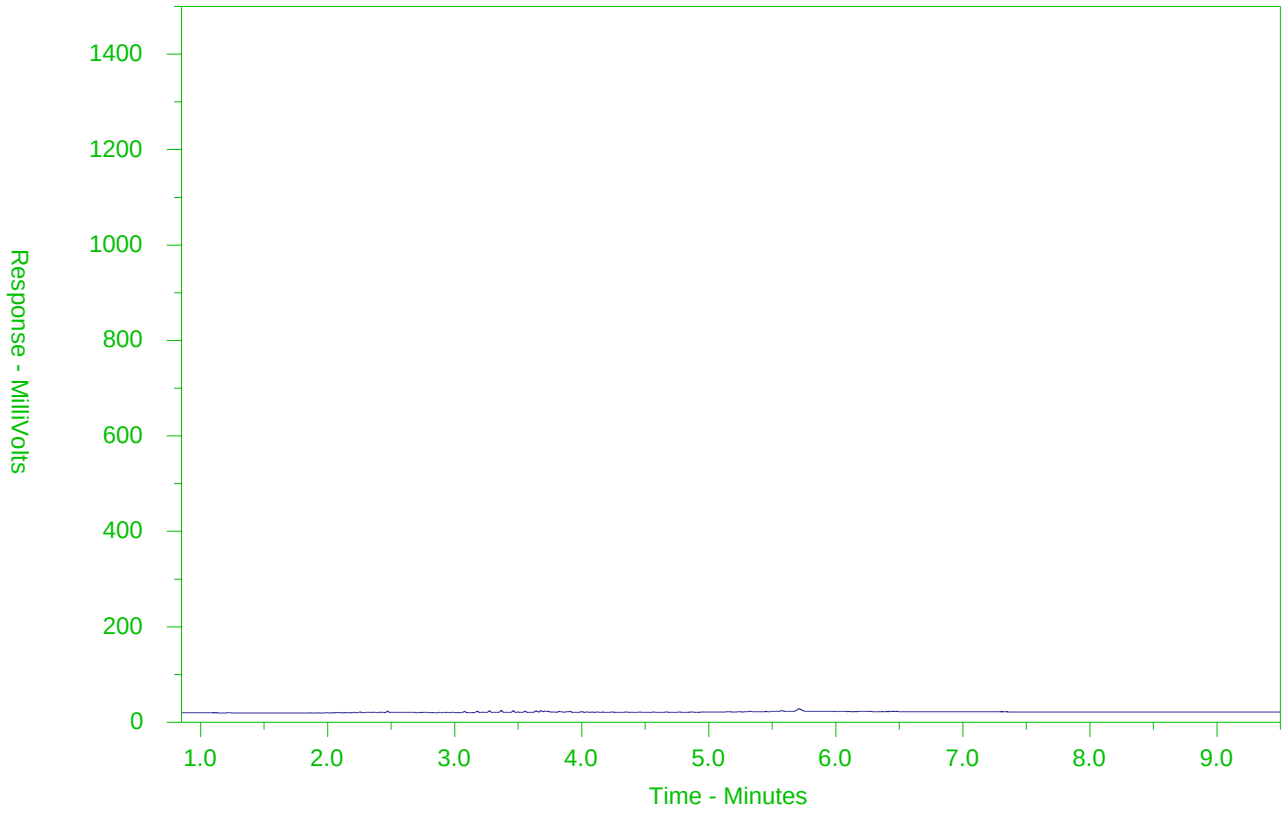
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

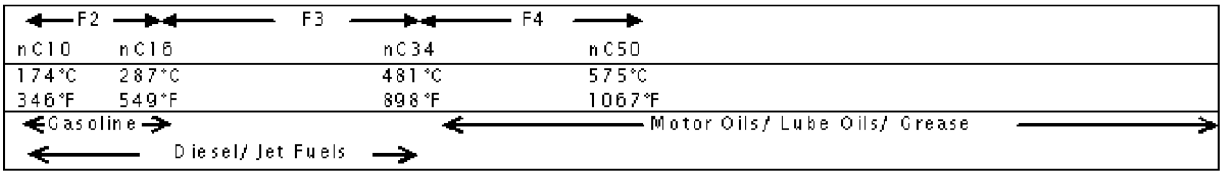
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-19
Client Sample ID: BH22-09 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

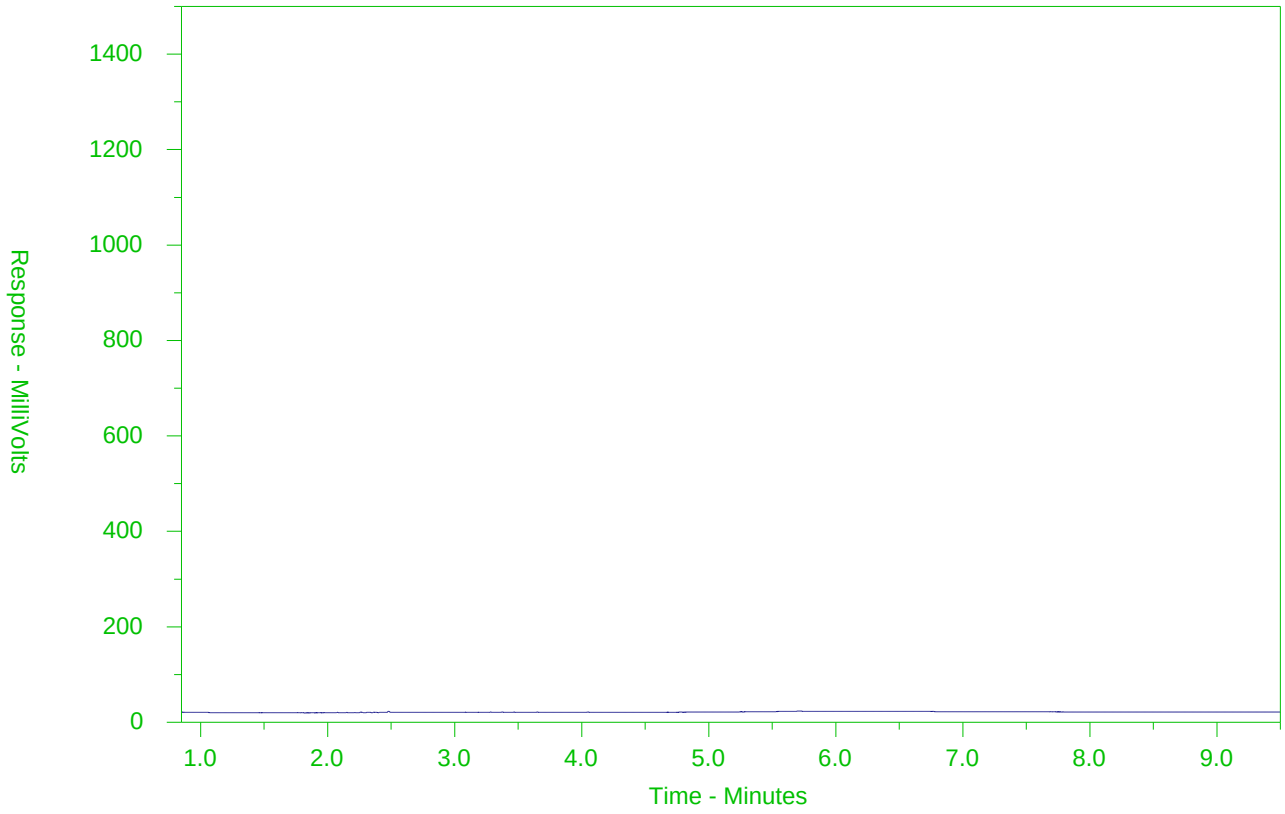
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

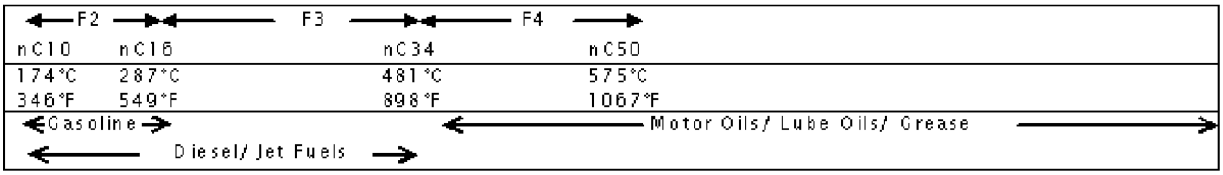
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-20
Client Sample ID: BH22-09 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

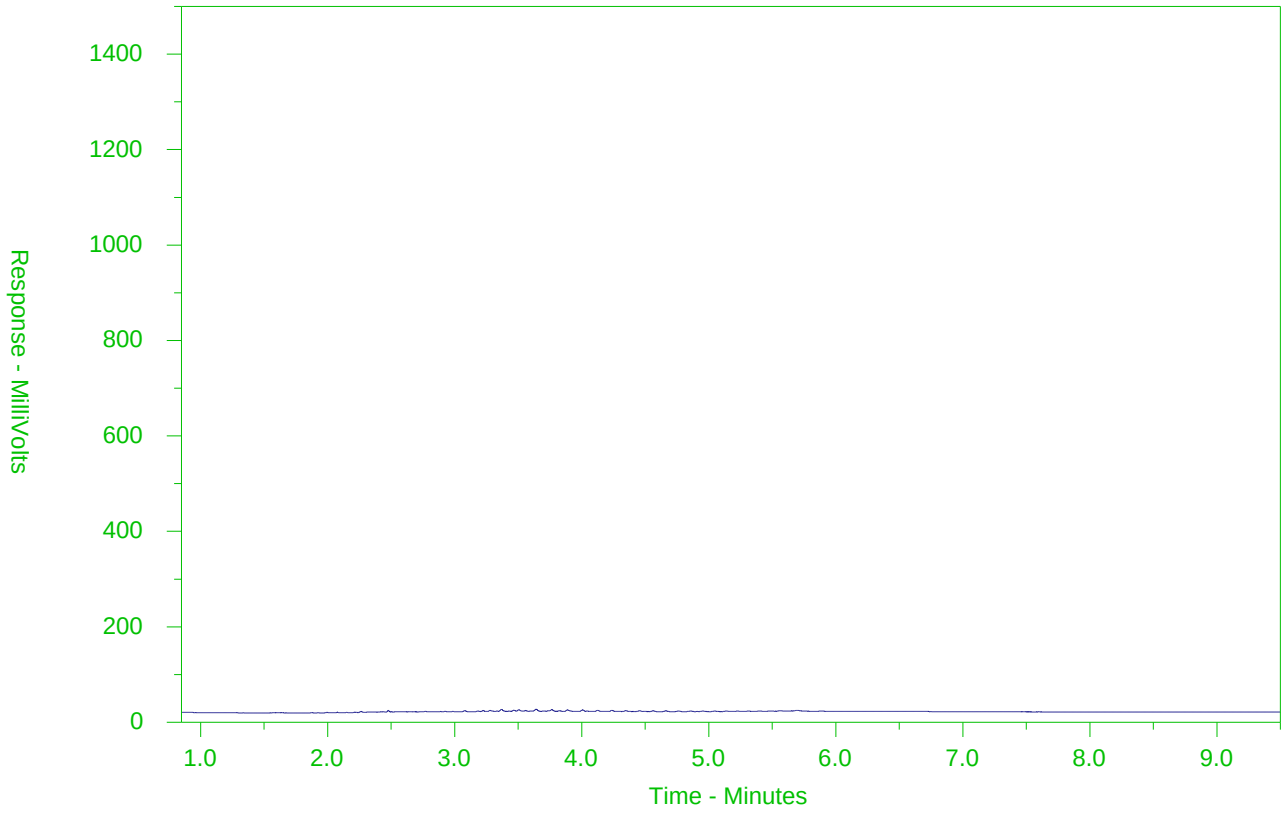
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

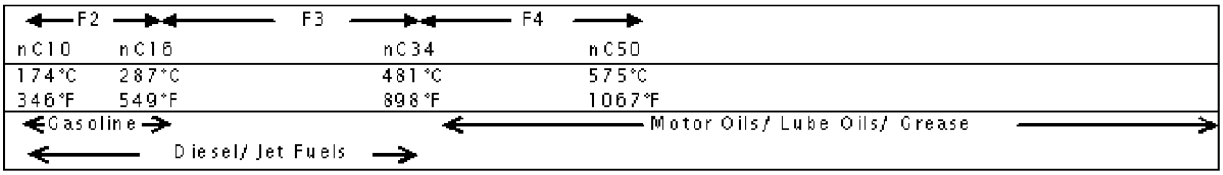
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-21
Client Sample ID: BH22-09 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

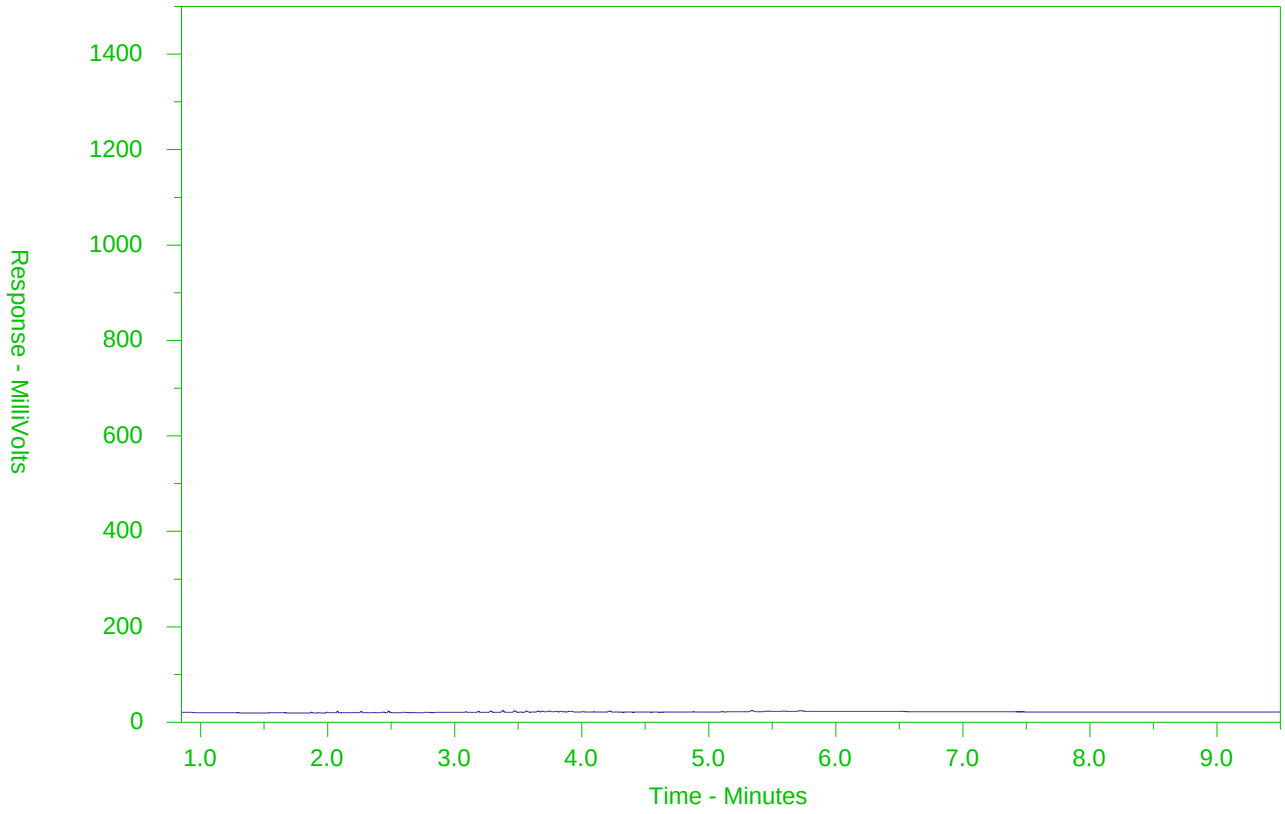
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

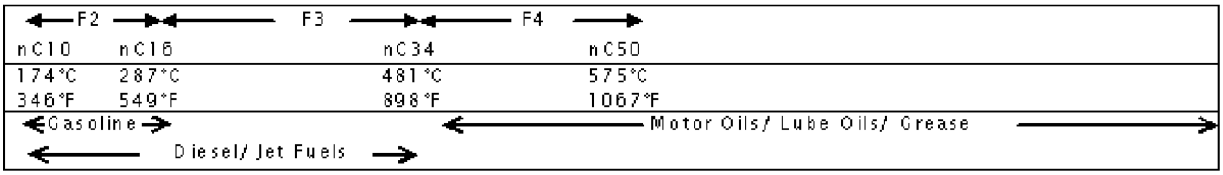
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-23
Client Sample ID: BH22-13 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

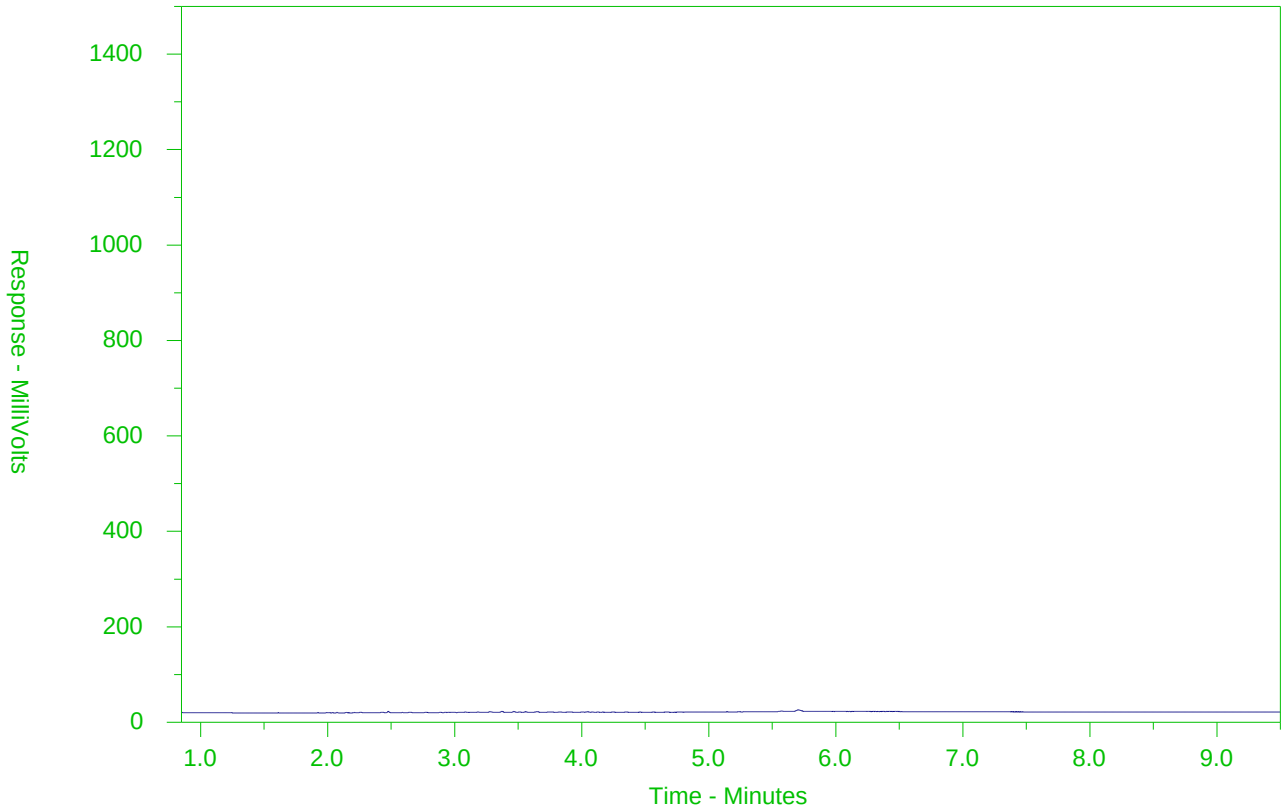
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

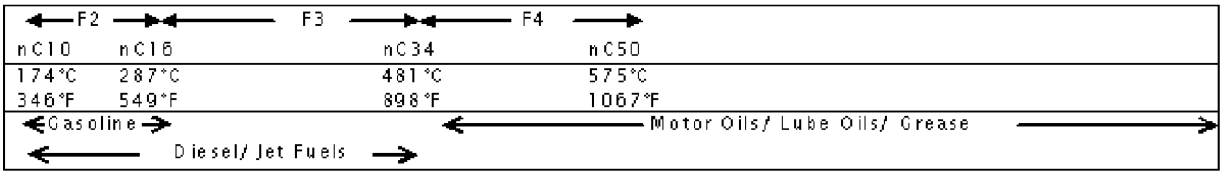
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-24
Client Sample ID: BH22-13 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

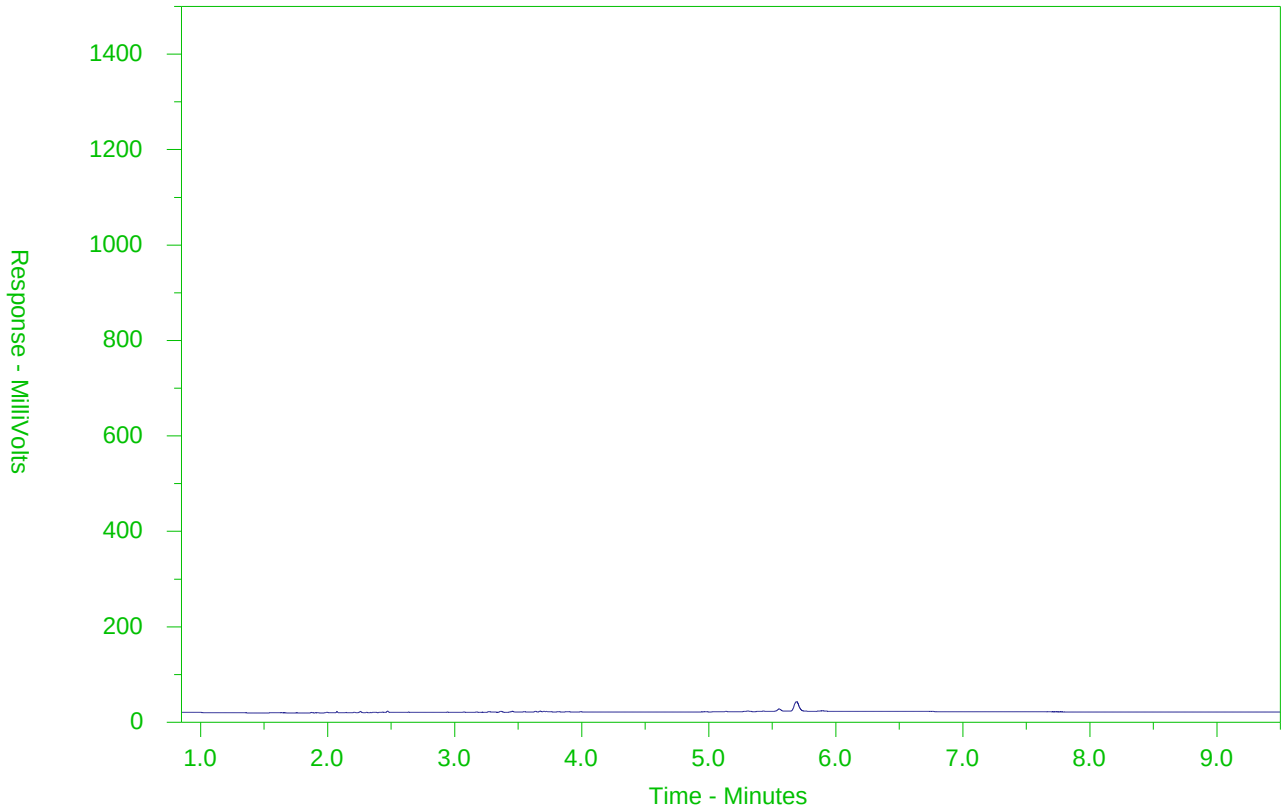
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

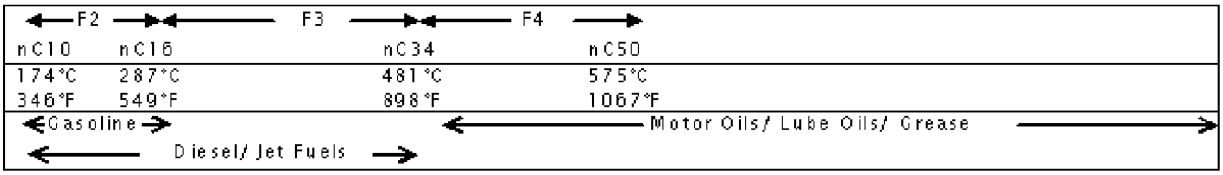
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-25
Client Sample ID: BH22-10 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

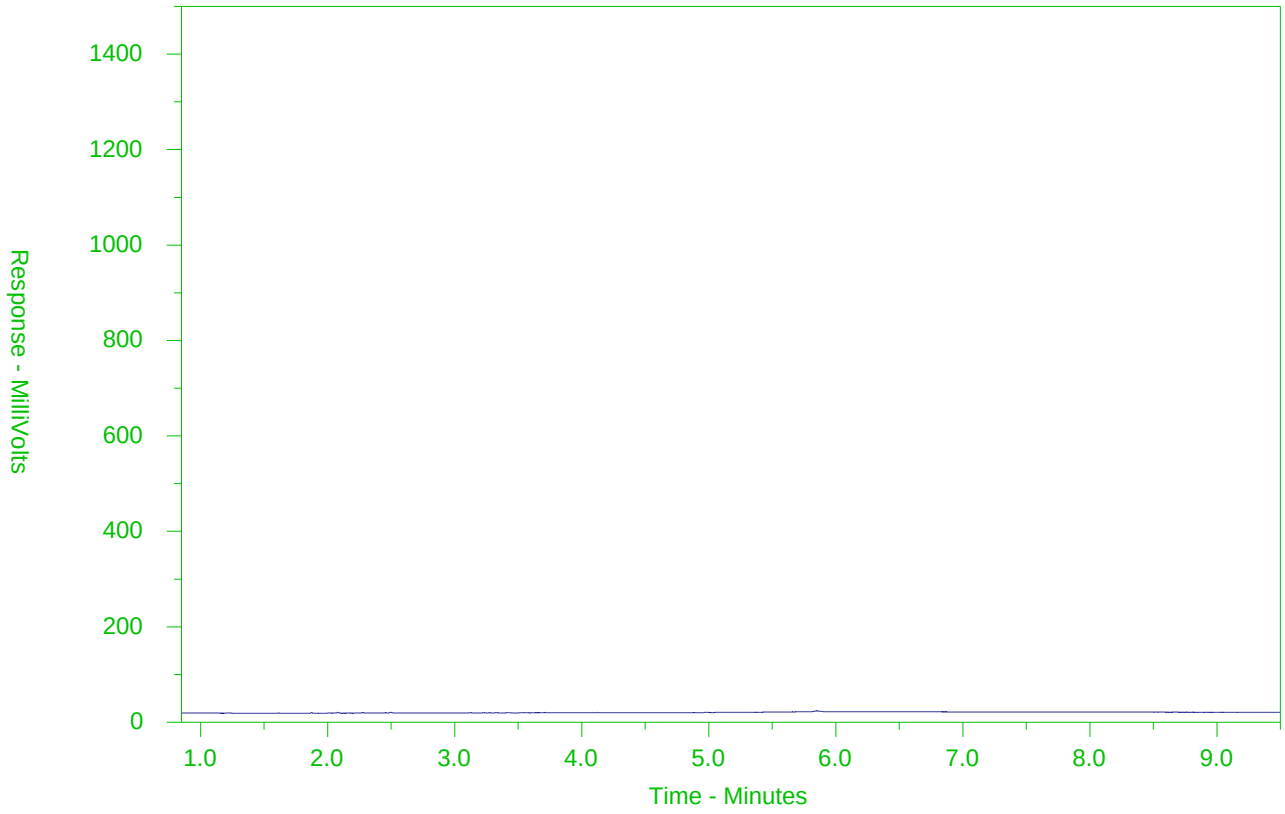
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

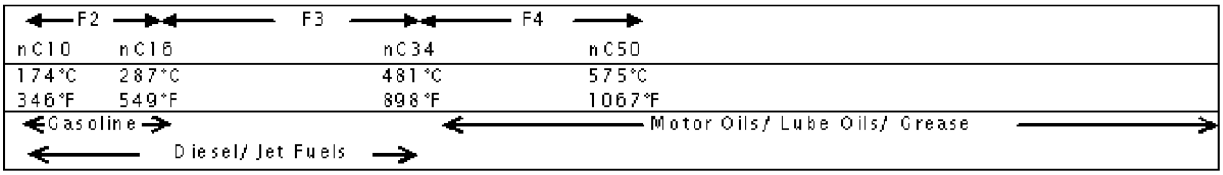
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-26
Client Sample ID: BH22-10 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

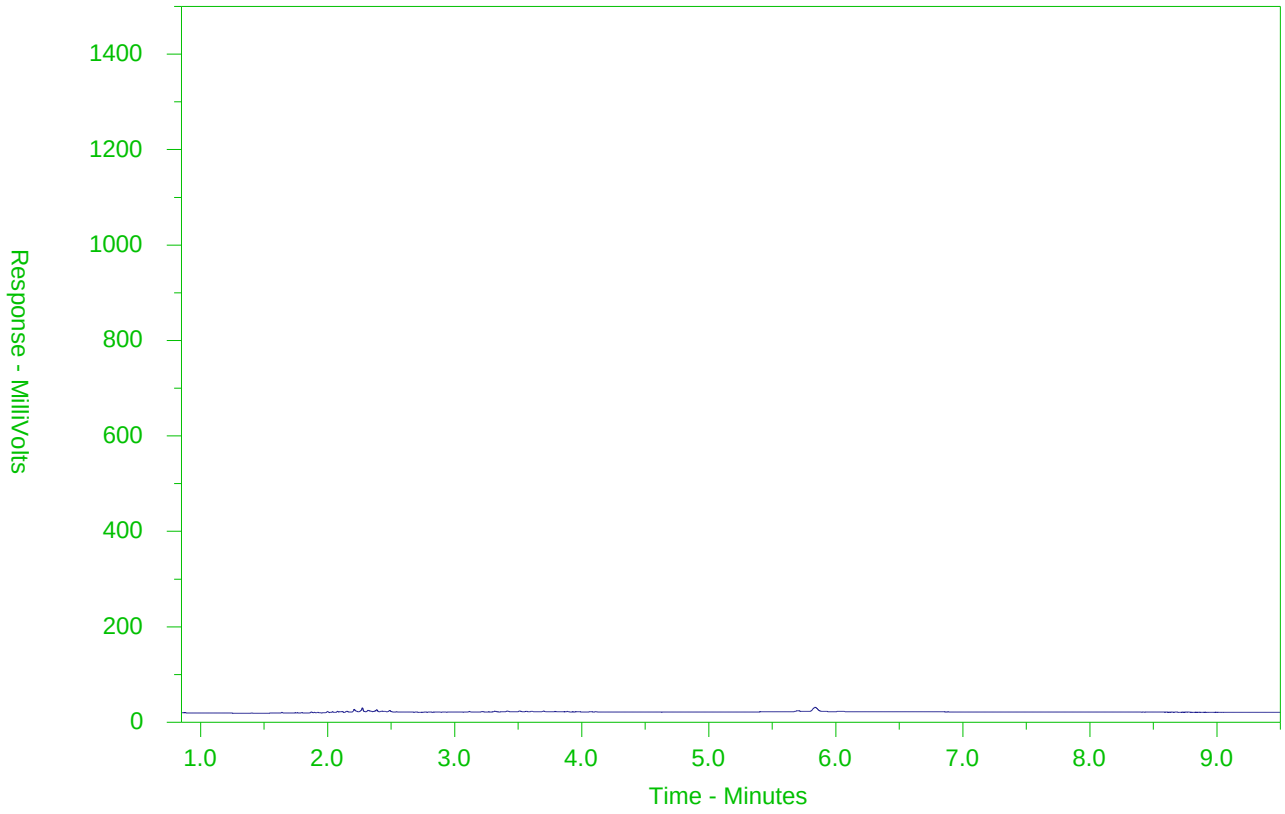
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

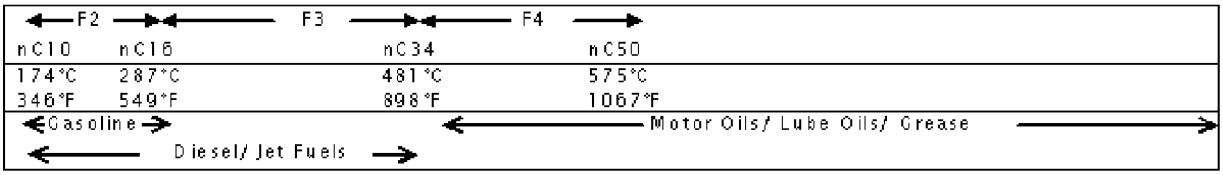
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-27
Client Sample ID: BH22-10 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

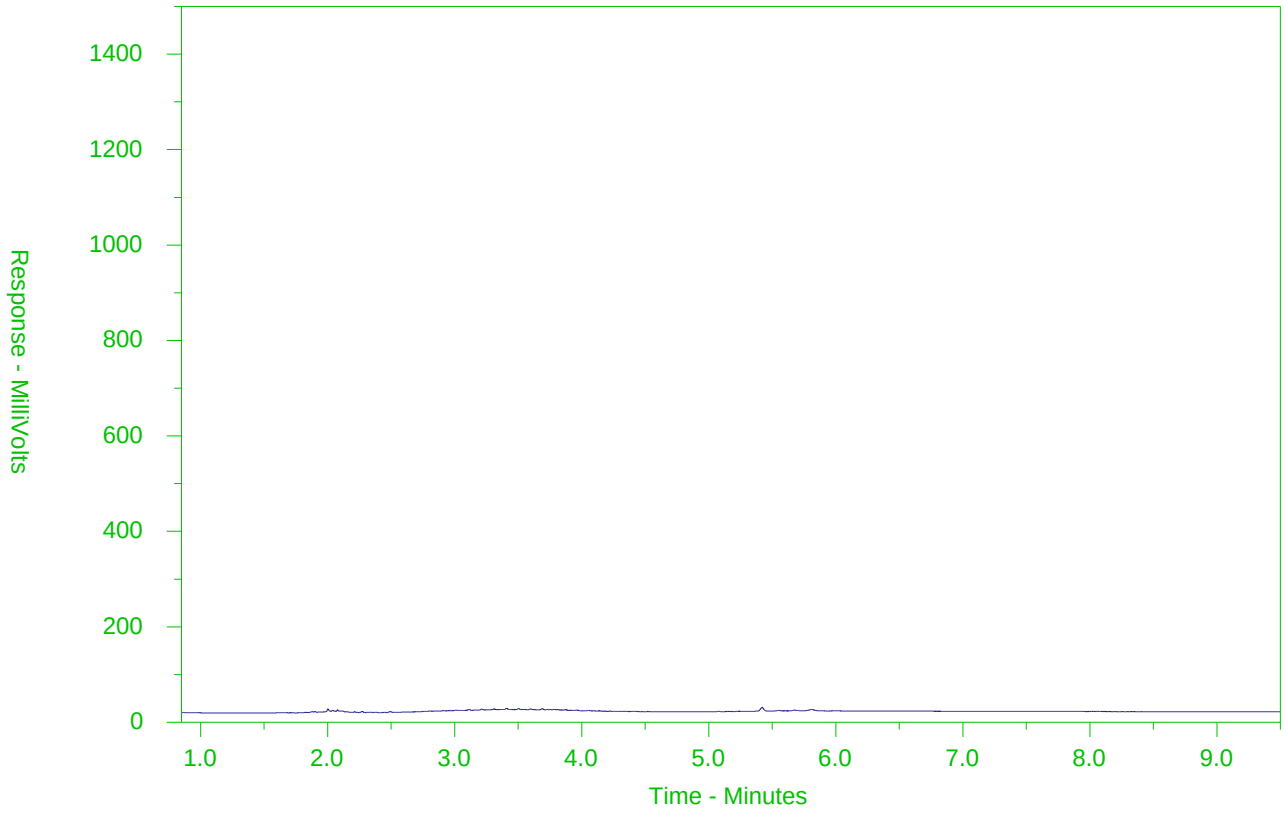
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

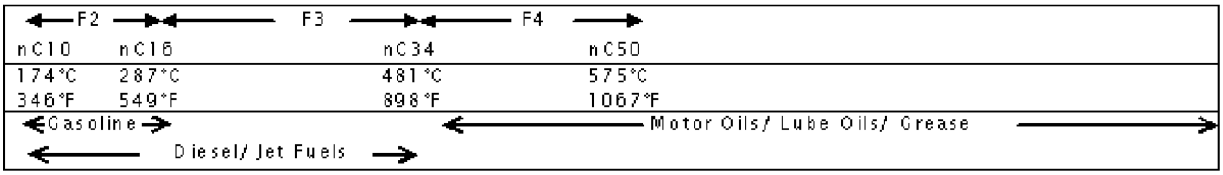
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-28
Client Sample ID: BH22-11 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

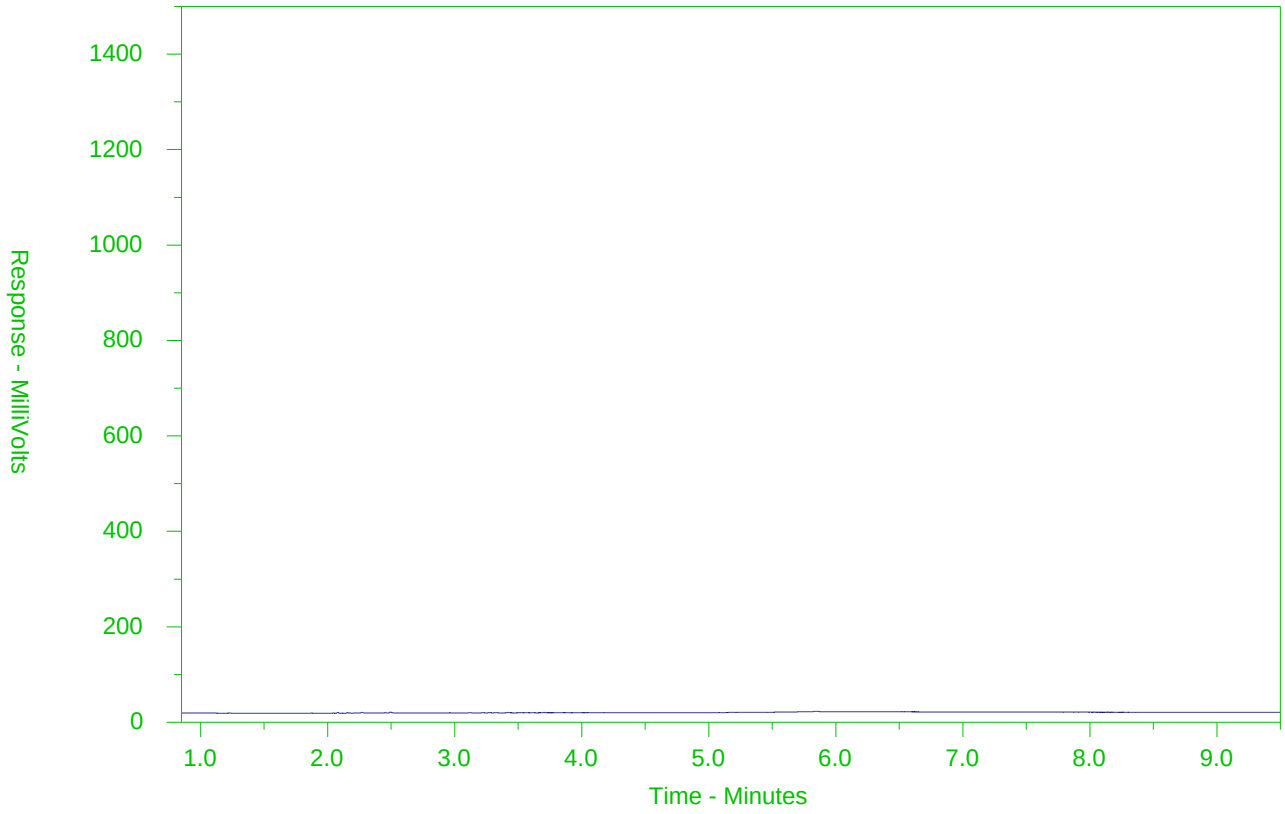
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

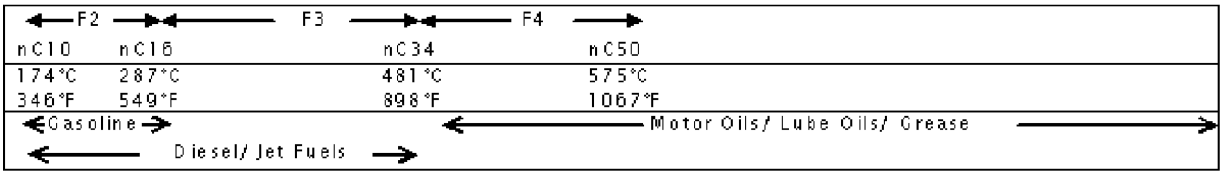
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-29
Client Sample ID: BH22-11 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

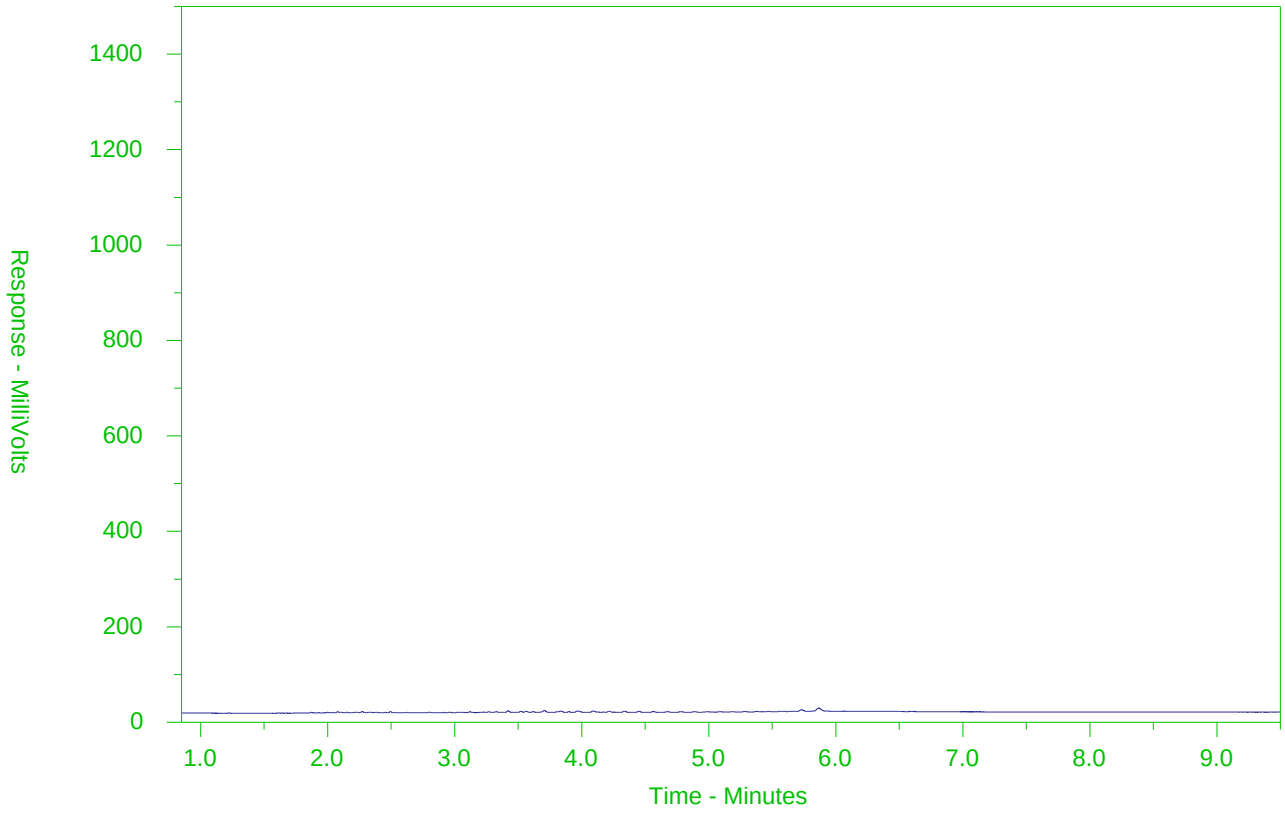
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

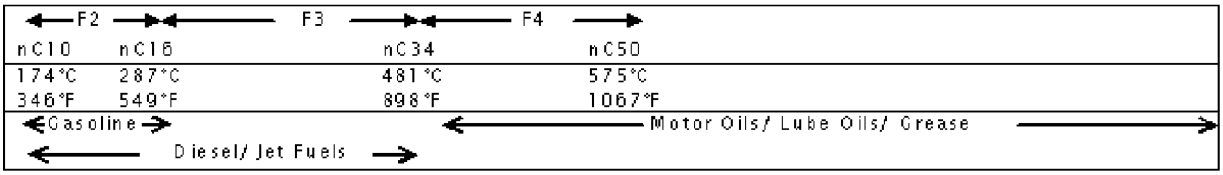
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-30
Client Sample ID: BH22-11 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

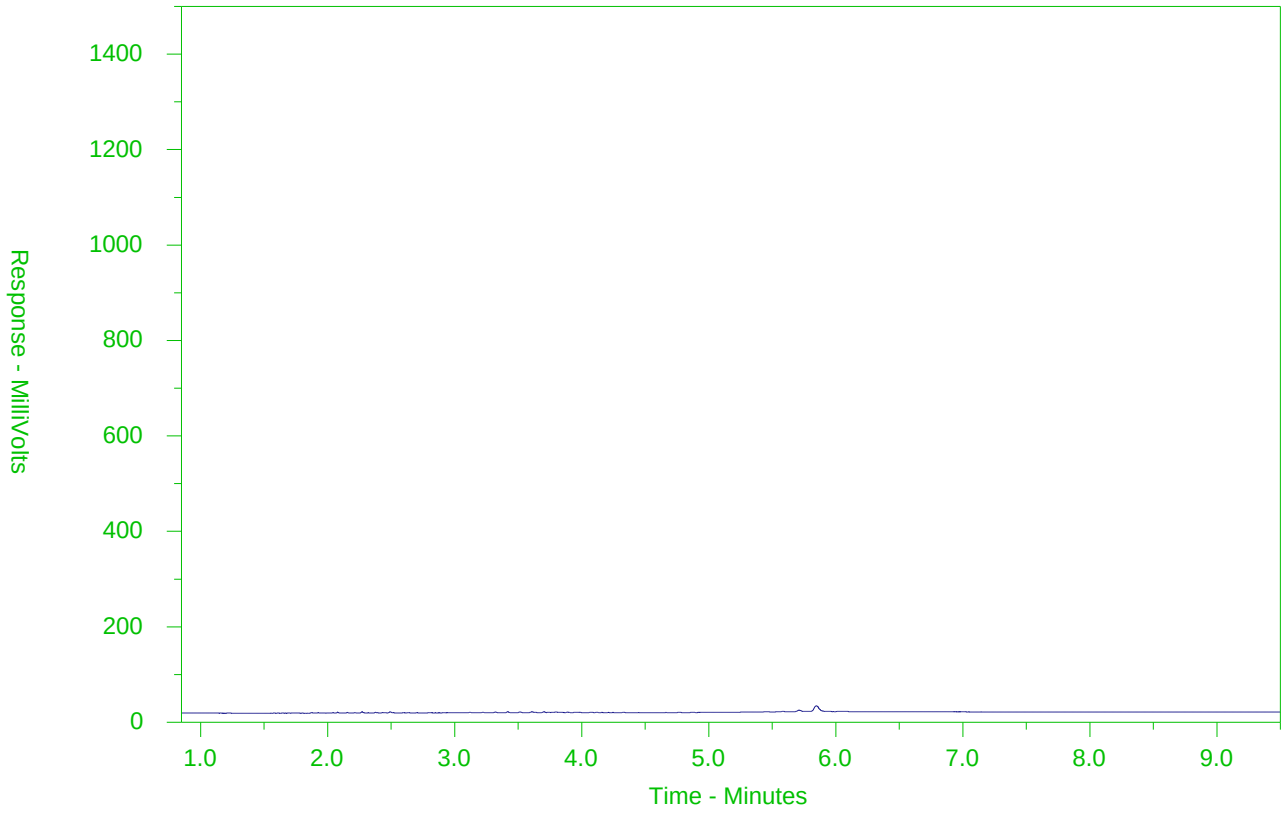
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

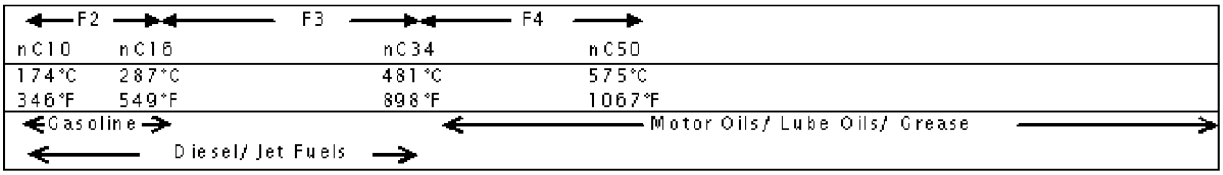
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-31
Client Sample ID: MW22-01 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

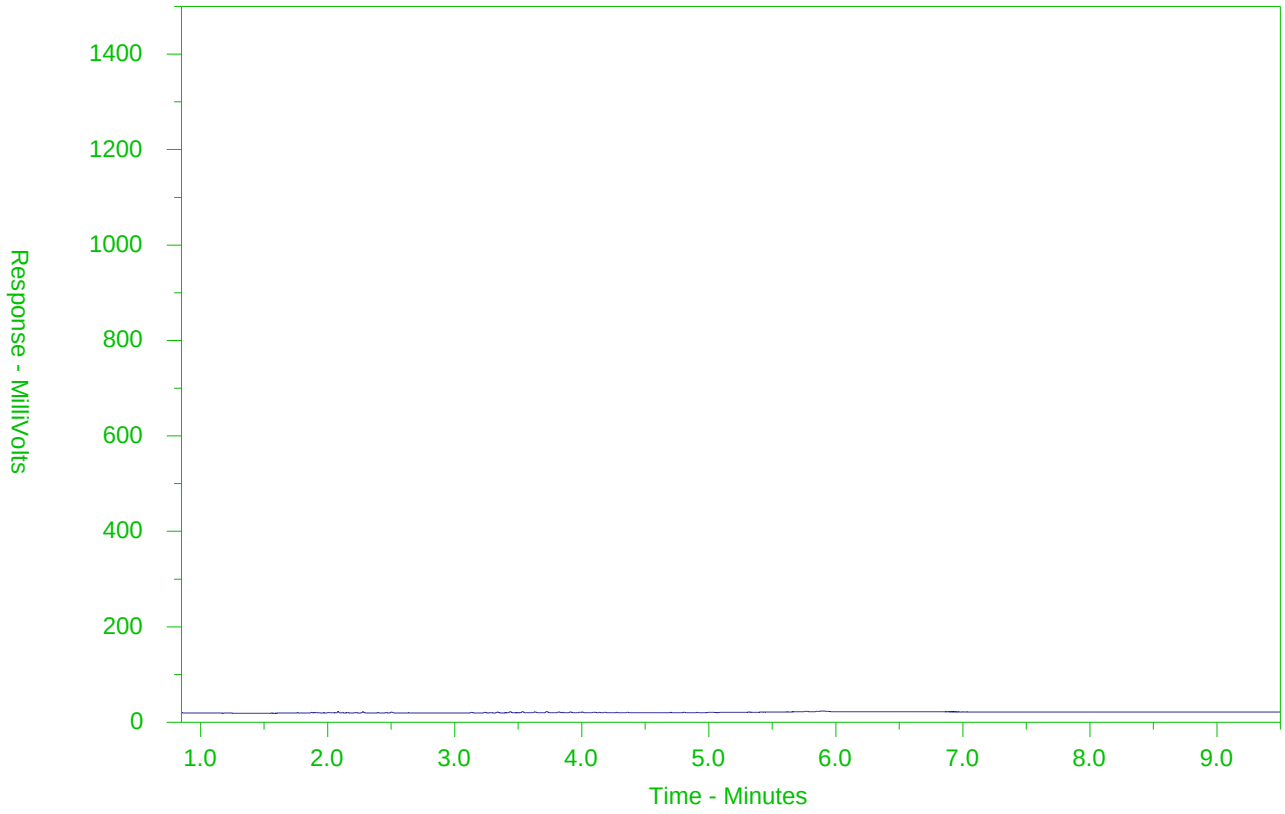
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

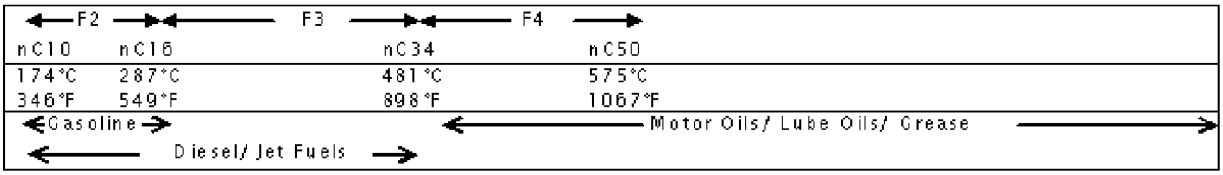
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-32
Client Sample ID: MW22-01 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

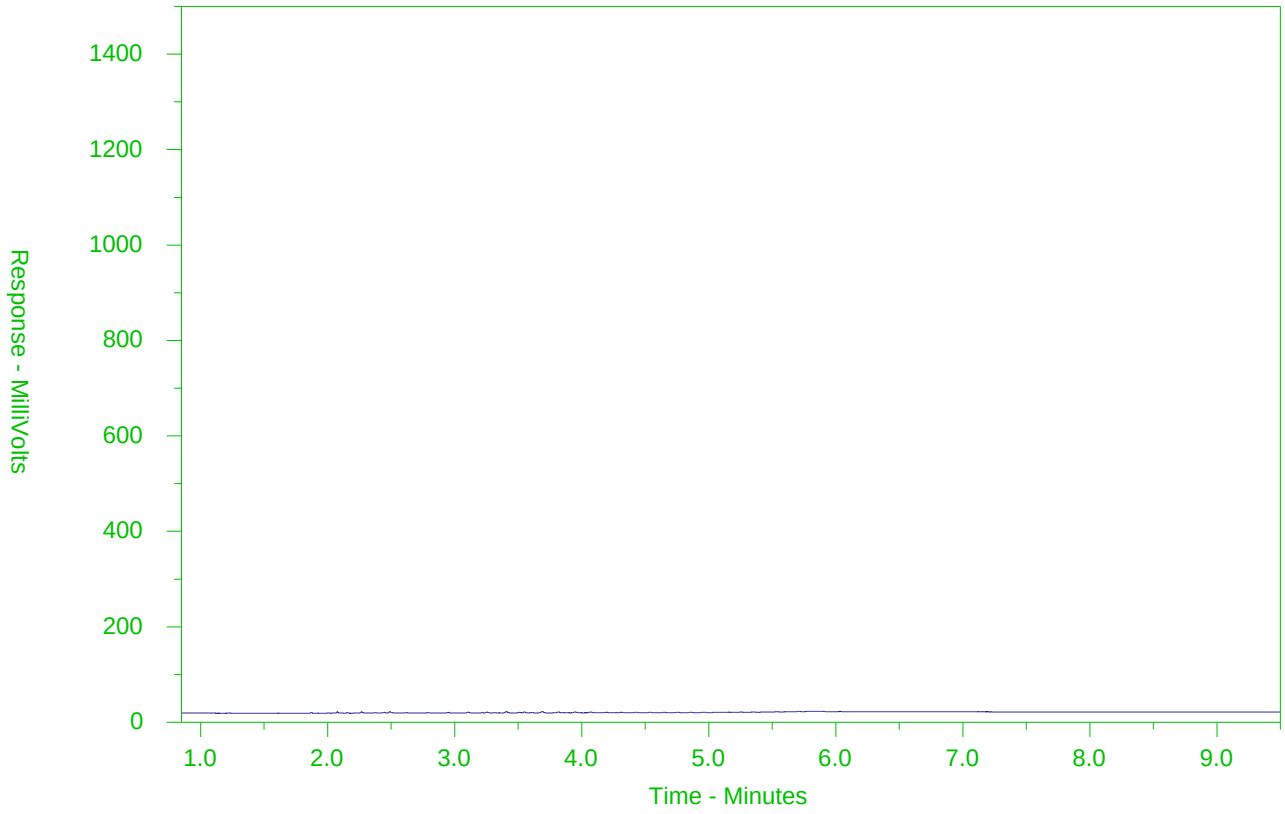
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

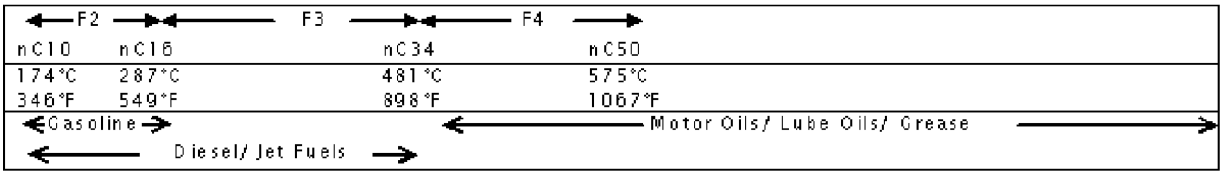
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-33
Client Sample ID: MW22-01 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

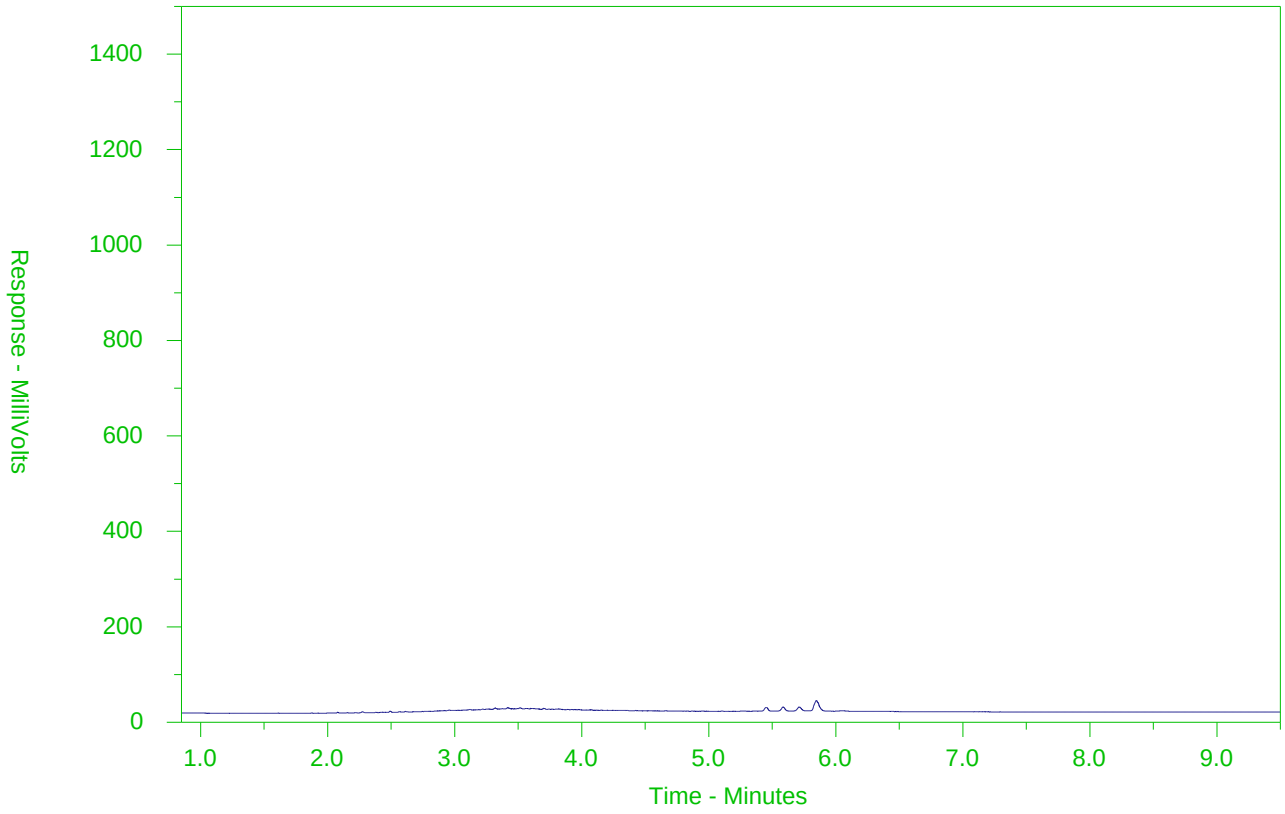
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

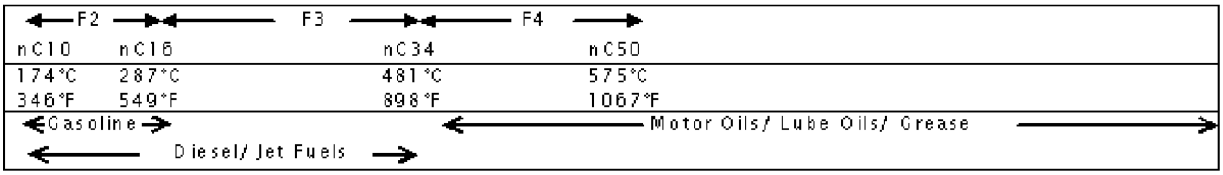
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-34
Client Sample ID: BH22-08 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

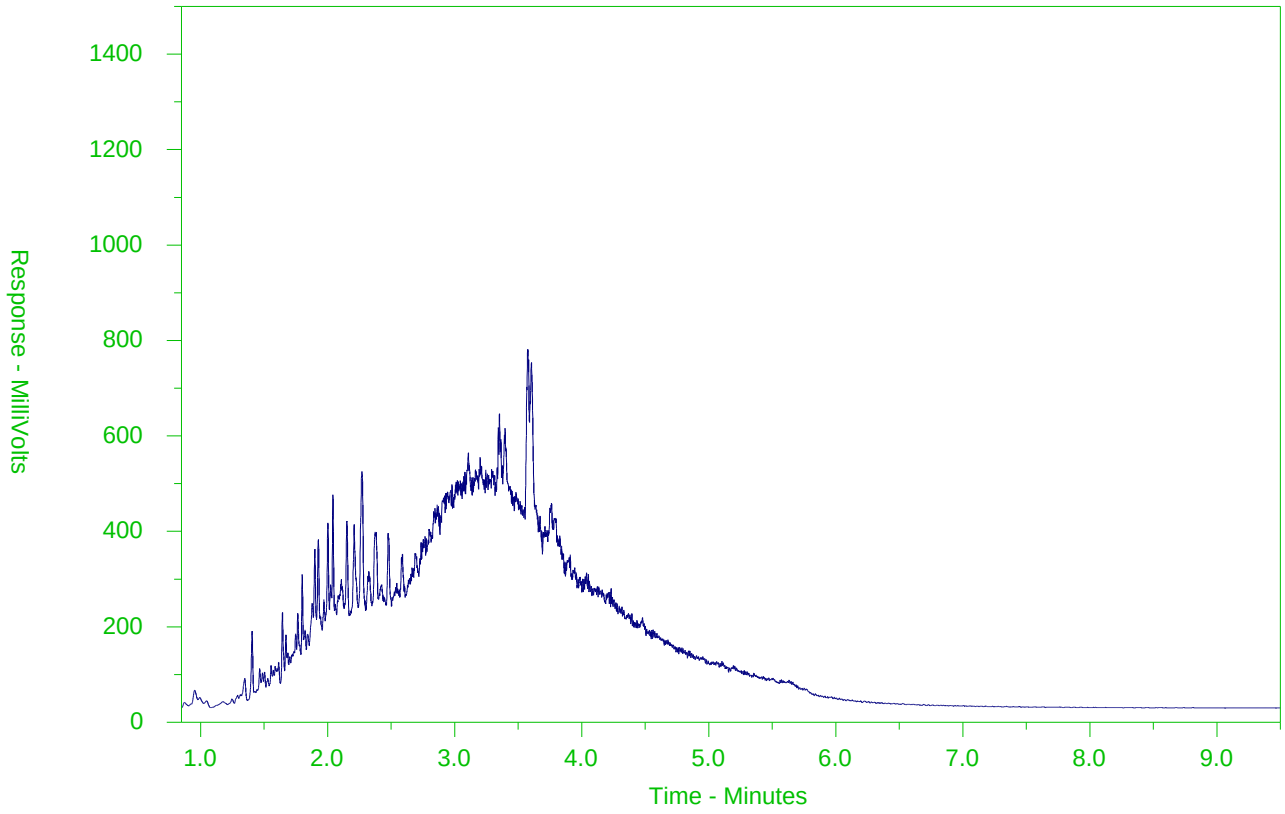
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

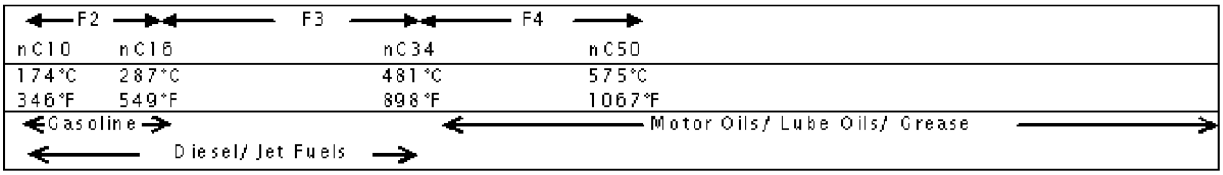
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-35
Client Sample ID: BH22-08 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

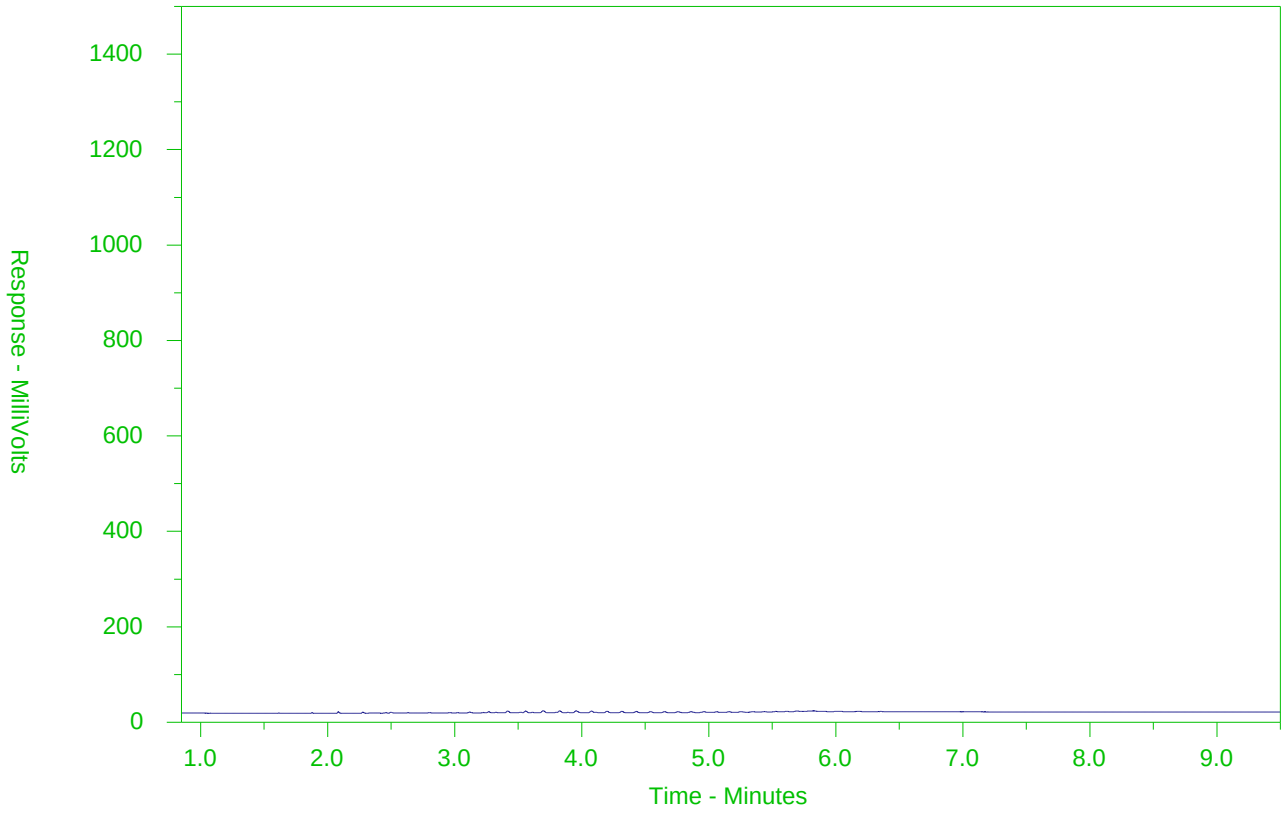
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

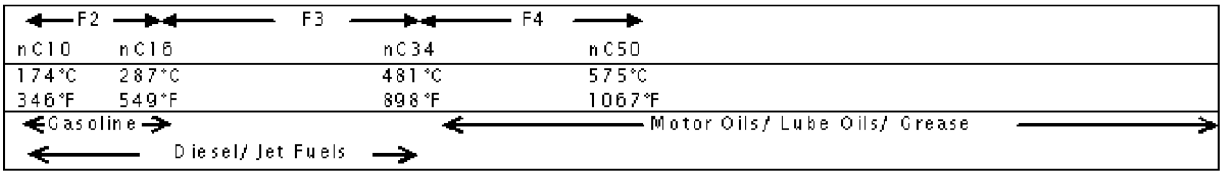
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-36
Client Sample ID: BH22-08 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

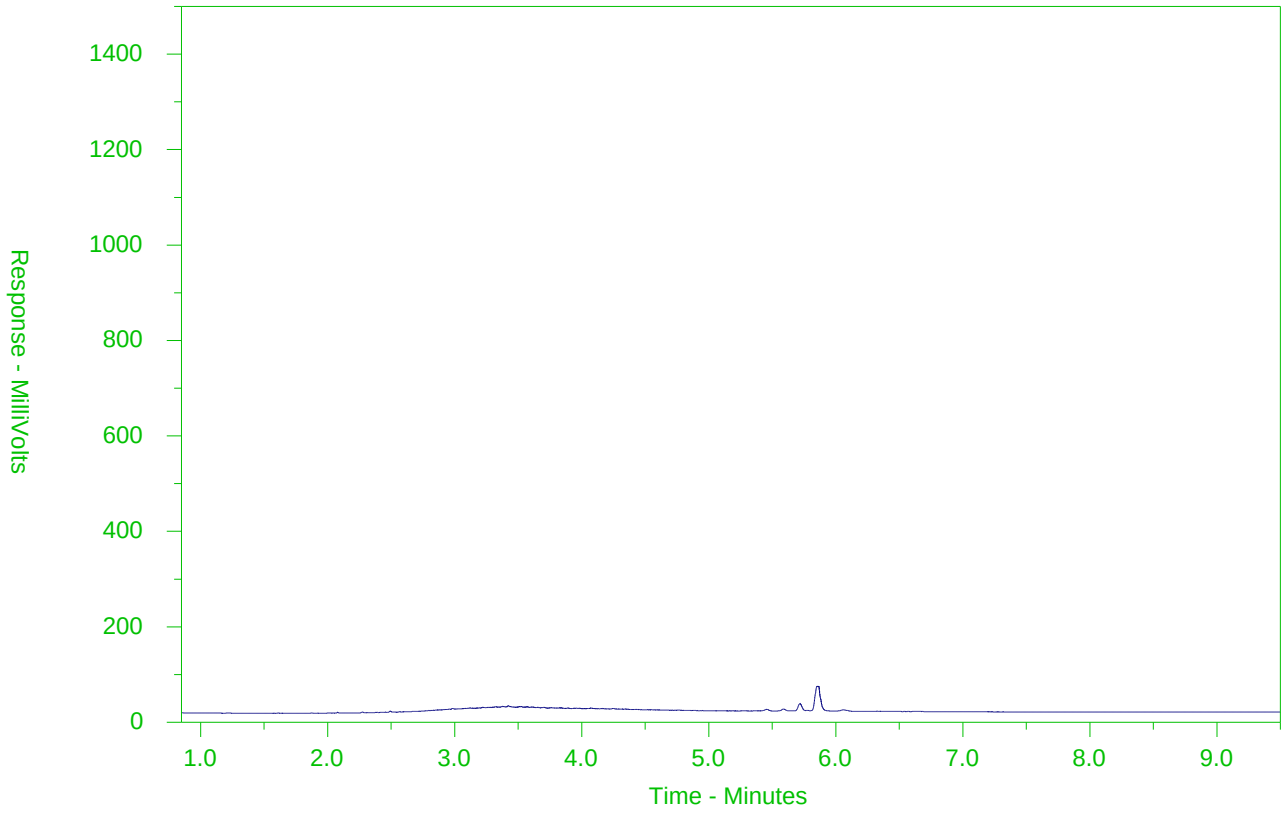
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

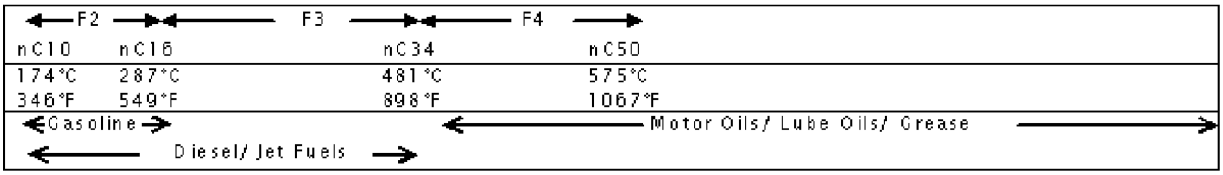
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-37
Client Sample ID: BH22-07 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

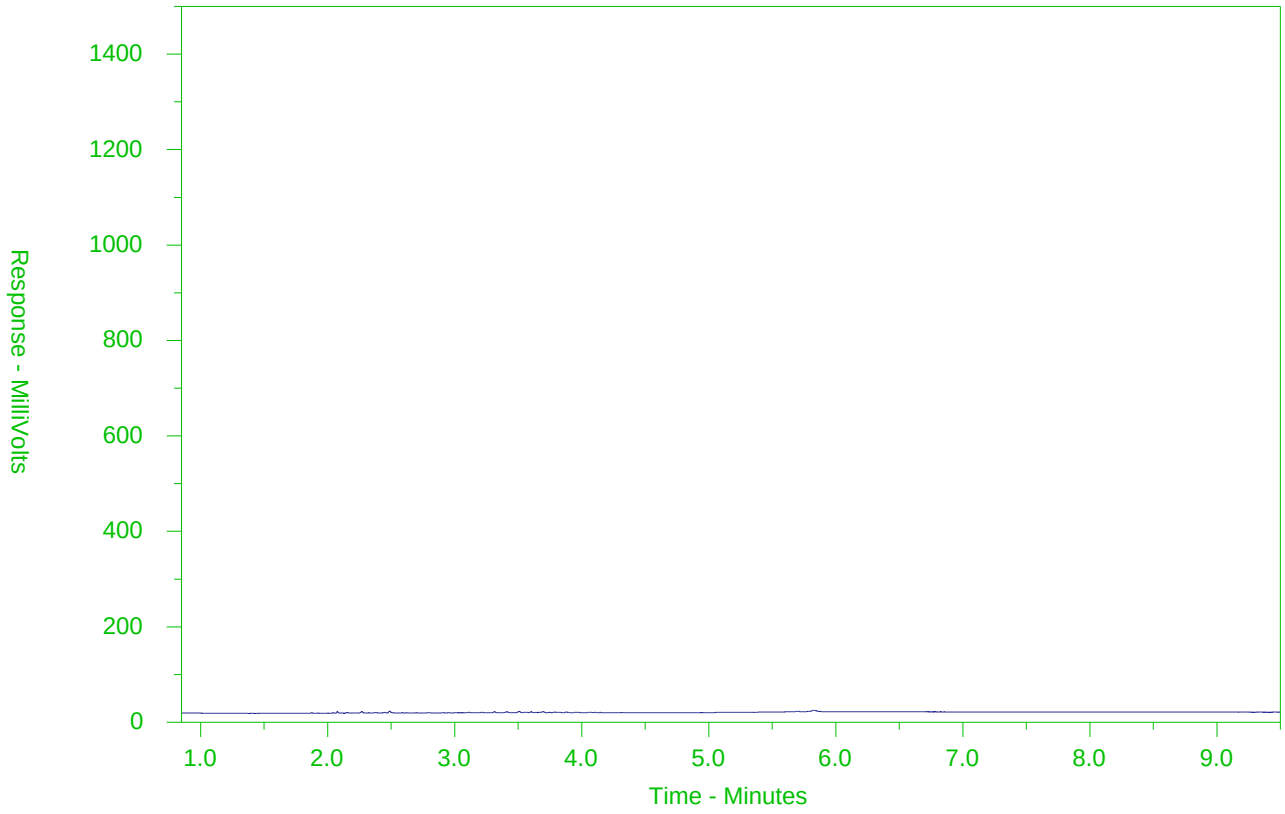
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

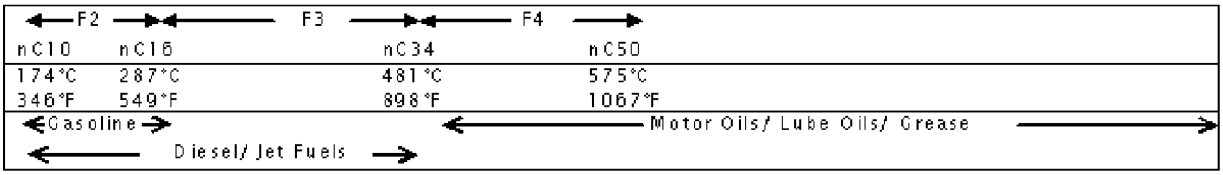
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-38
Client Sample ID: BH22-07 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

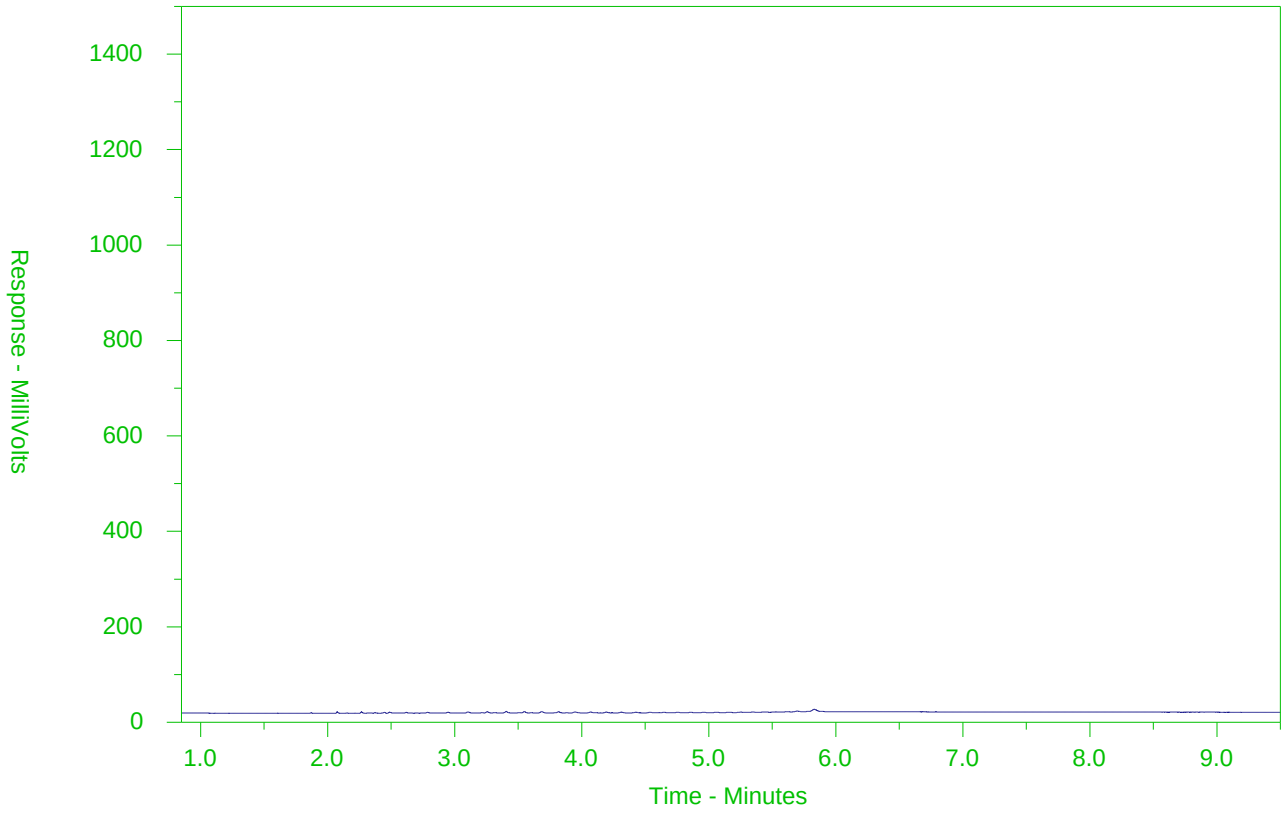
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

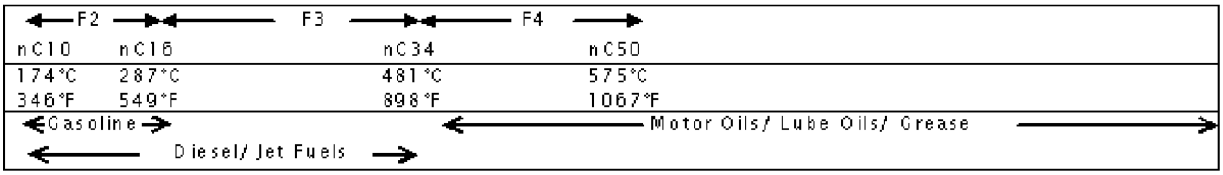
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-39
Client Sample ID: BH22-07 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

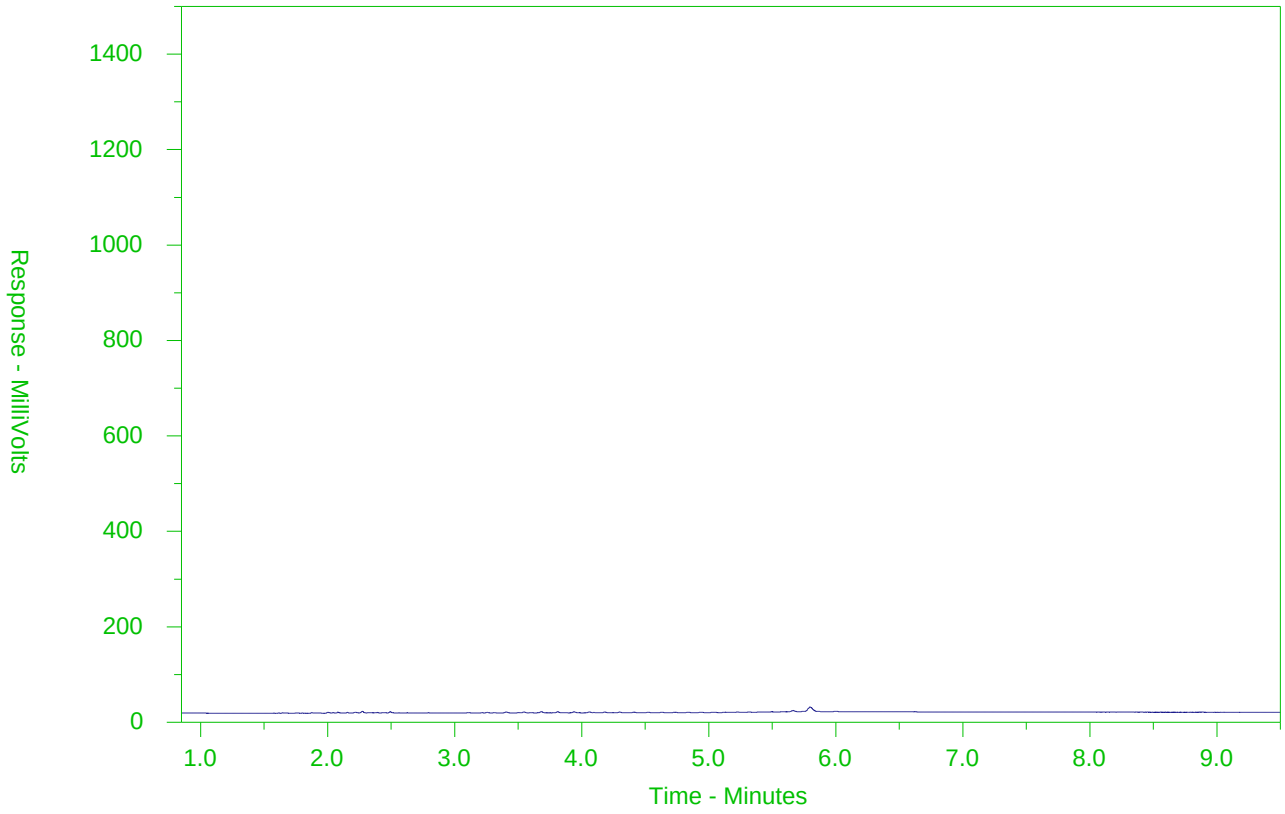
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

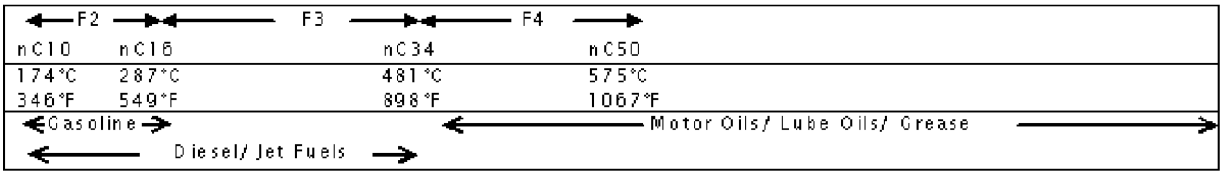
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-40
Client Sample ID: BH22-07 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

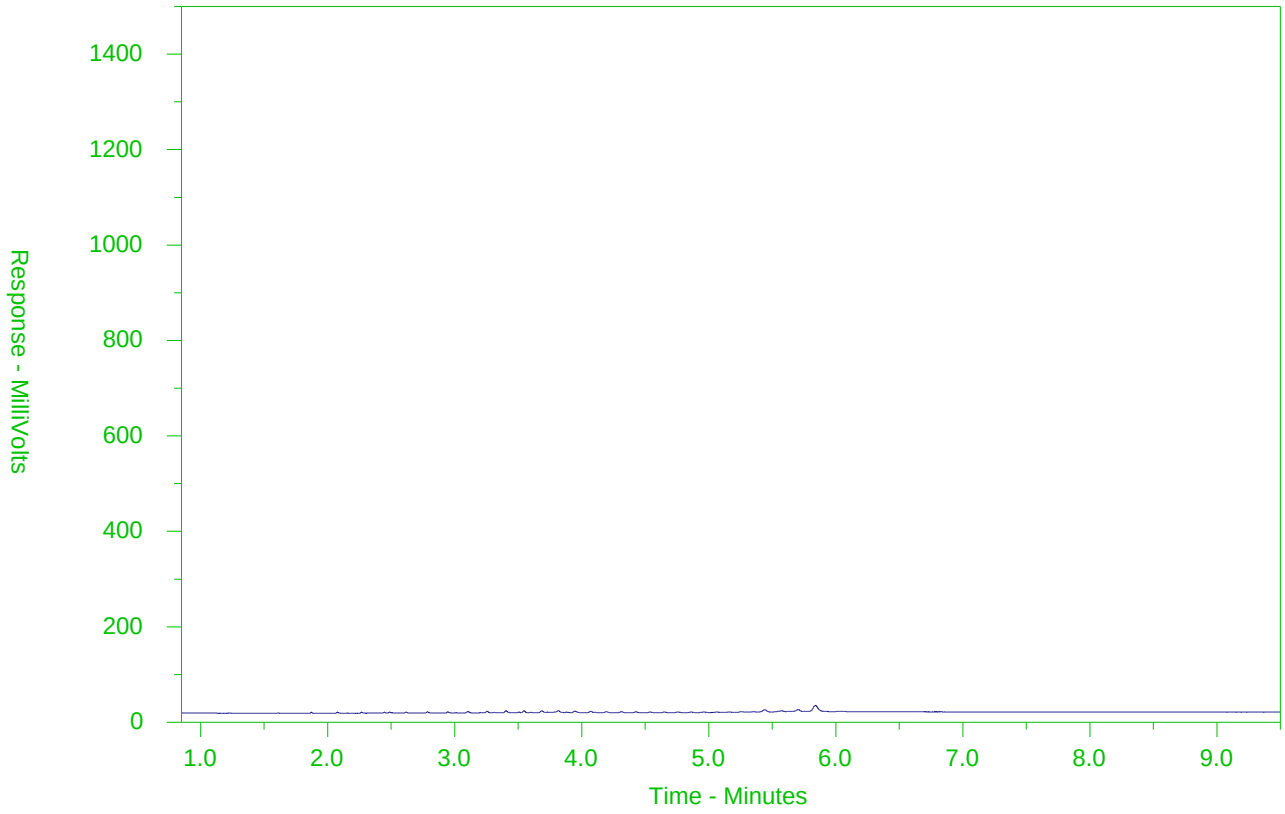
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

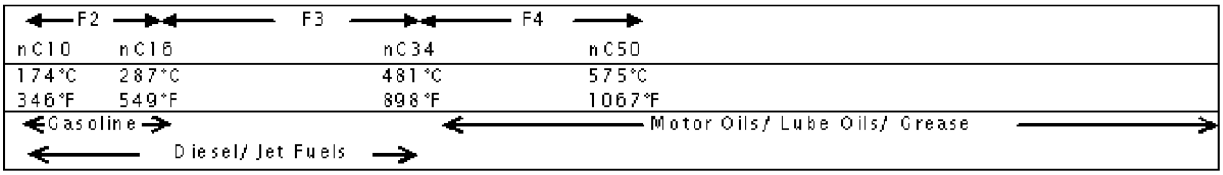
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-42
Client Sample ID: BH22-02 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

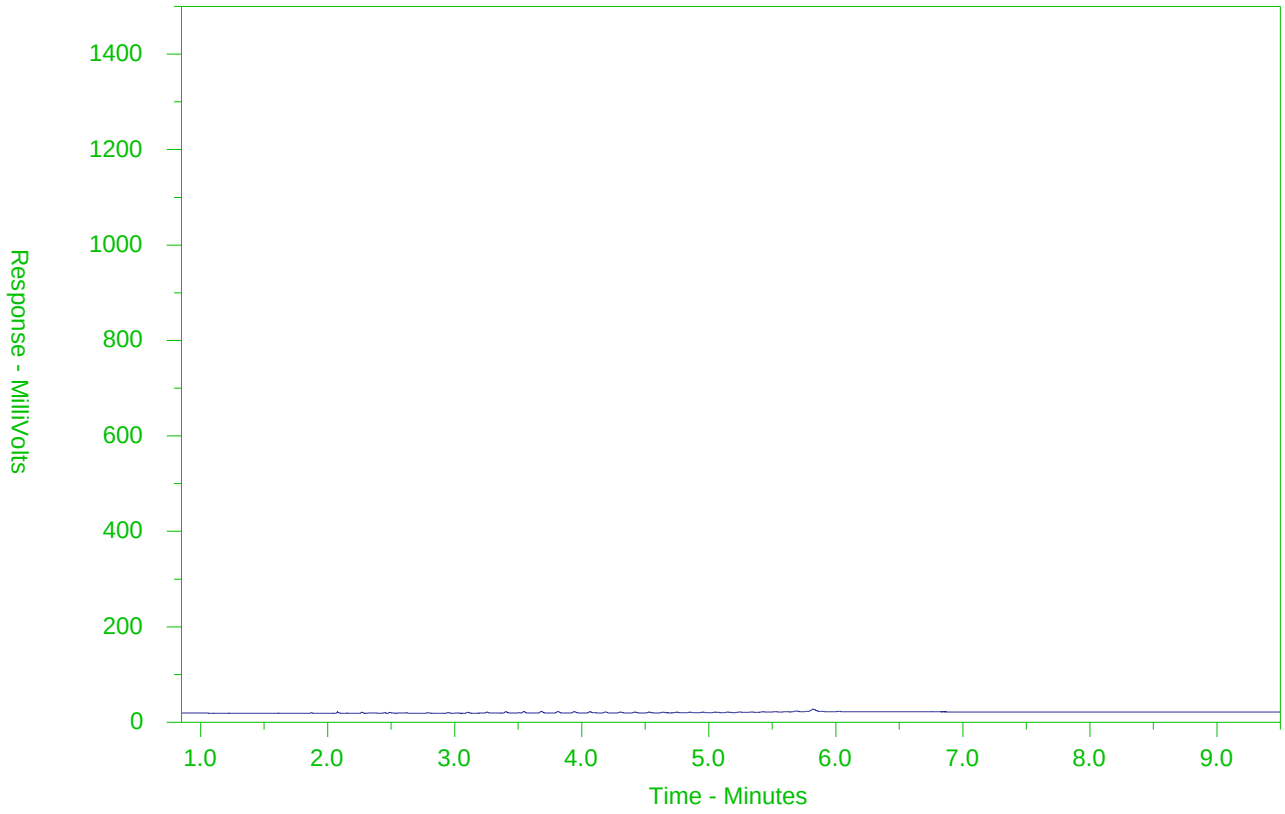
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

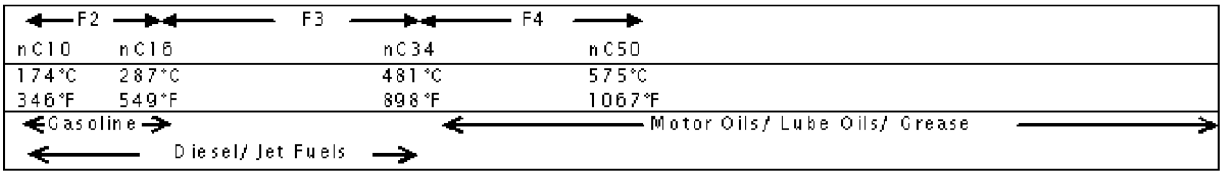
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-43
Client Sample ID: BH22-02 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

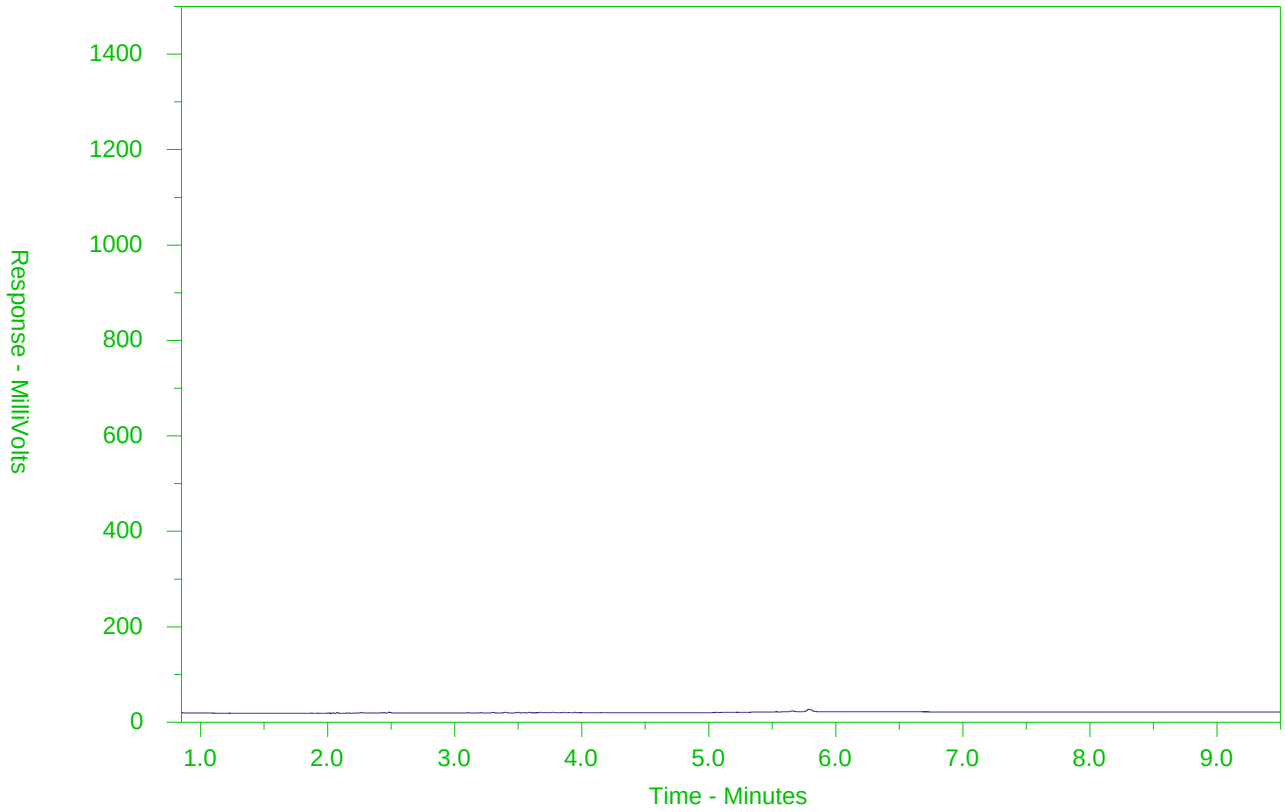
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

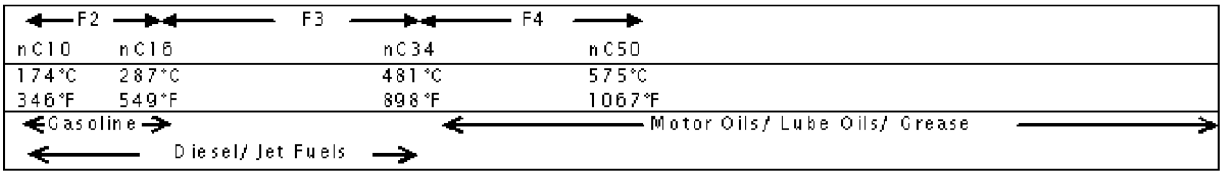
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-44
Client Sample ID: BH22-06 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

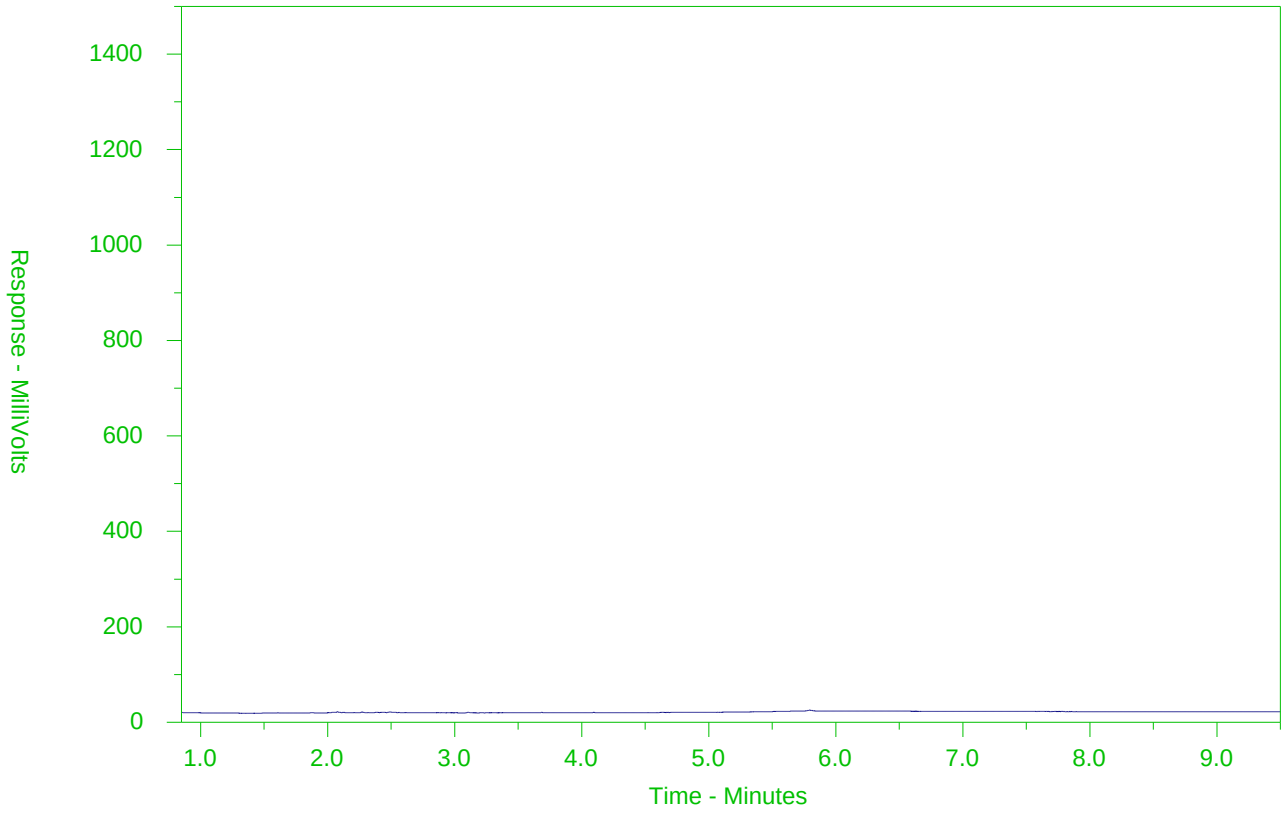
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

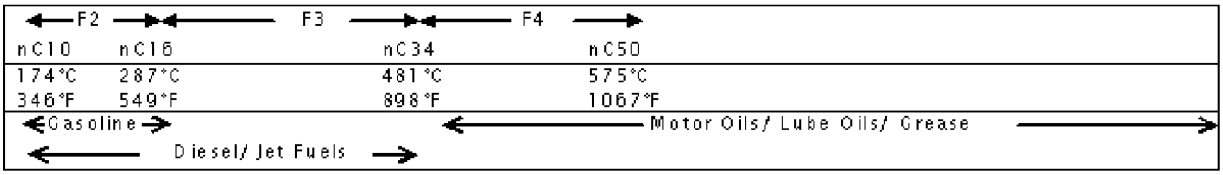
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-45
Client Sample ID: BH22-06 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

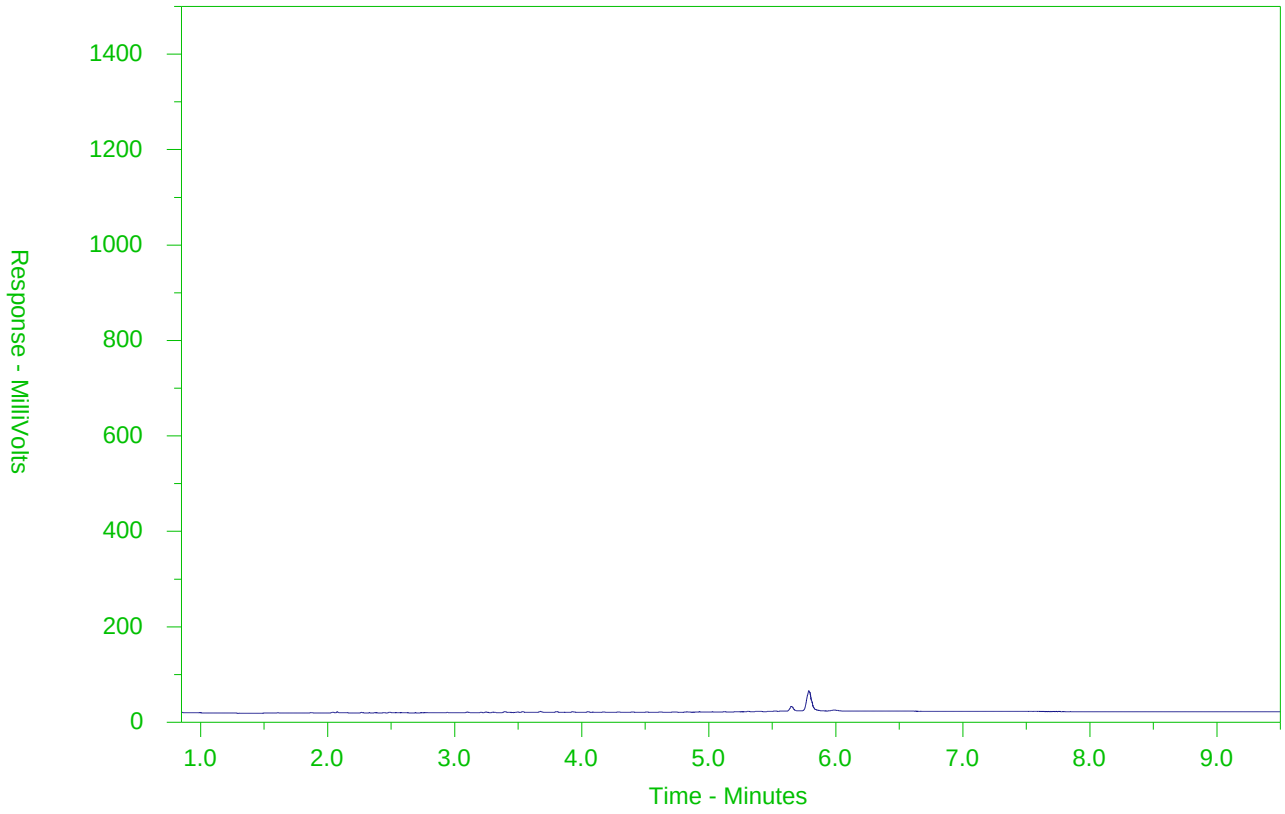
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

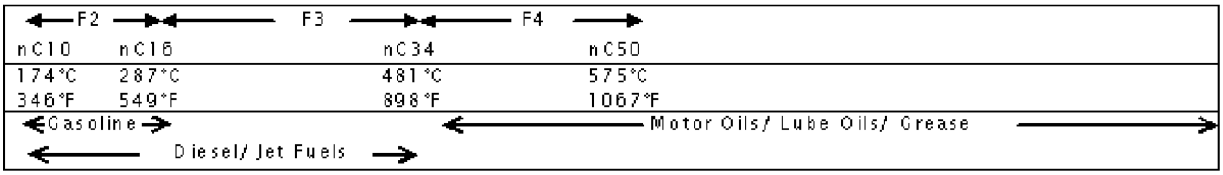
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-46
Client Sample ID: BH22-06 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

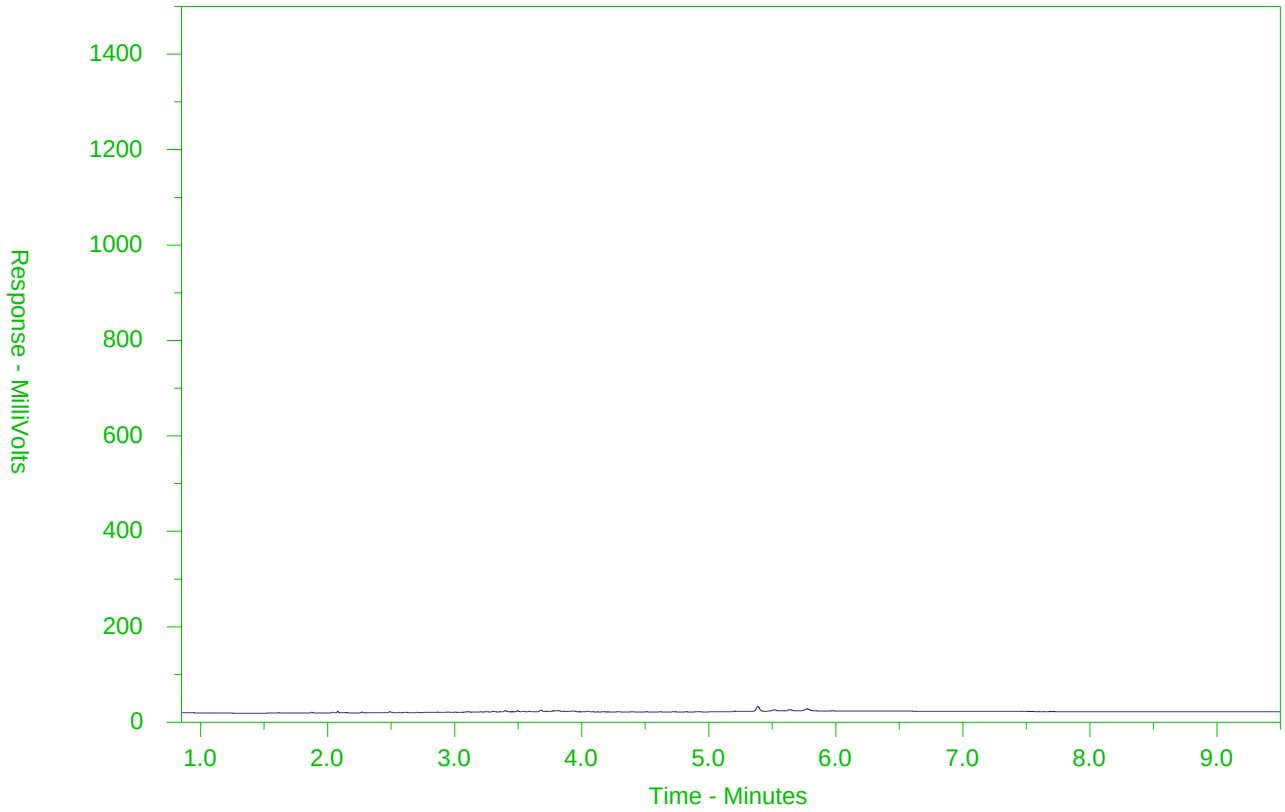
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

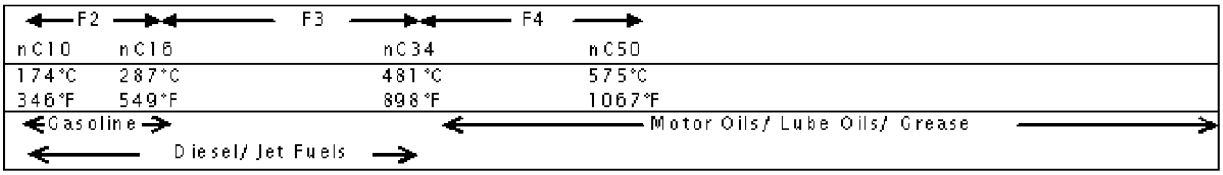
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-47
Client Sample ID: BH22-12 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

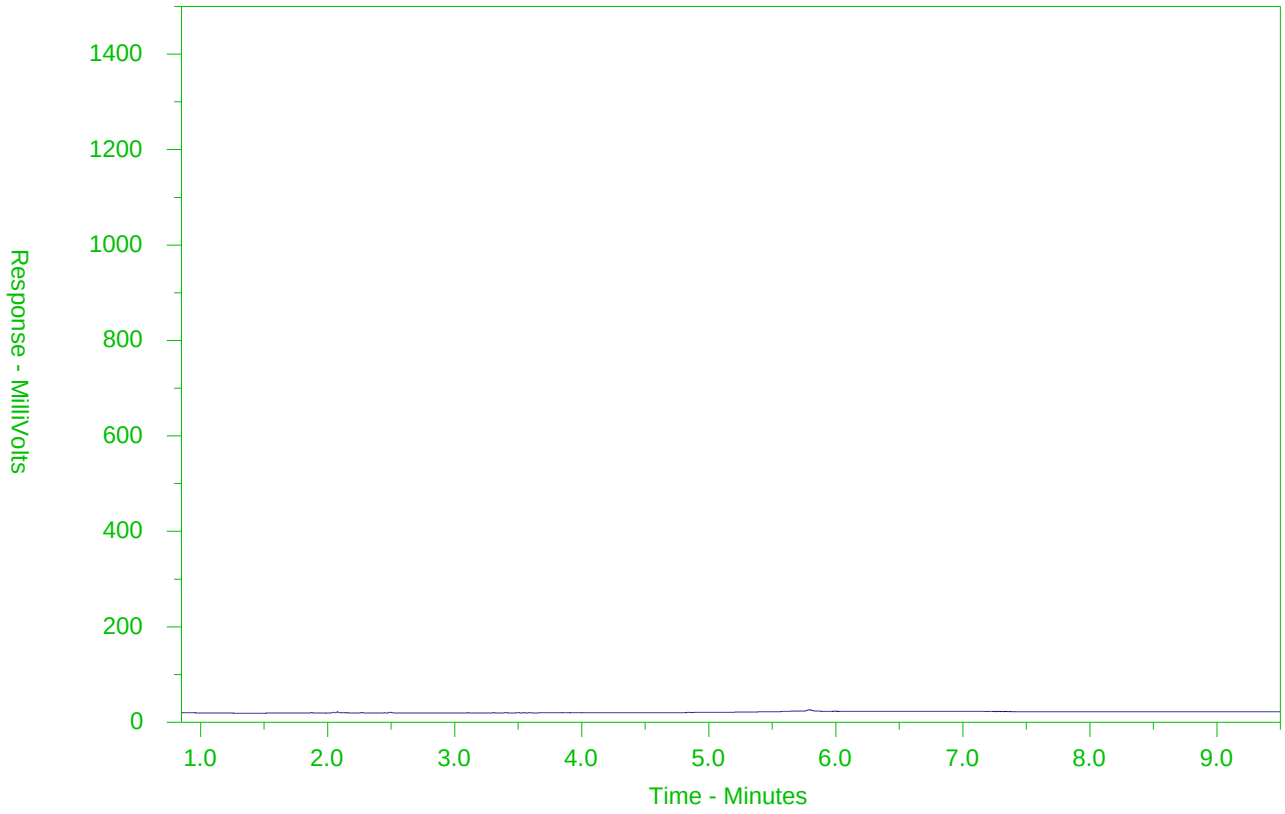
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

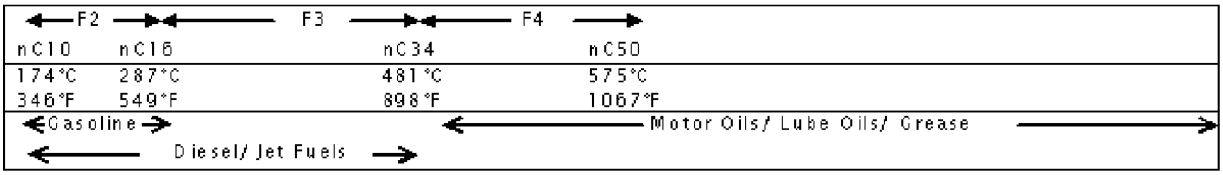
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-48
Client Sample ID: BH22-12 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

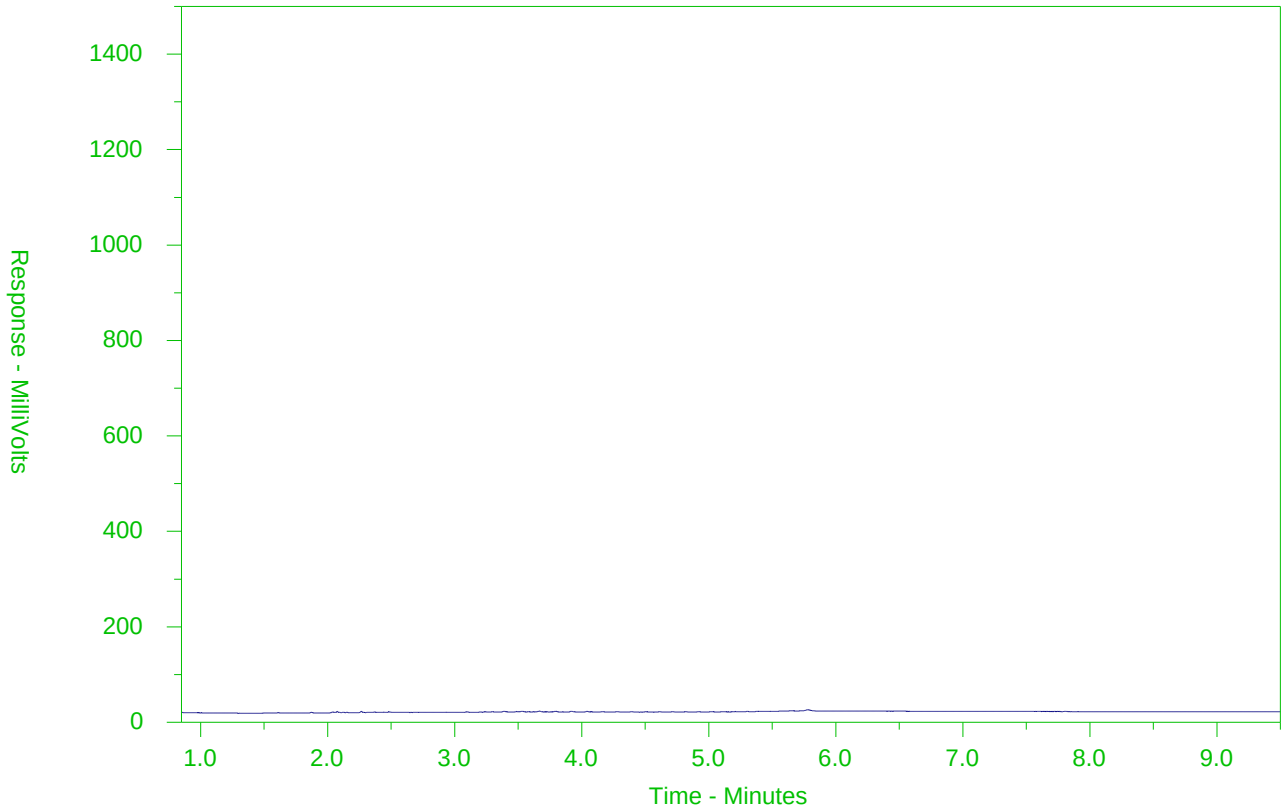
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

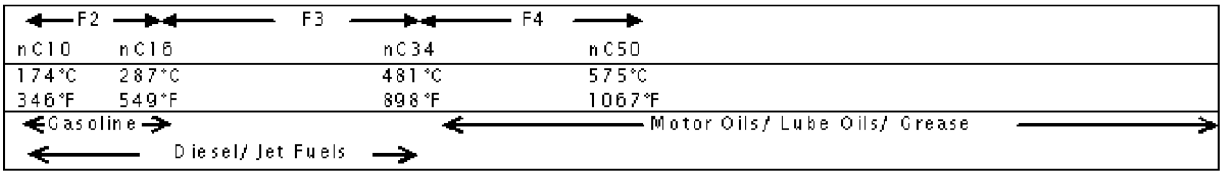
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-49
Client Sample ID: BH22-12 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

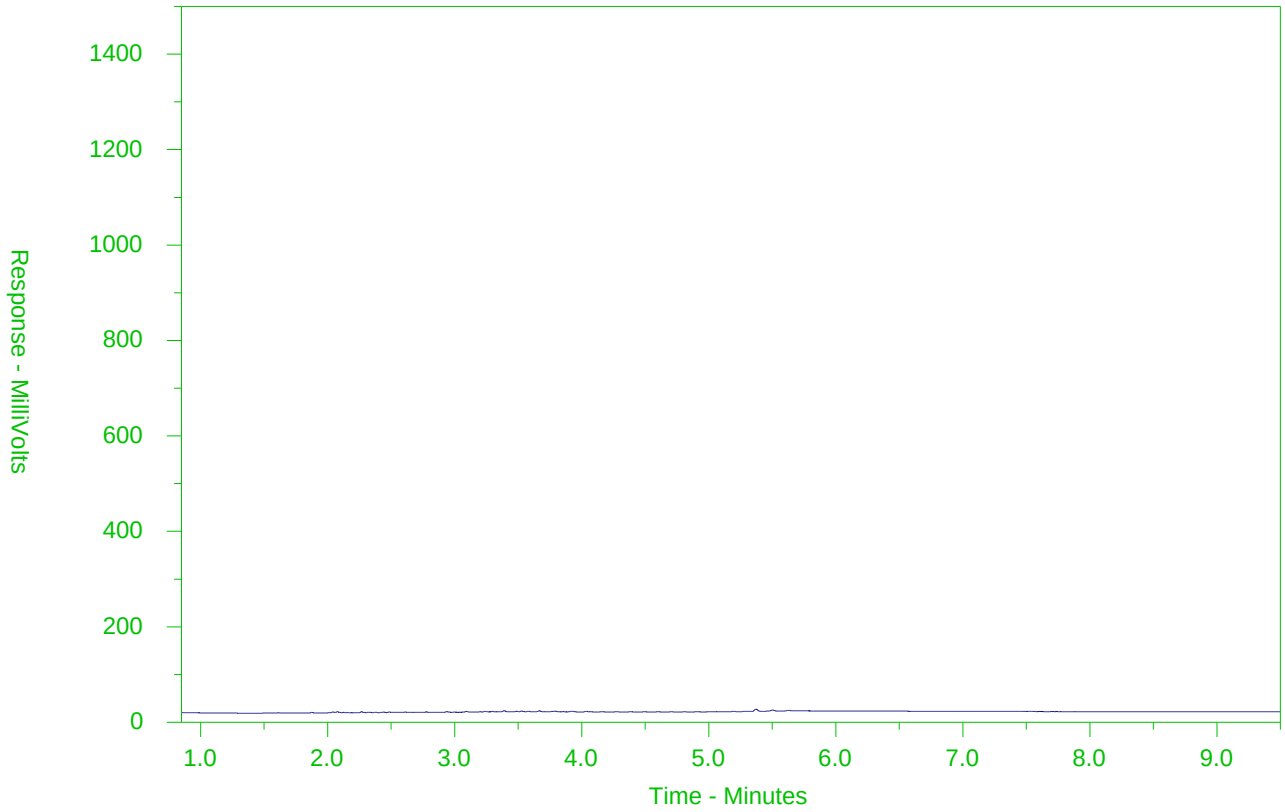
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

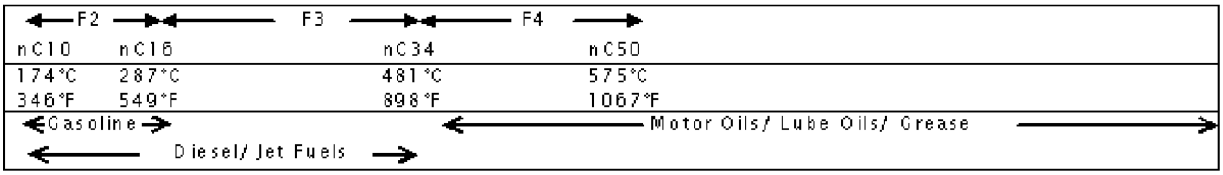
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-50
Client Sample ID: BH22-14 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

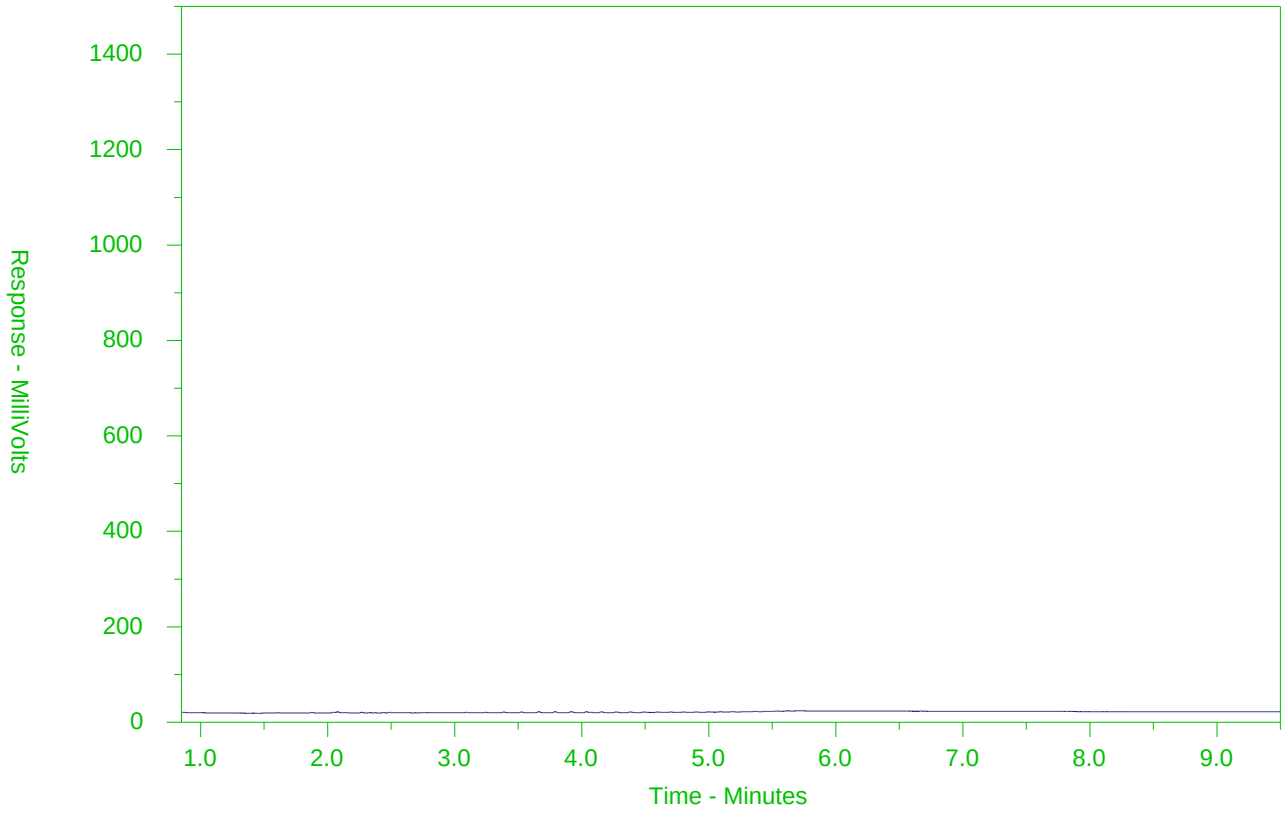
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

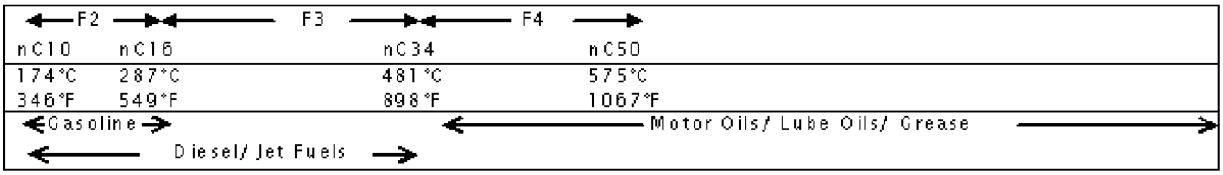
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-51
Client Sample ID: BH22-14 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

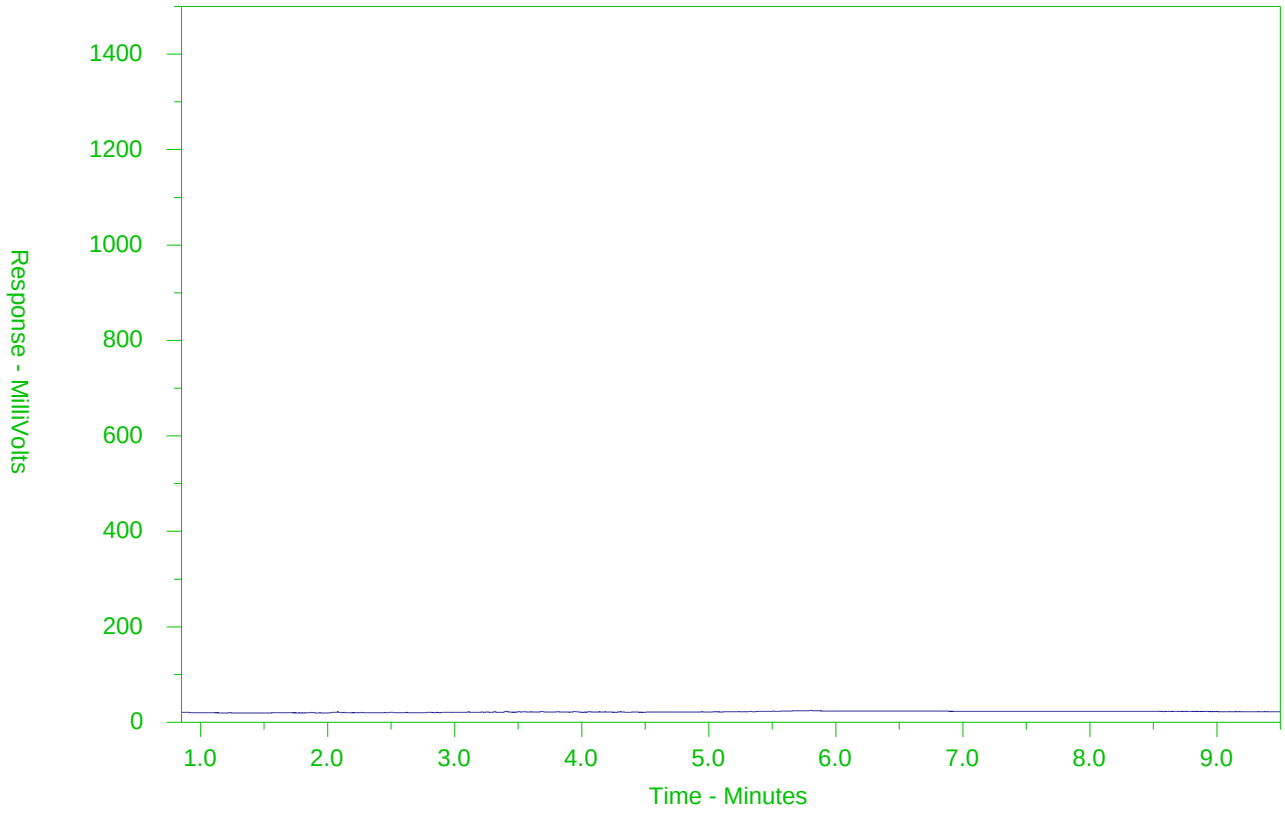
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

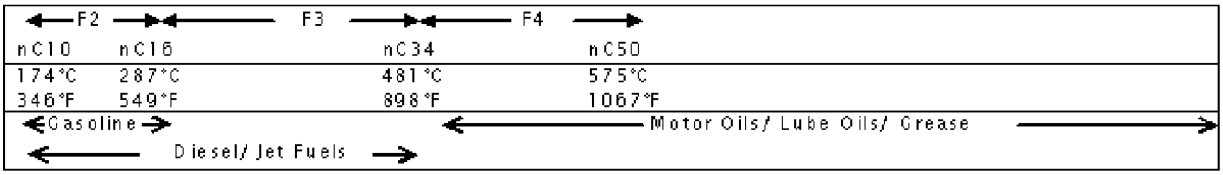
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-52
Client Sample ID: BH22-14 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

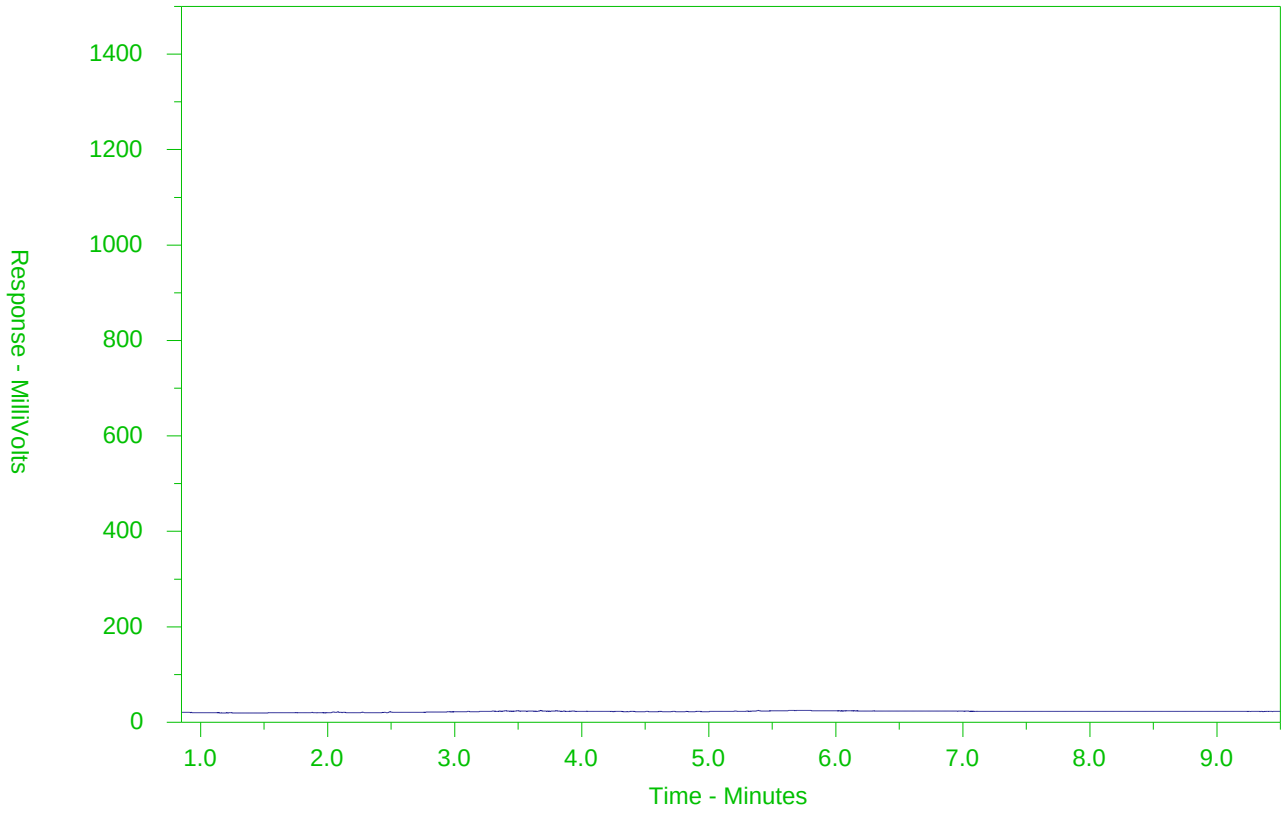
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

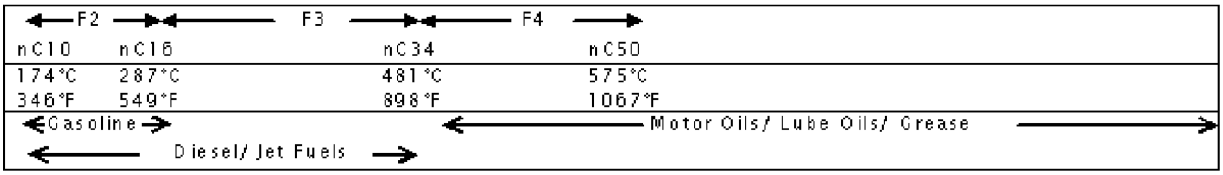
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-53
Client Sample ID: BH22-14 SS14





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

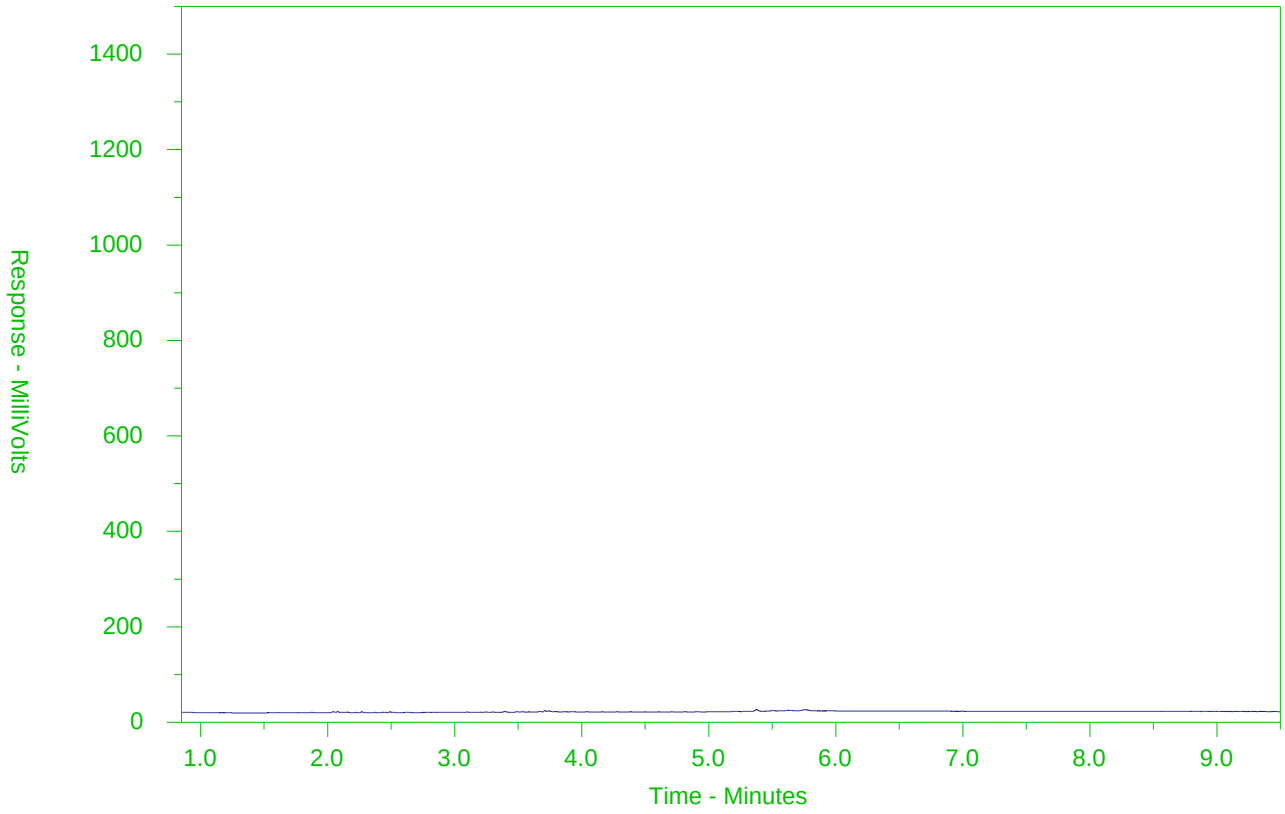
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

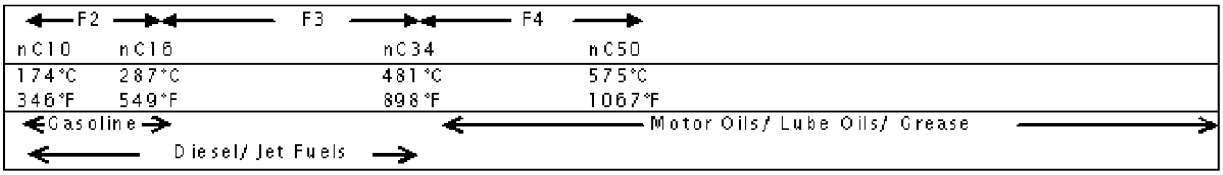
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-54
Client Sample ID: BH22-19 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

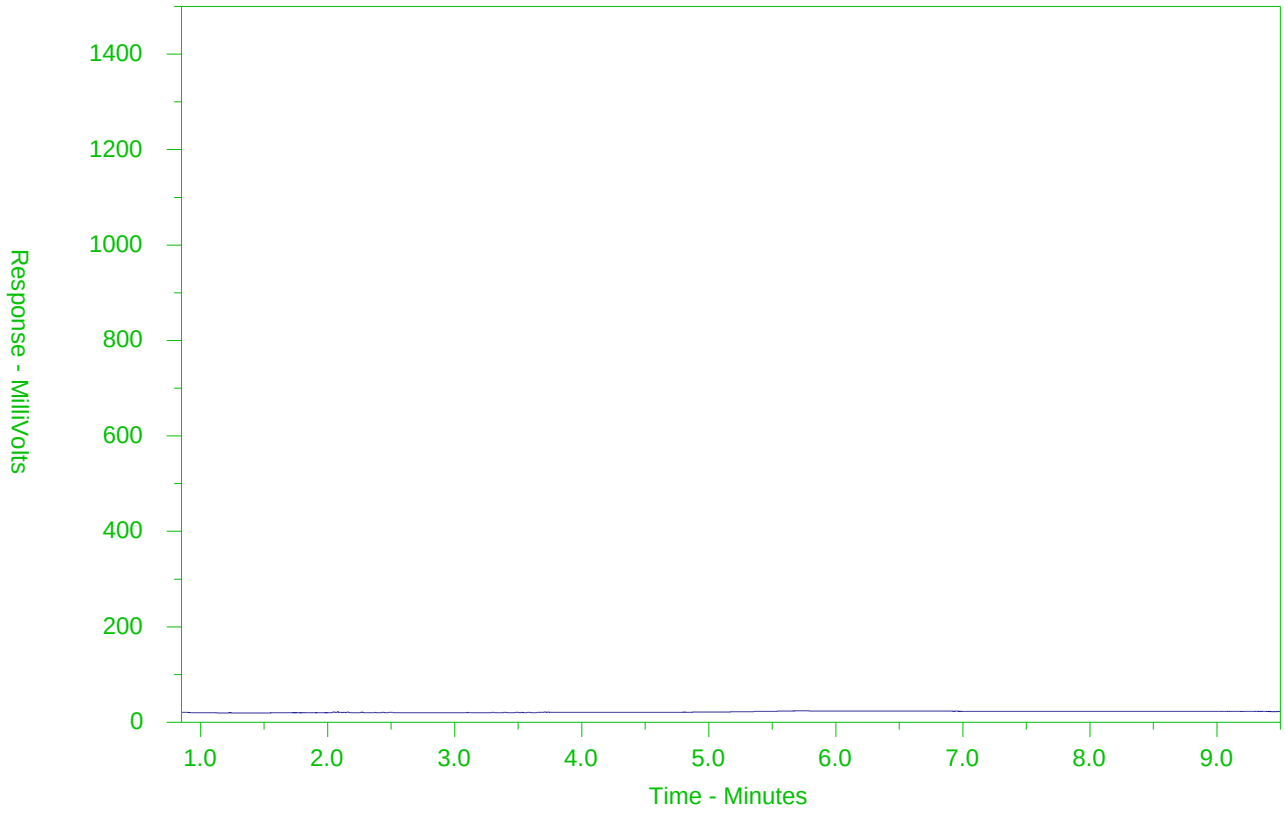
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

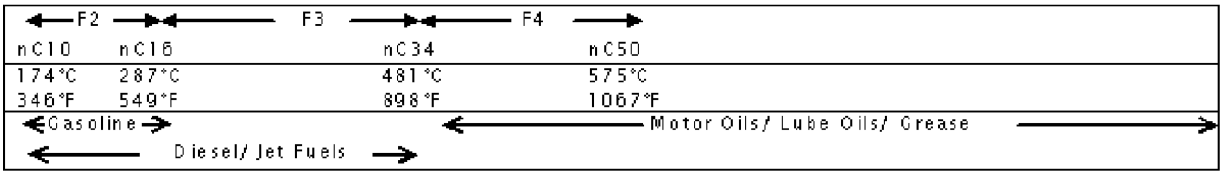
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-55
Client Sample ID: BH22-19 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

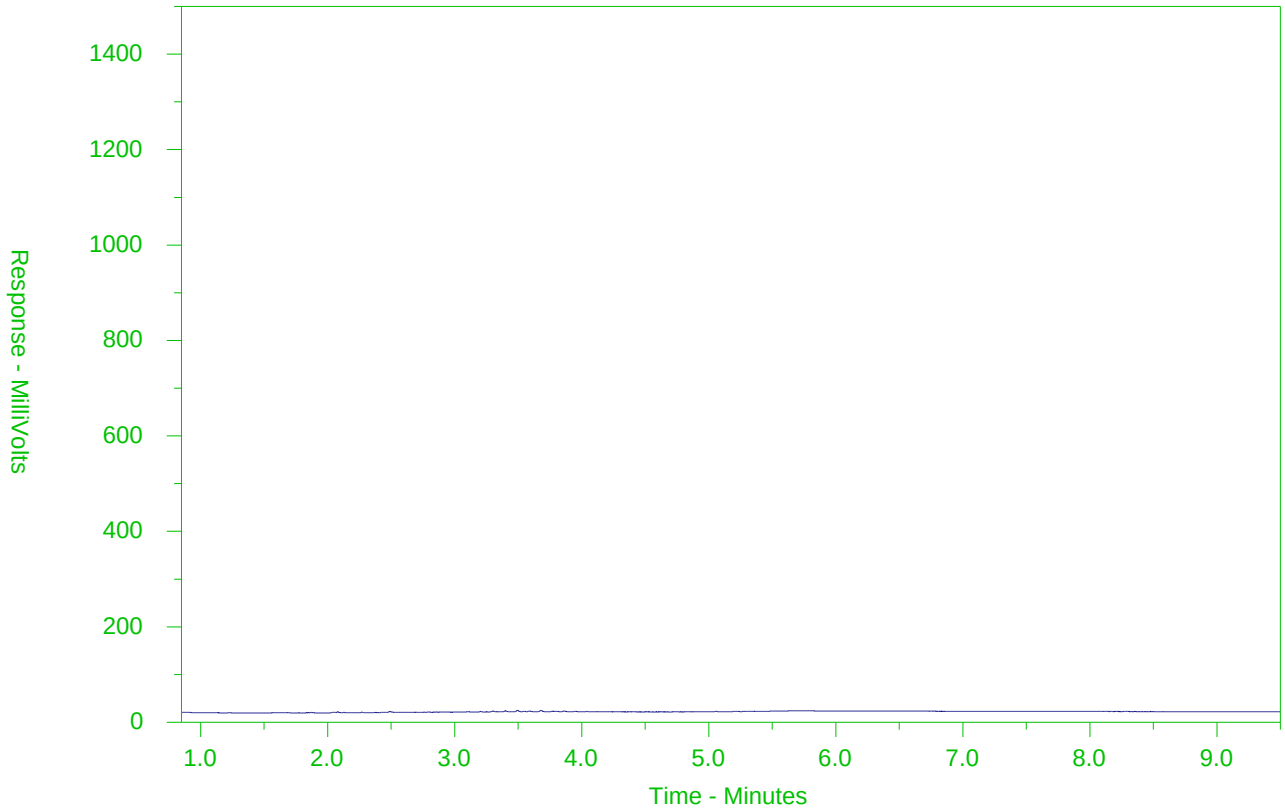
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

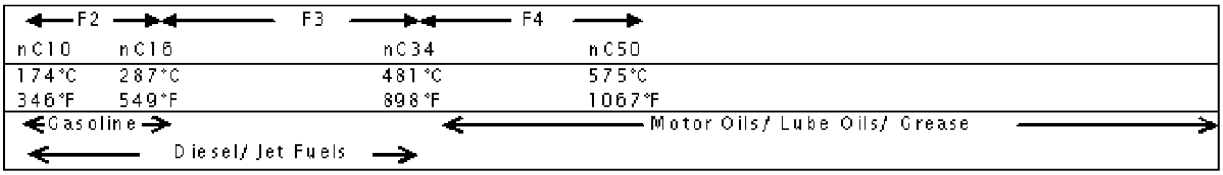
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-56
Client Sample ID: BH22-19 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

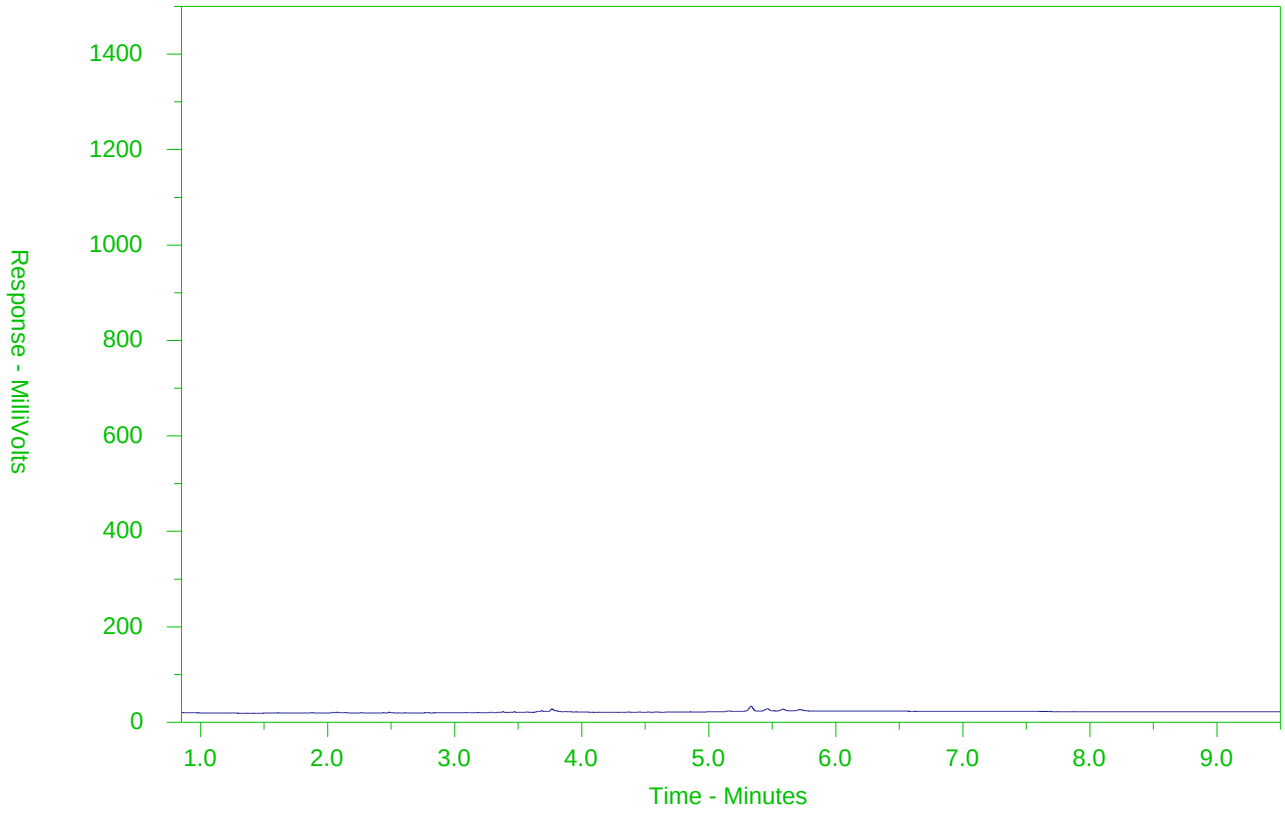
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

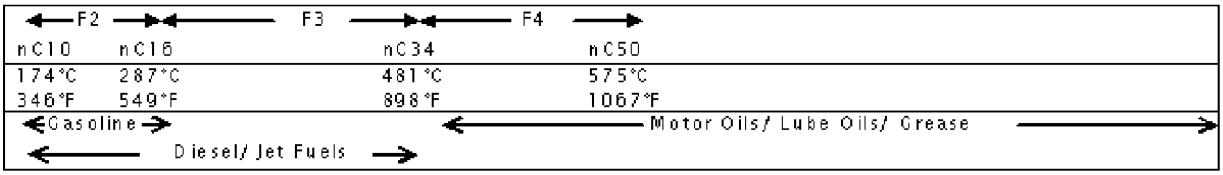
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-57
Client Sample ID: ST-A1





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

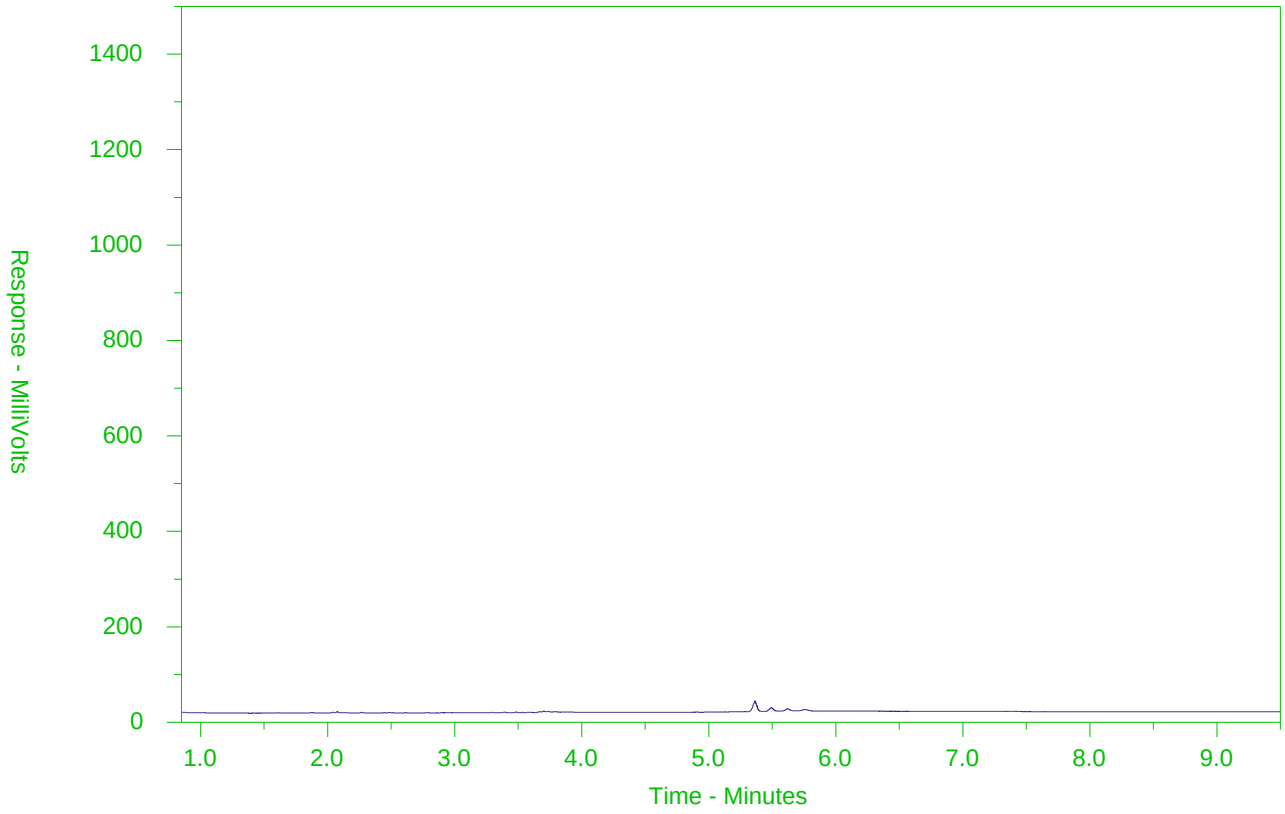
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

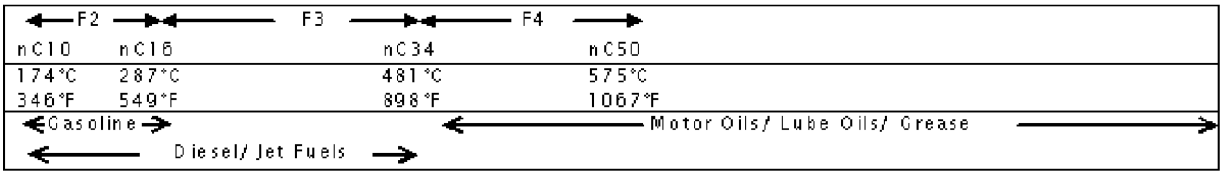
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-58
Client Sample ID: ST-A2





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

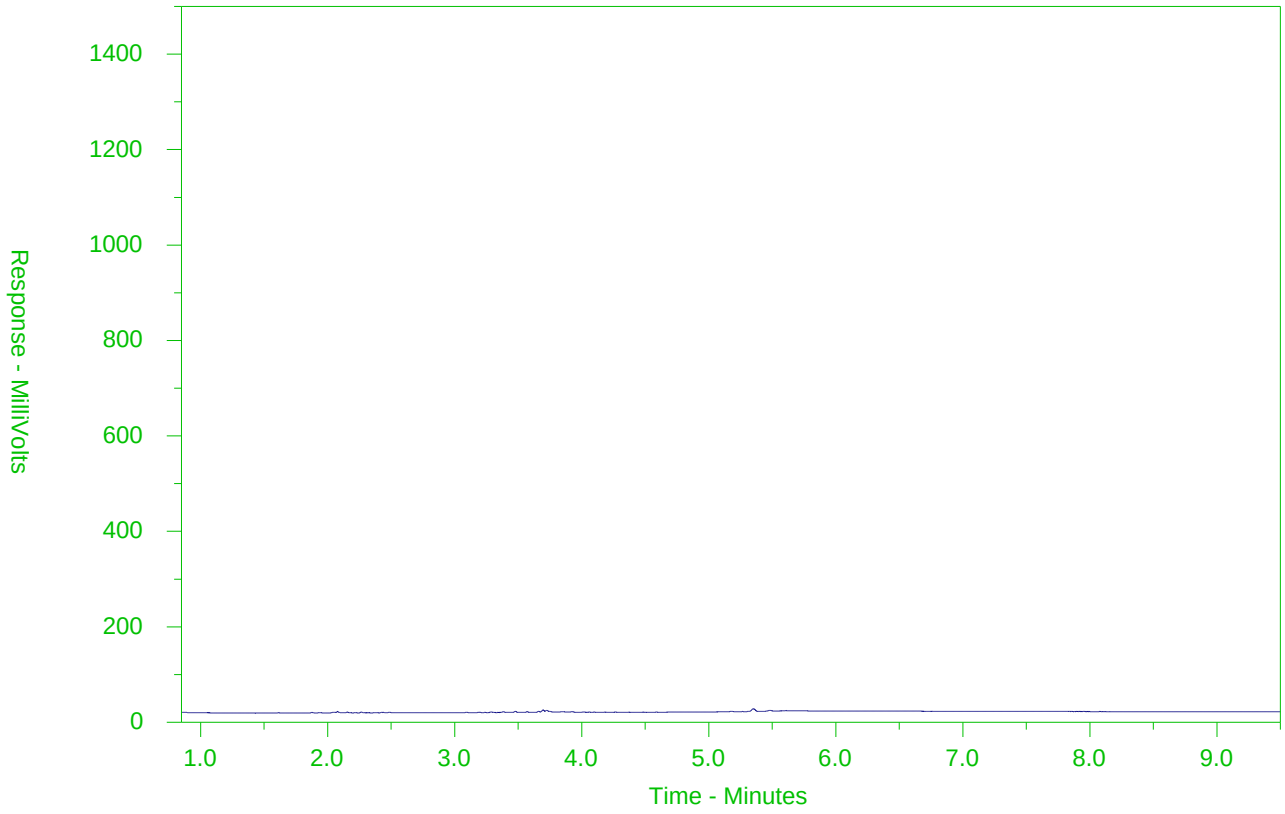
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

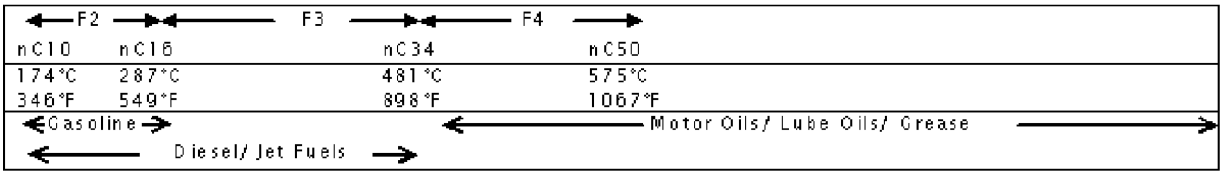
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-59
Client Sample ID: BH22-20 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

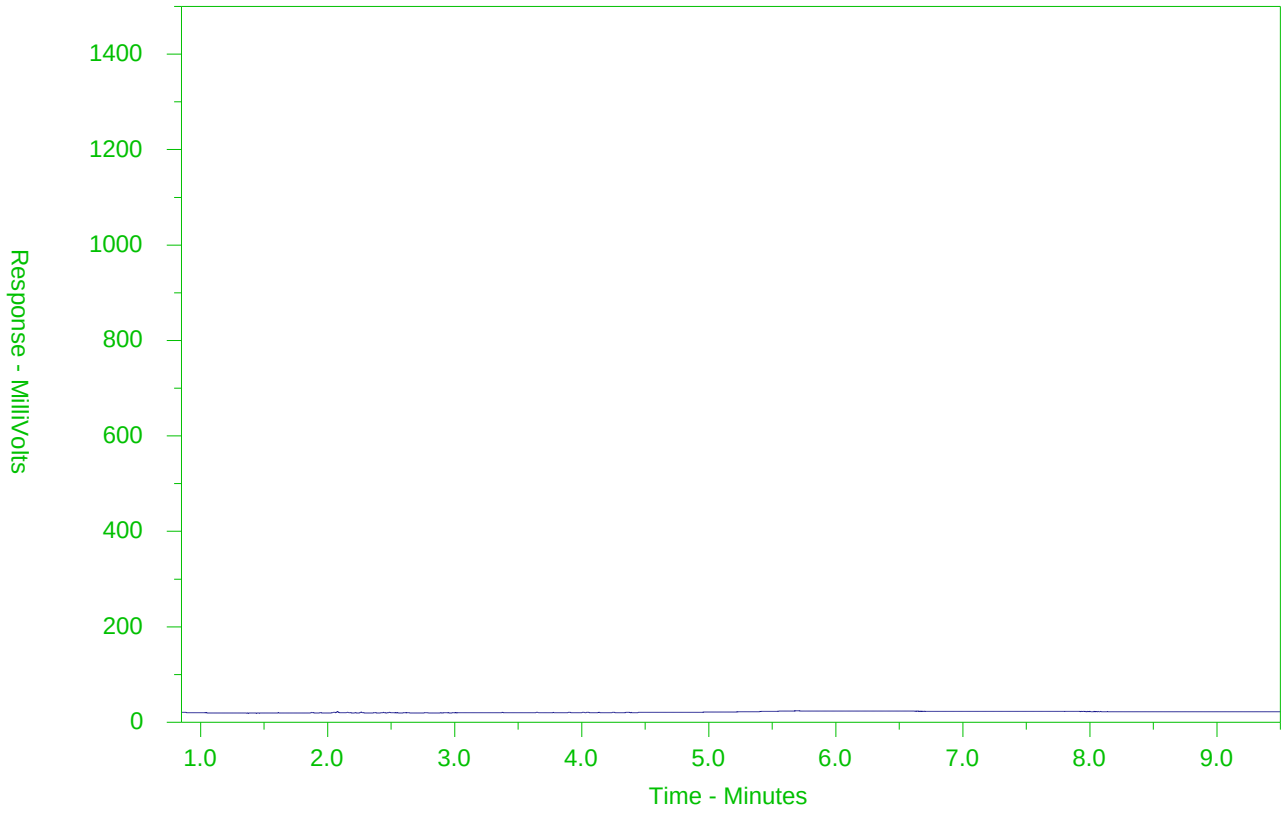
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

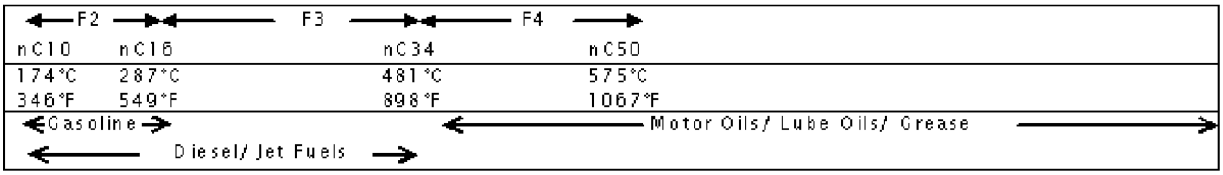
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-60
Client Sample ID: BH22-20 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

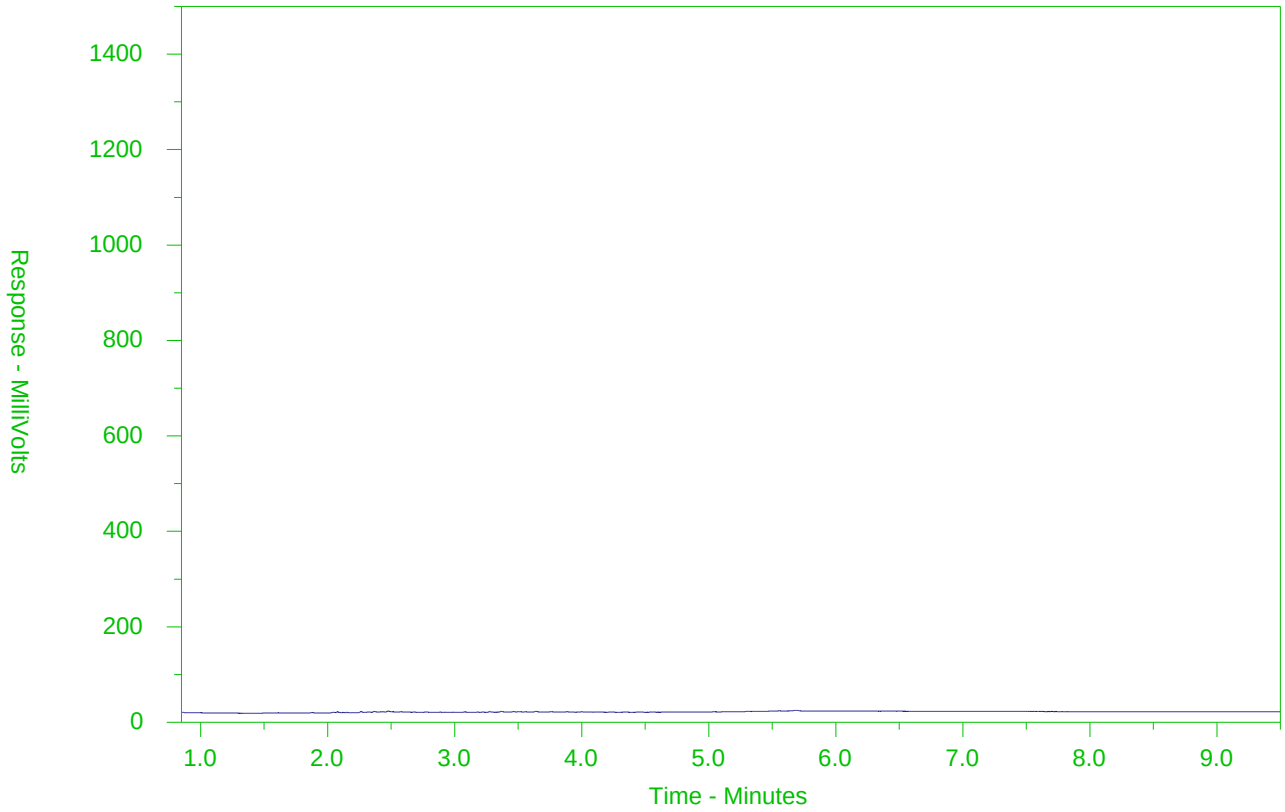
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

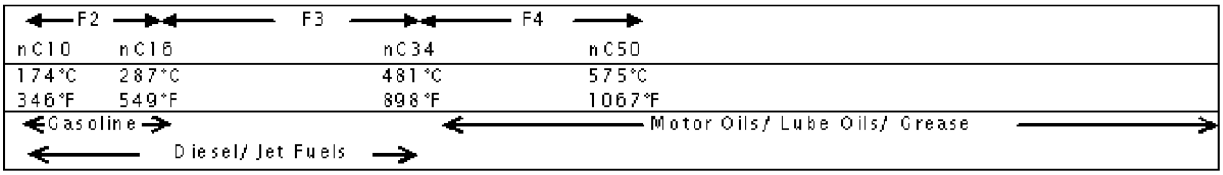
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-61
Client Sample ID: BH22-20 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

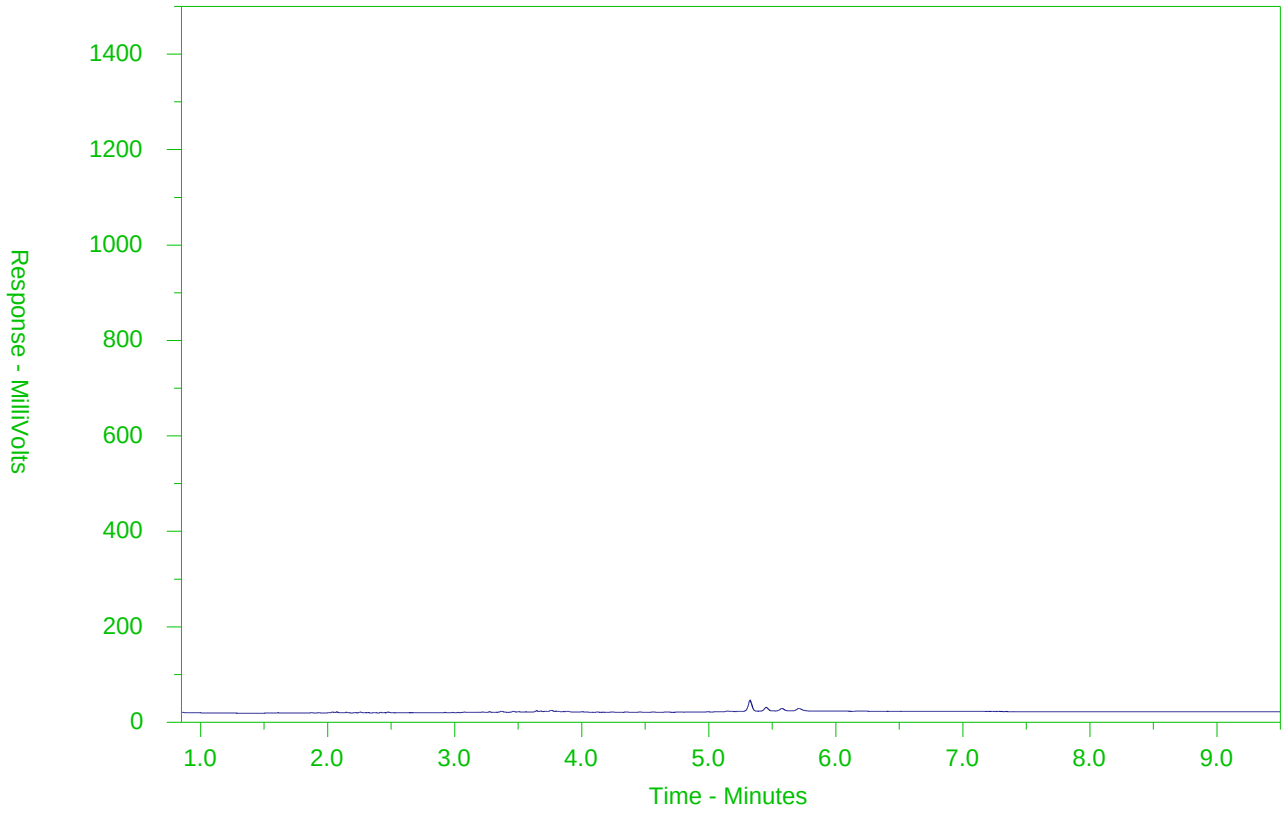
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

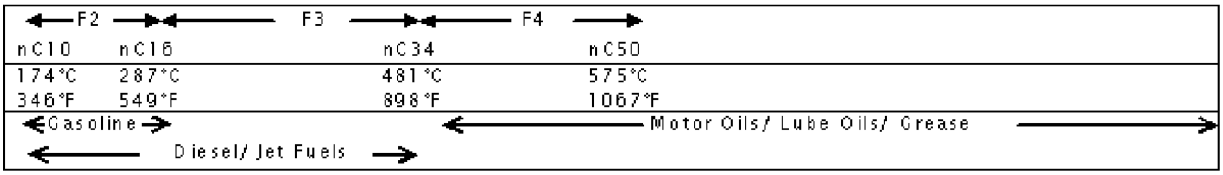
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-62
Client Sample ID: C-LD





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

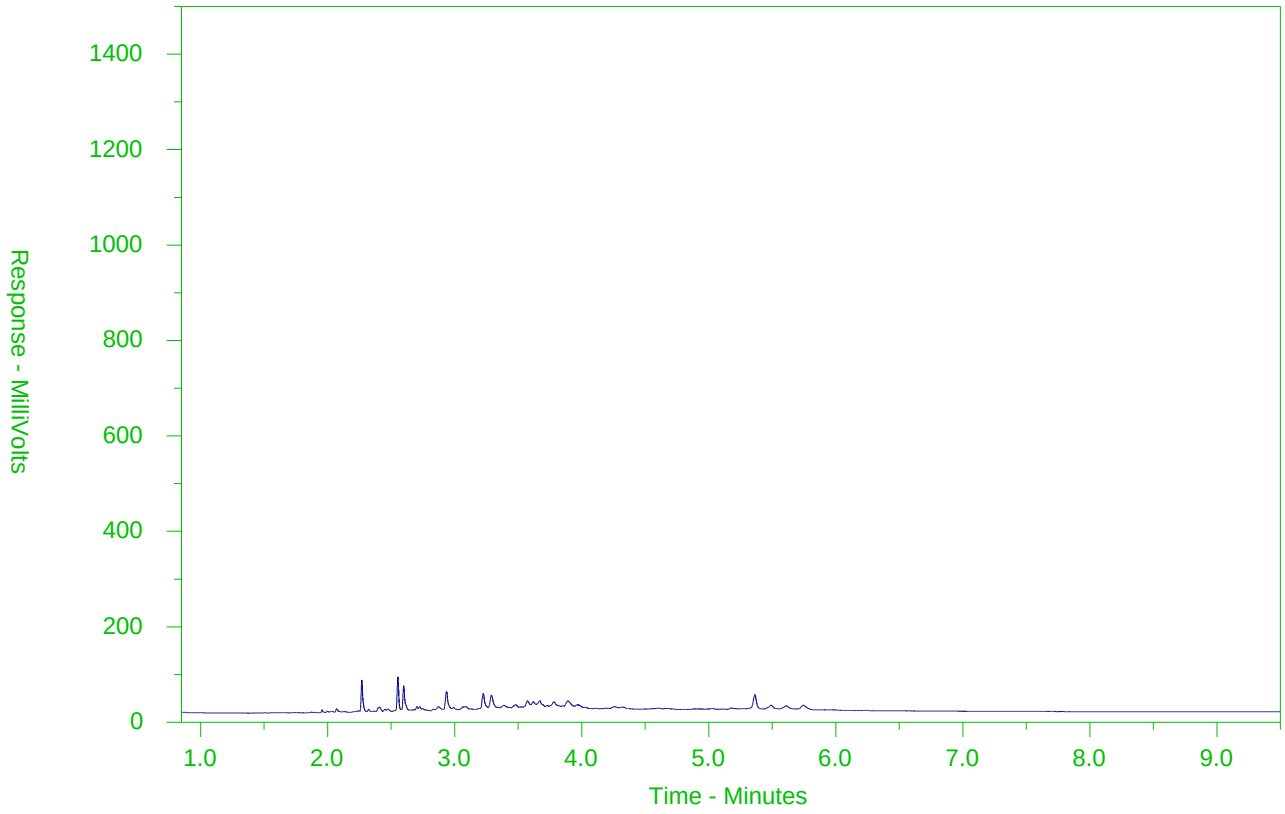
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

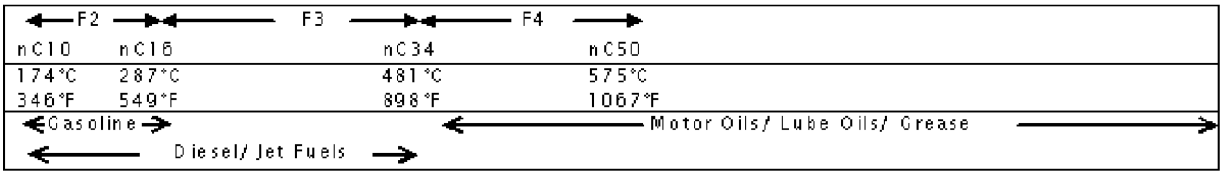
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-63
Client Sample ID: BH22-16 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

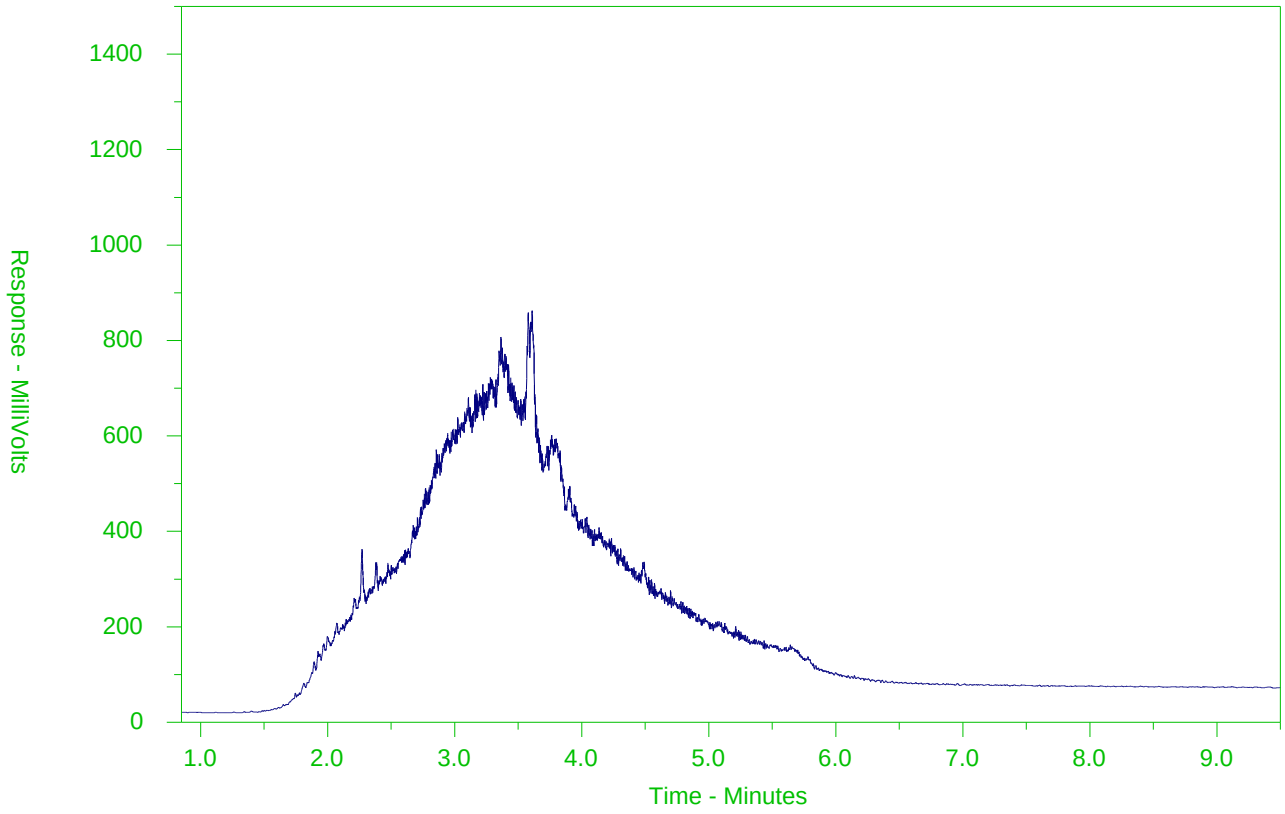
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

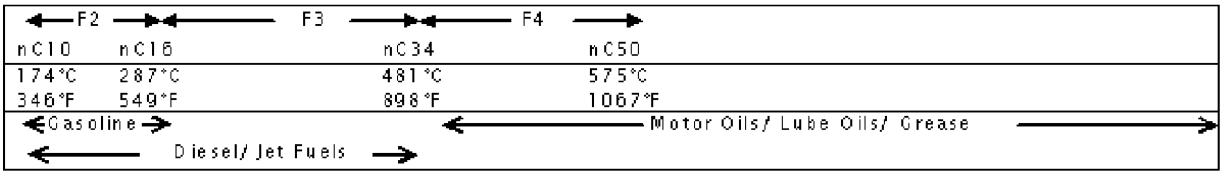
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-64
Client Sample ID: BH22-16 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

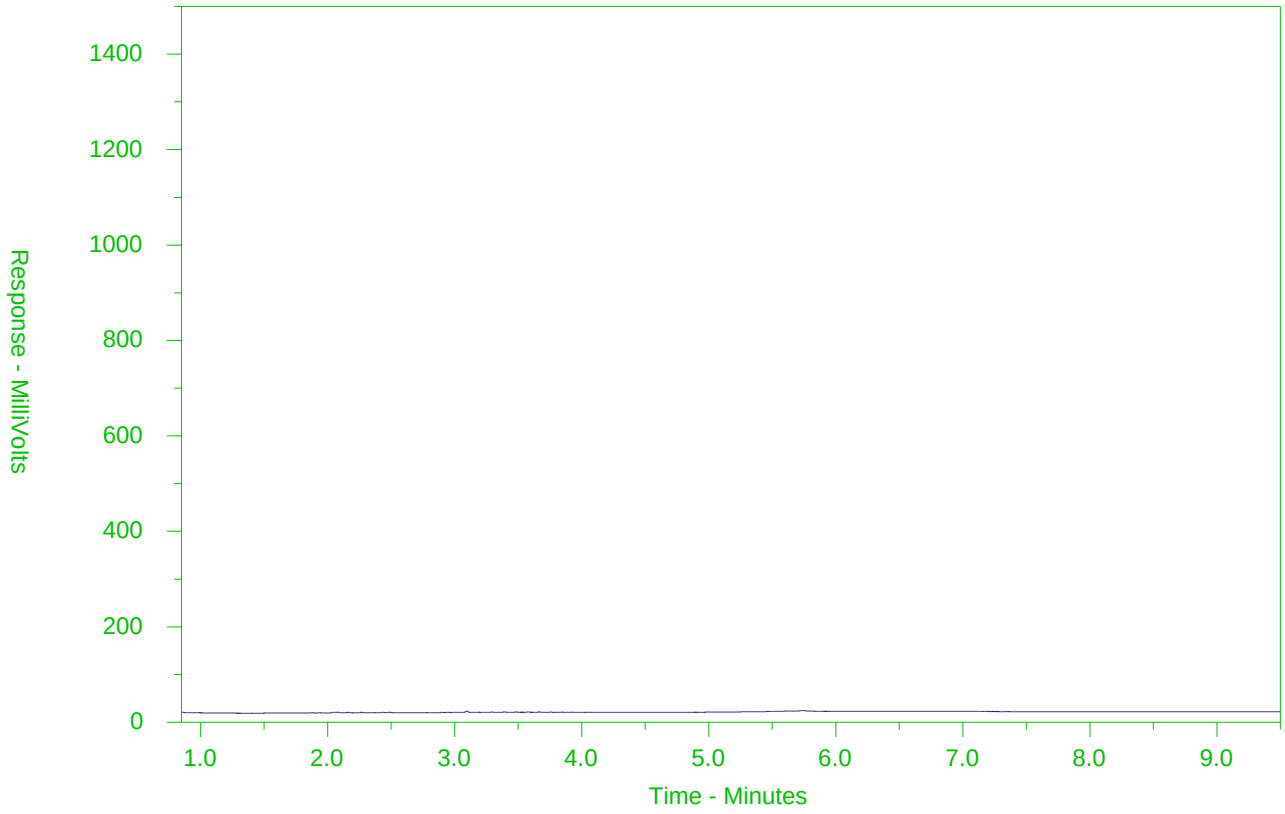
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

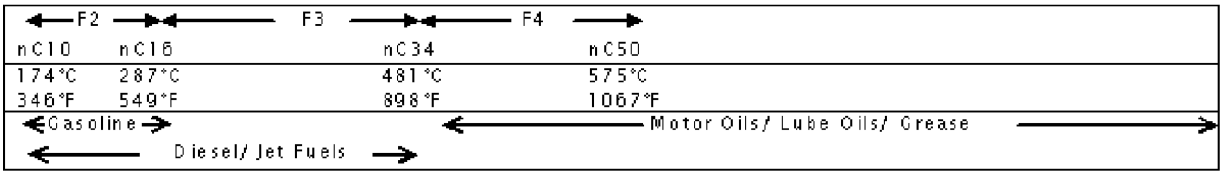
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-65
Client Sample ID: BH22-16 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

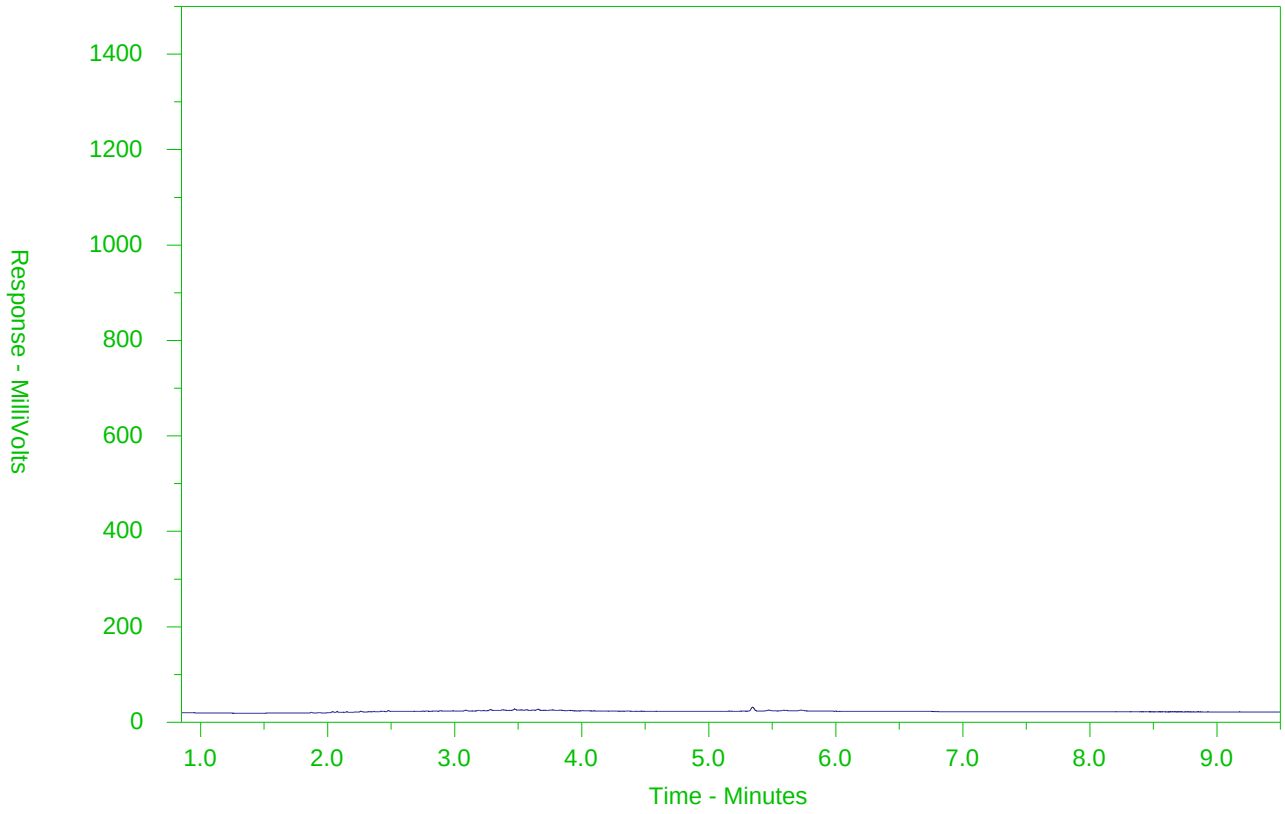
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

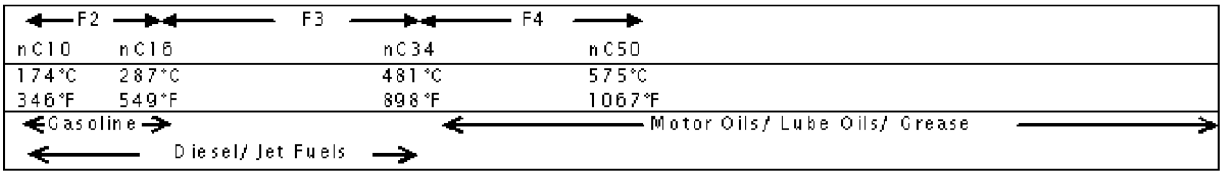
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-67
Client Sample ID: BH22-17 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

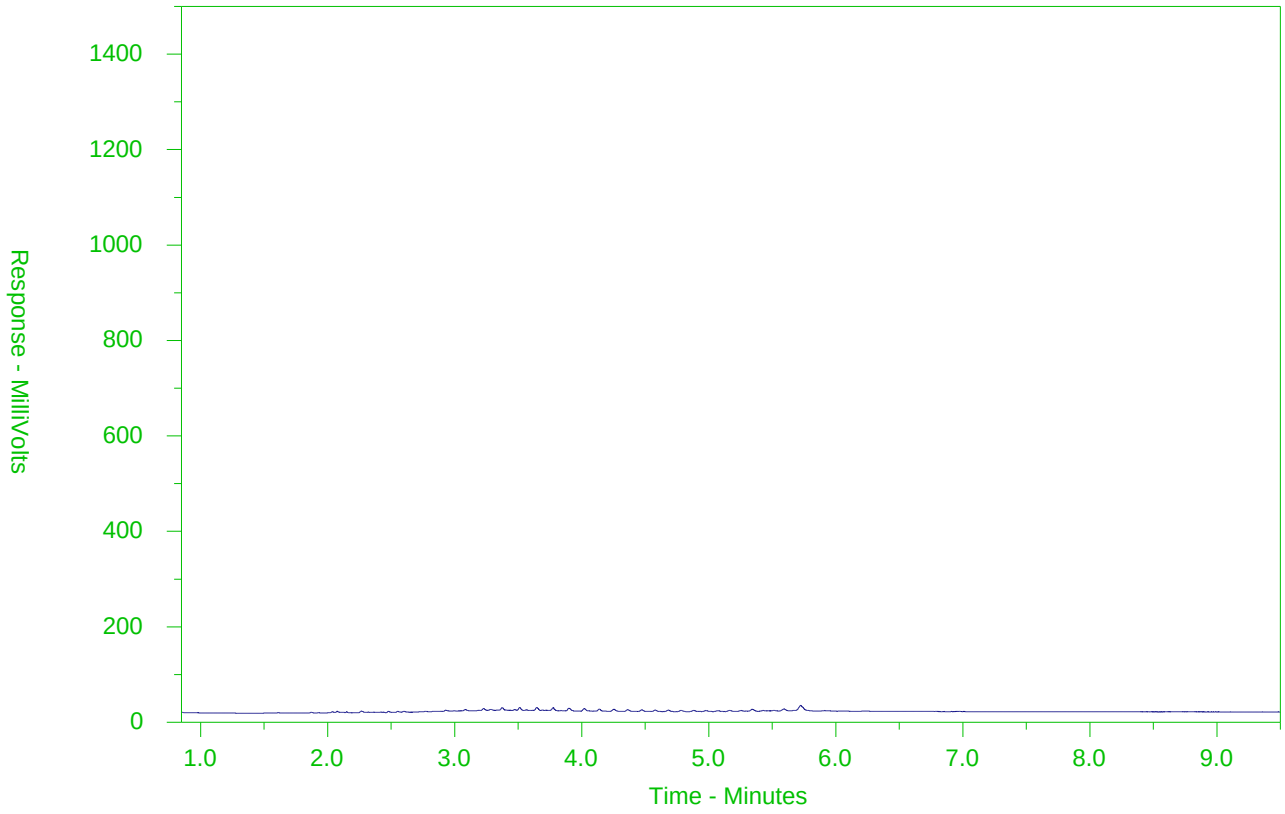
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

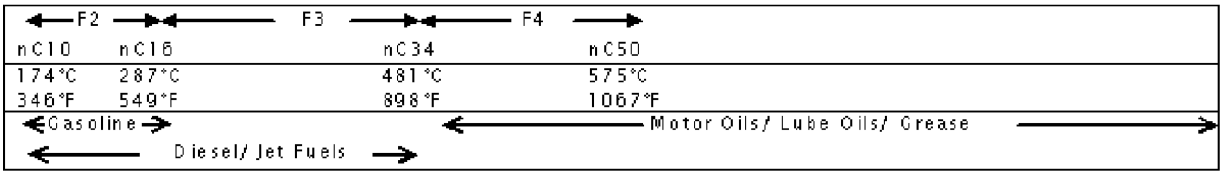
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-68
Client Sample ID: BH22-17 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

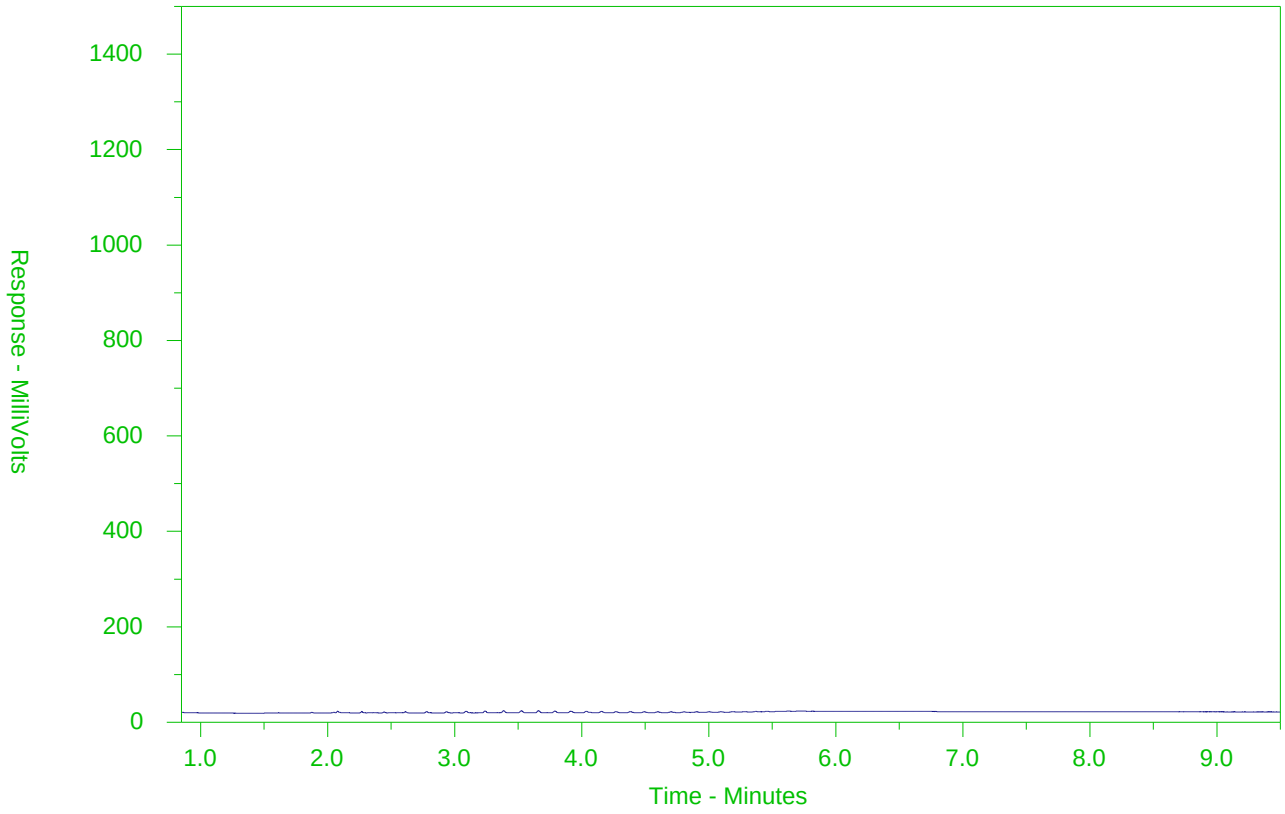
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

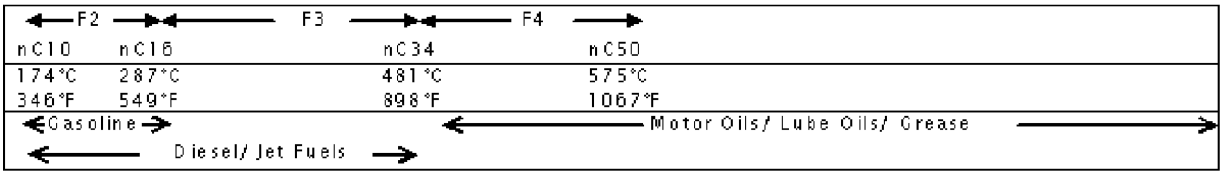
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-69
Client Sample ID: BH22-17 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

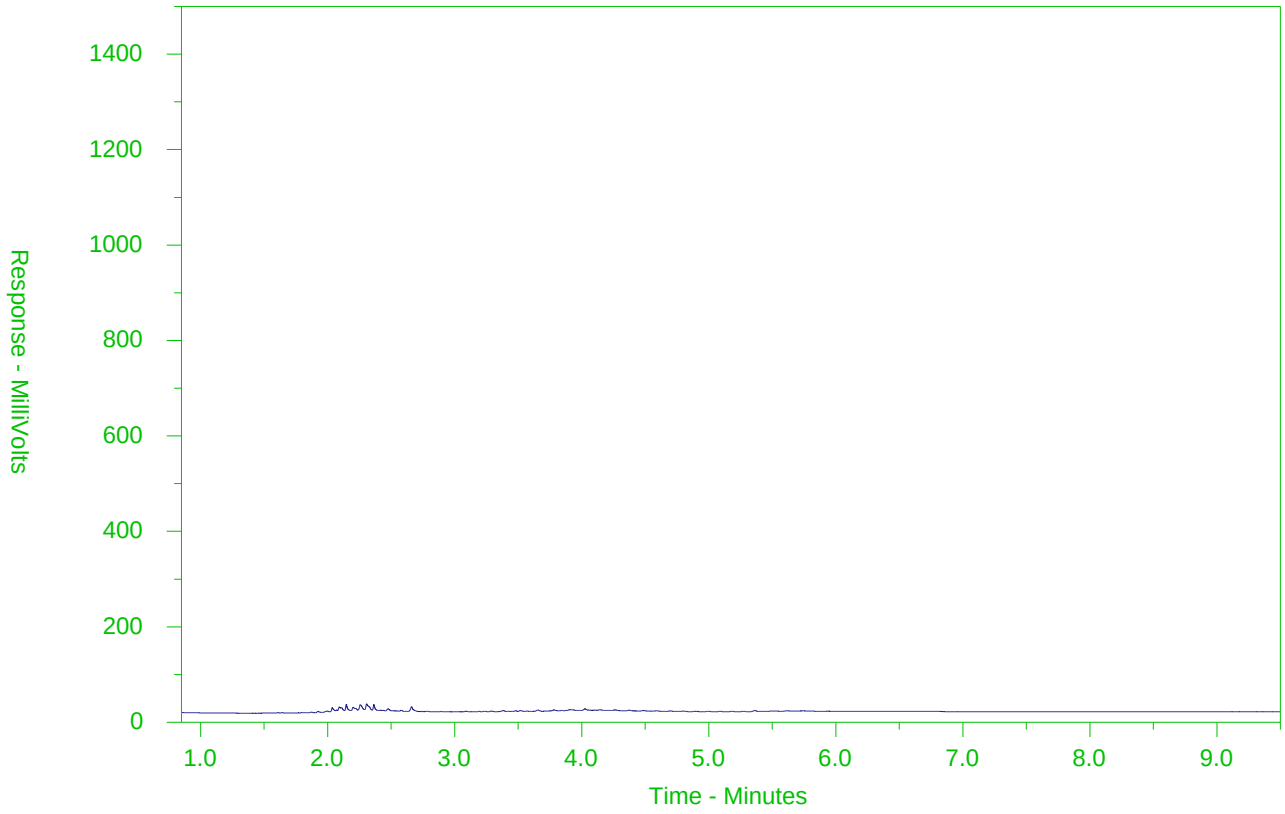
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

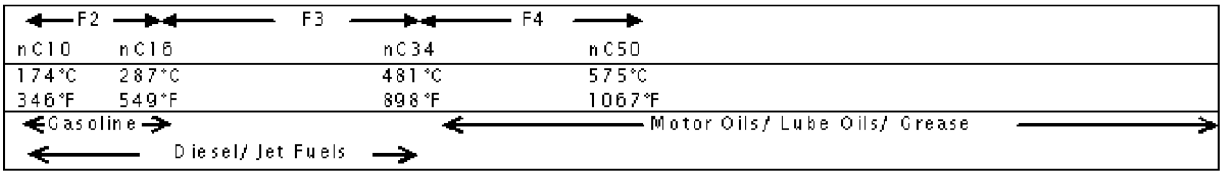
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-70
Client Sample ID: MW22-04 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

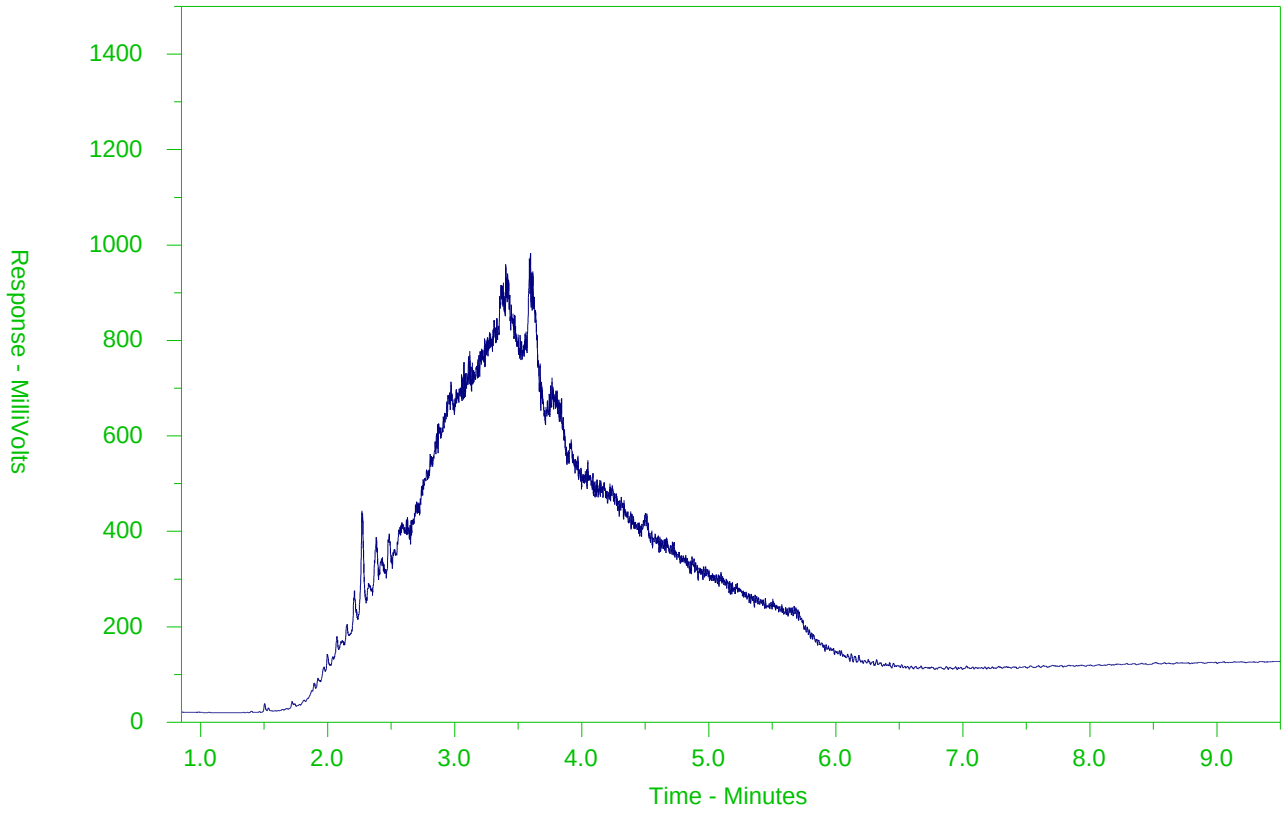
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

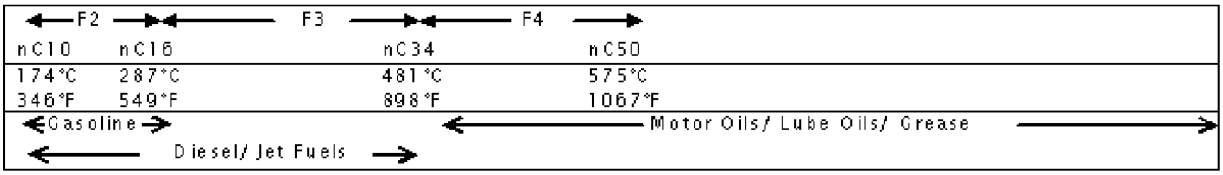
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-71
Client Sample ID: MW22-04 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

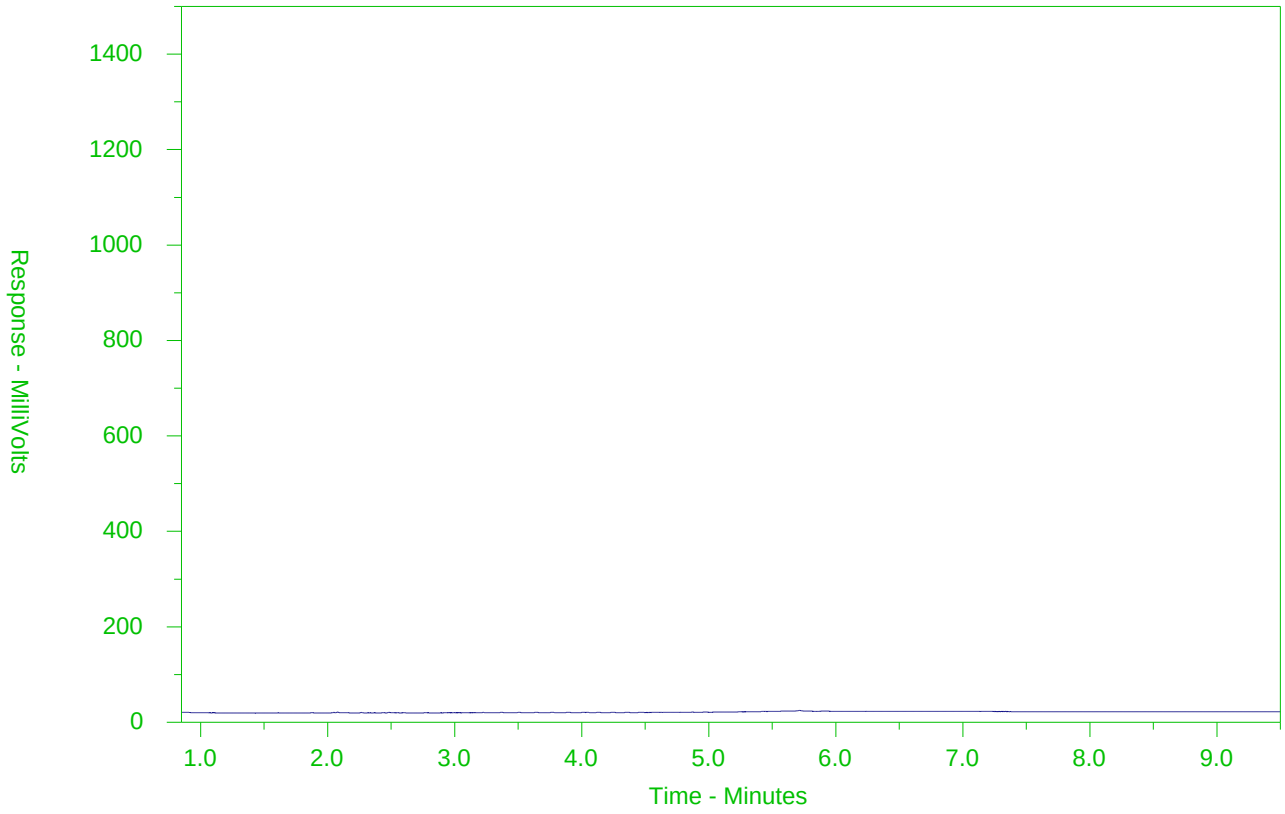
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

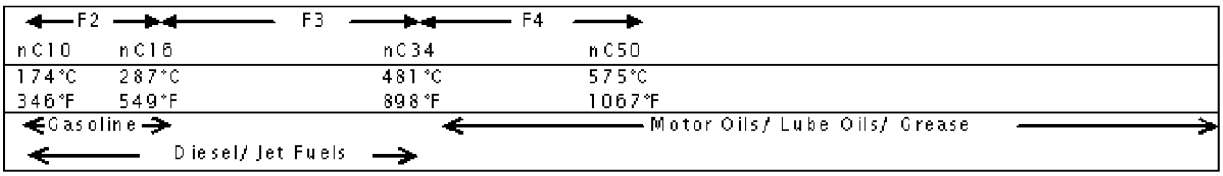
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-72
Client Sample ID: MW22-04 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

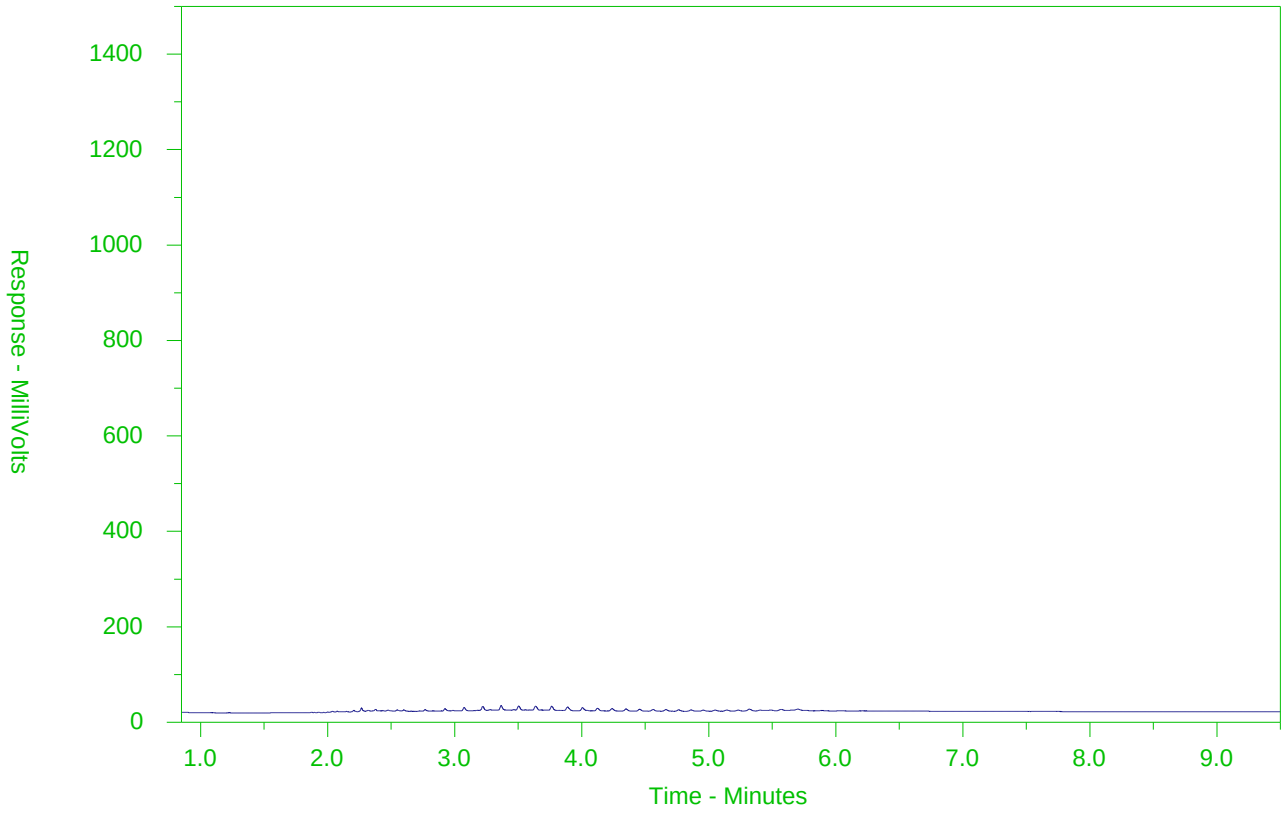
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

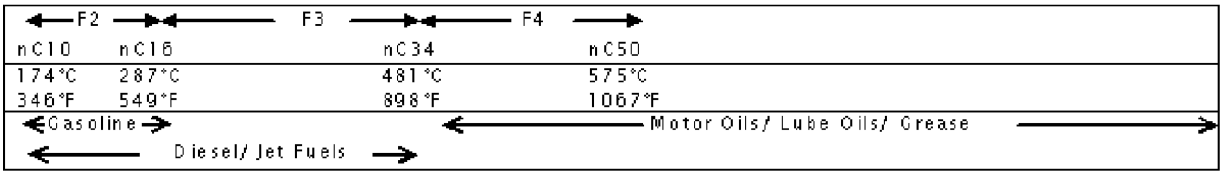
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-73
Client Sample ID: MW22-05 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

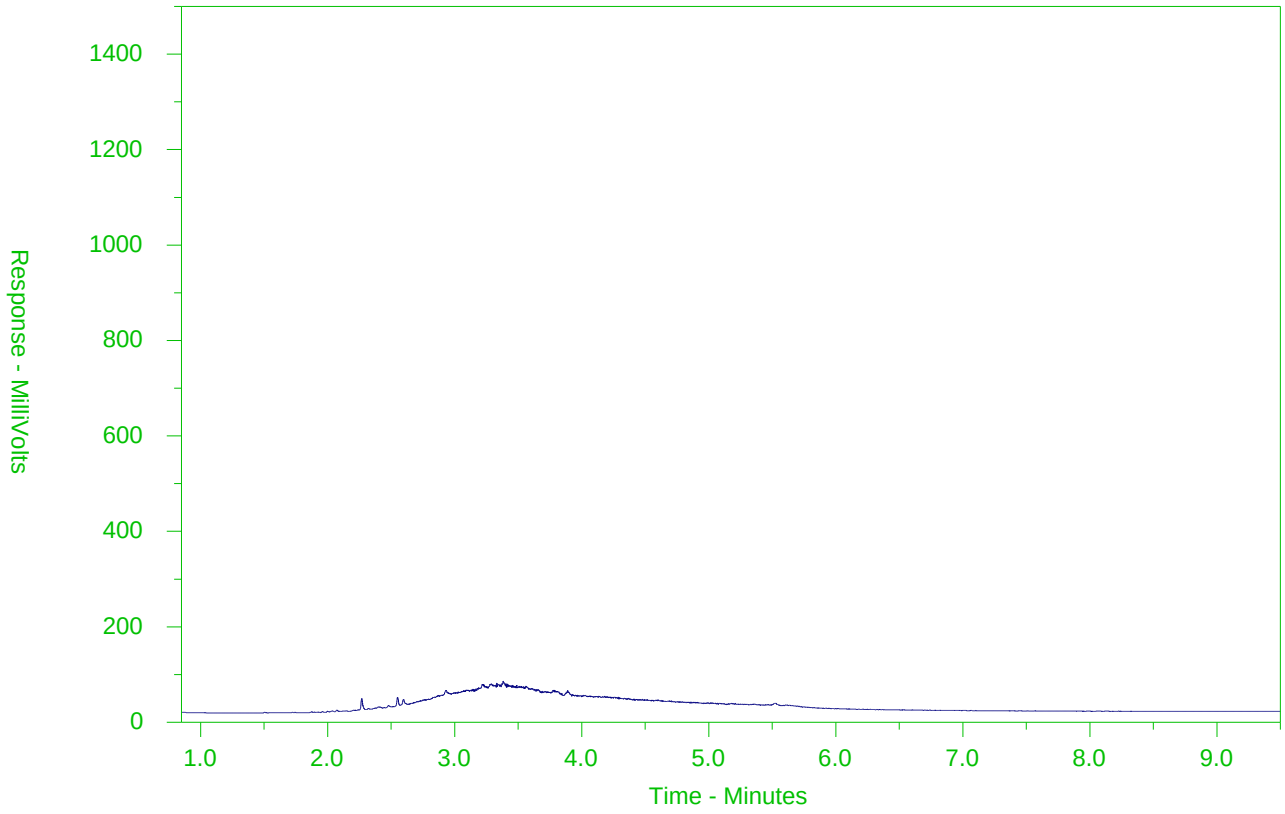
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

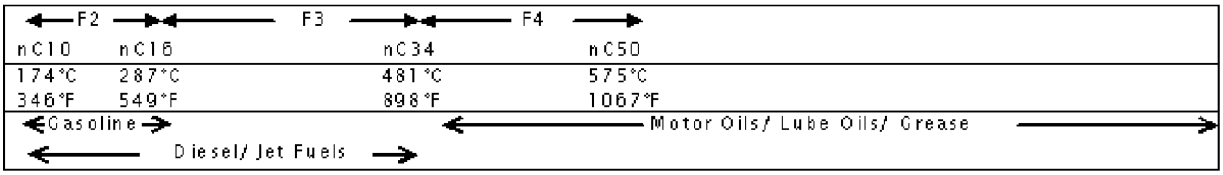
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-74
Client Sample ID: MW22-05 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

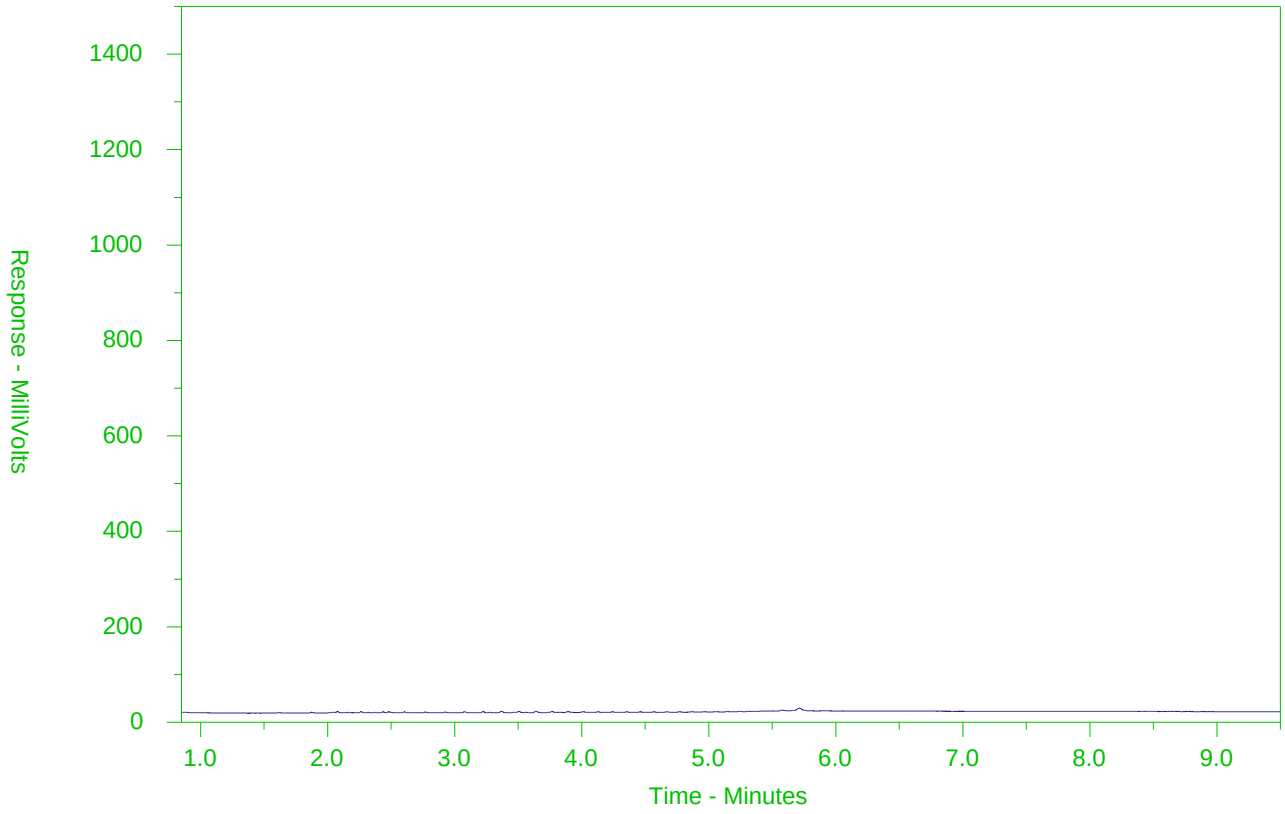
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

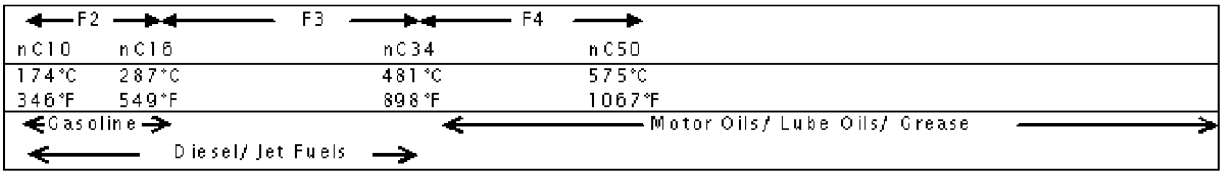
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-75
Client Sample ID: MW22-05 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

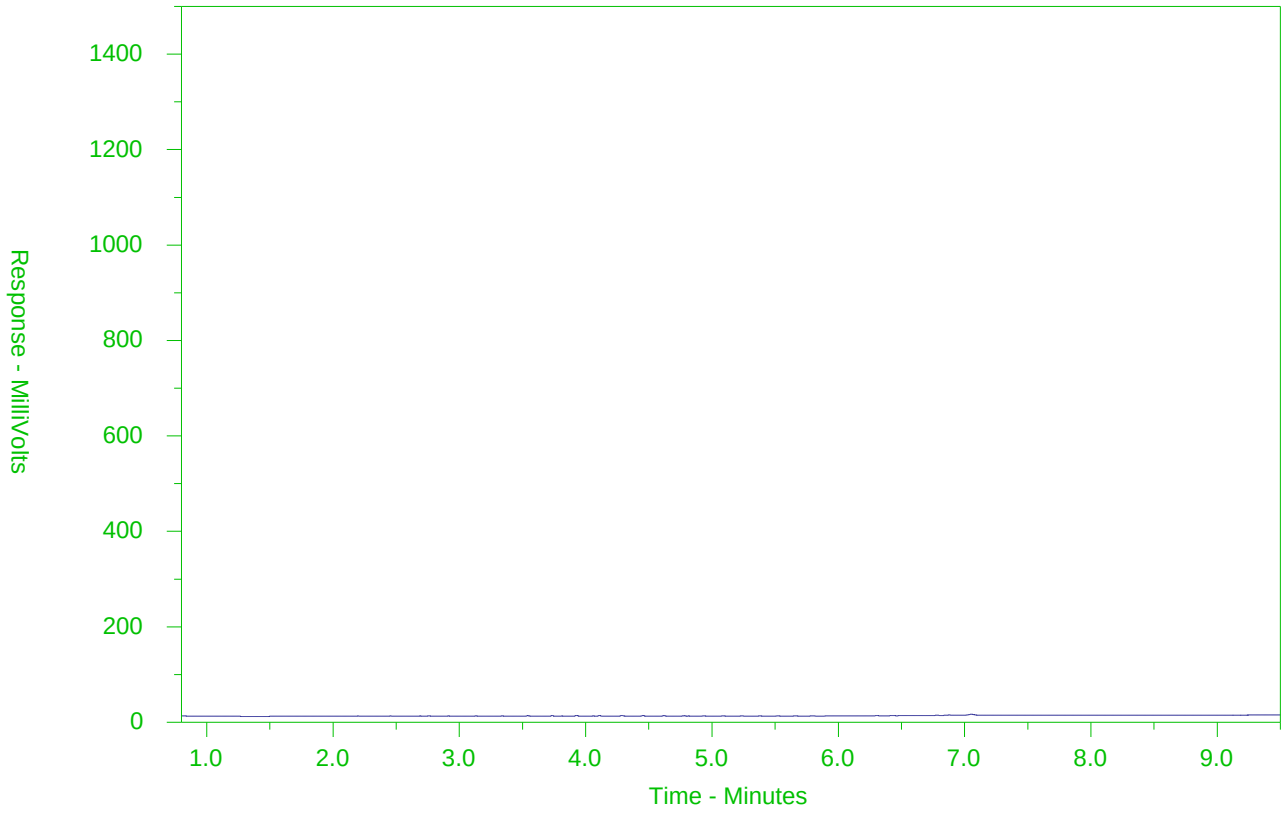
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

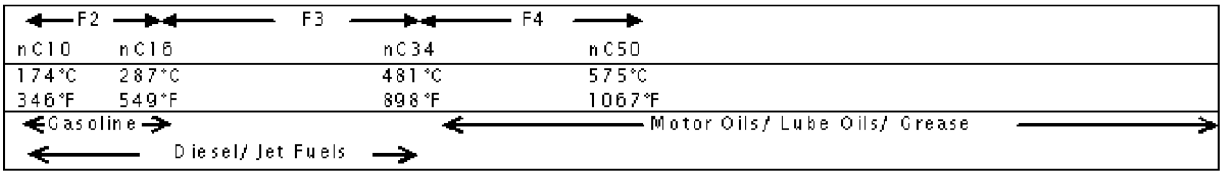
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-77
Client Sample ID: BH22-24 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

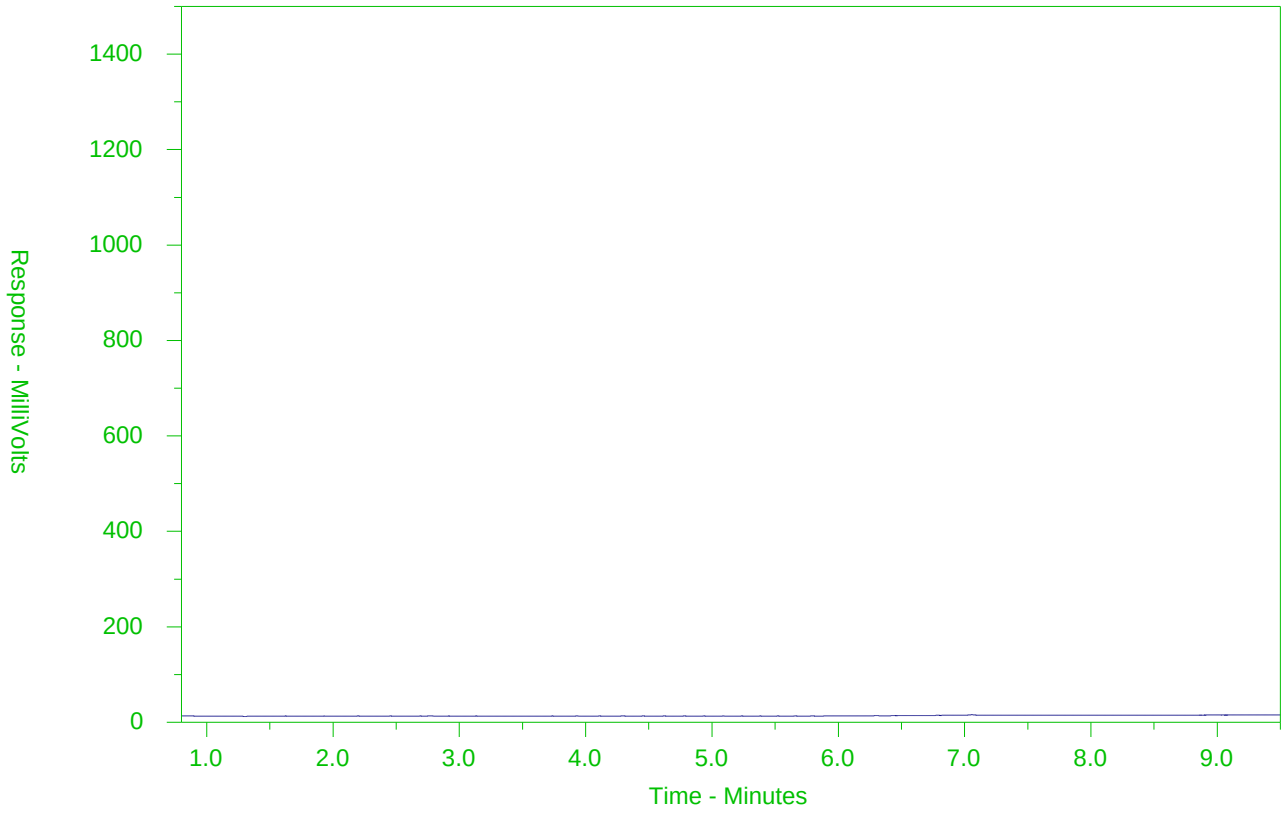
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

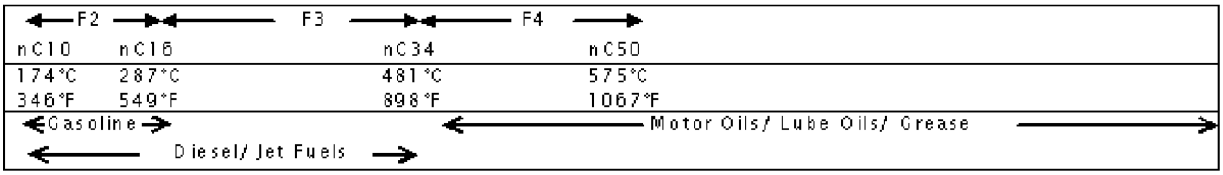
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-78
Client Sample ID: BH22-24 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

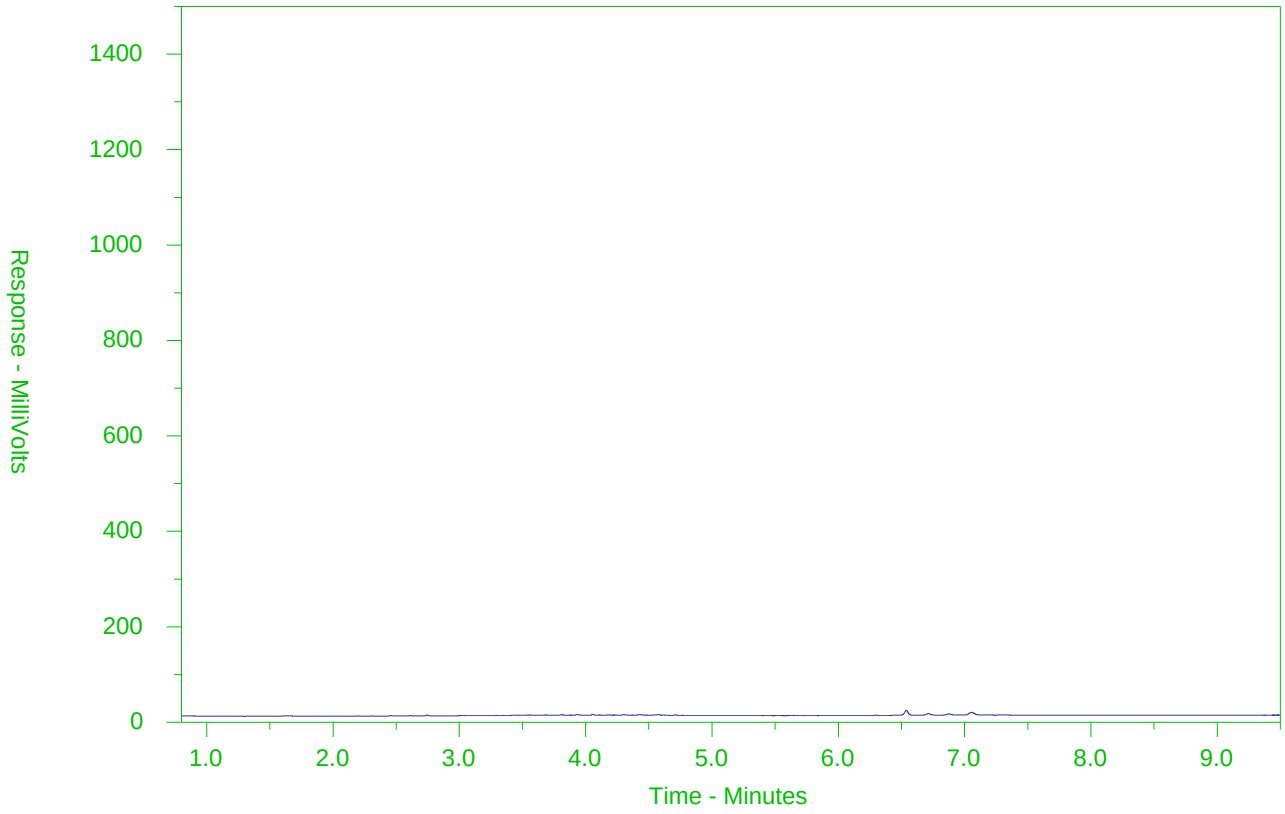
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

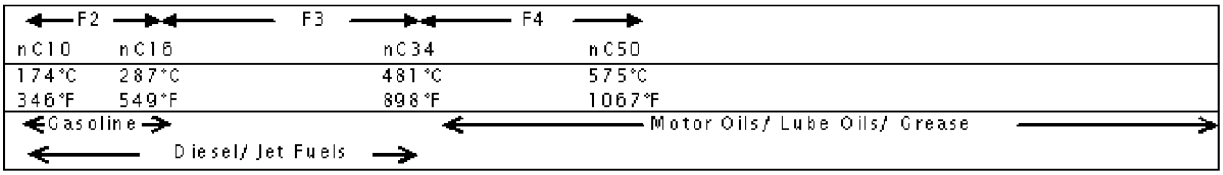
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-79
Client Sample ID: BH22-23 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

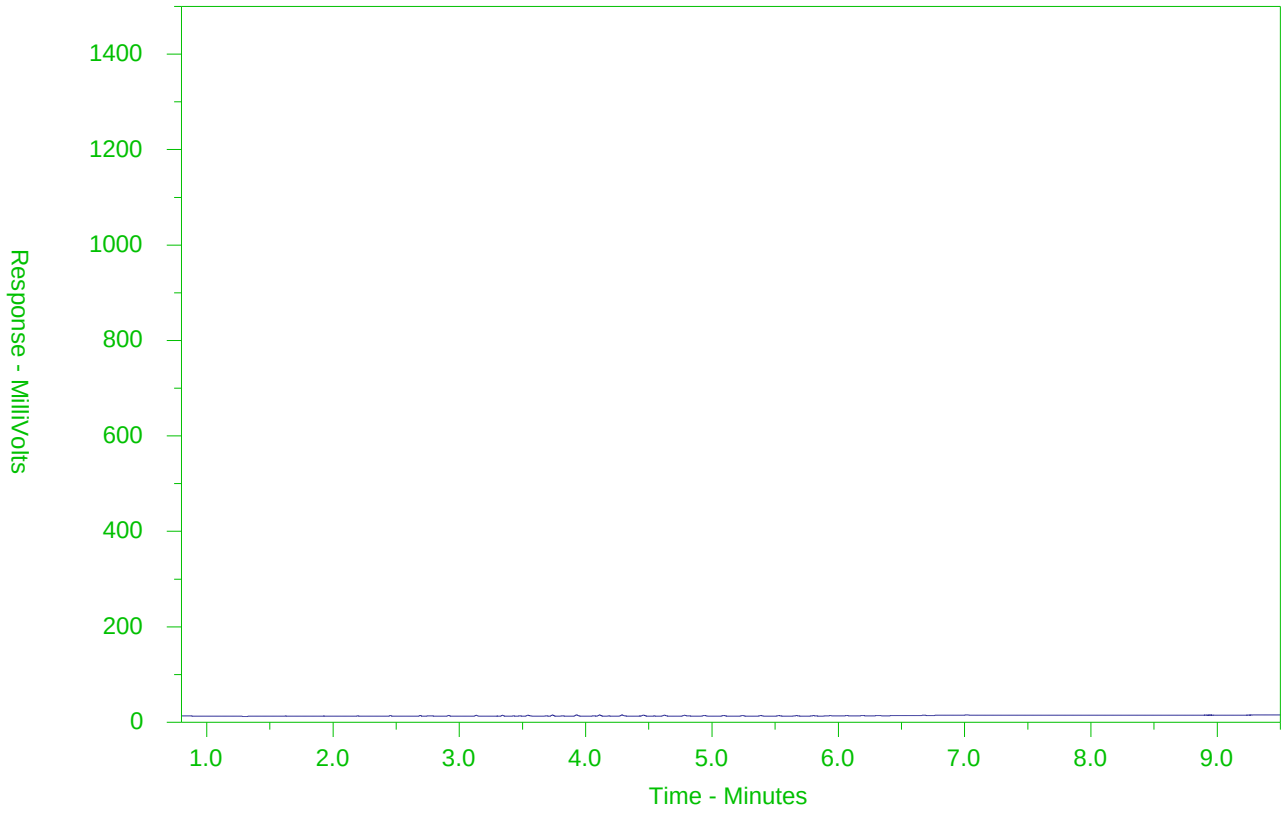
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

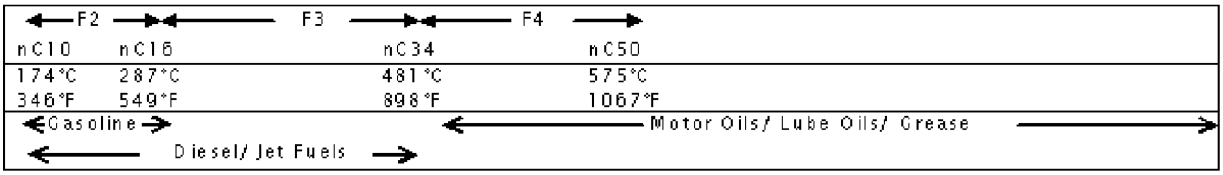
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-80
Client Sample ID: BH22-23 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

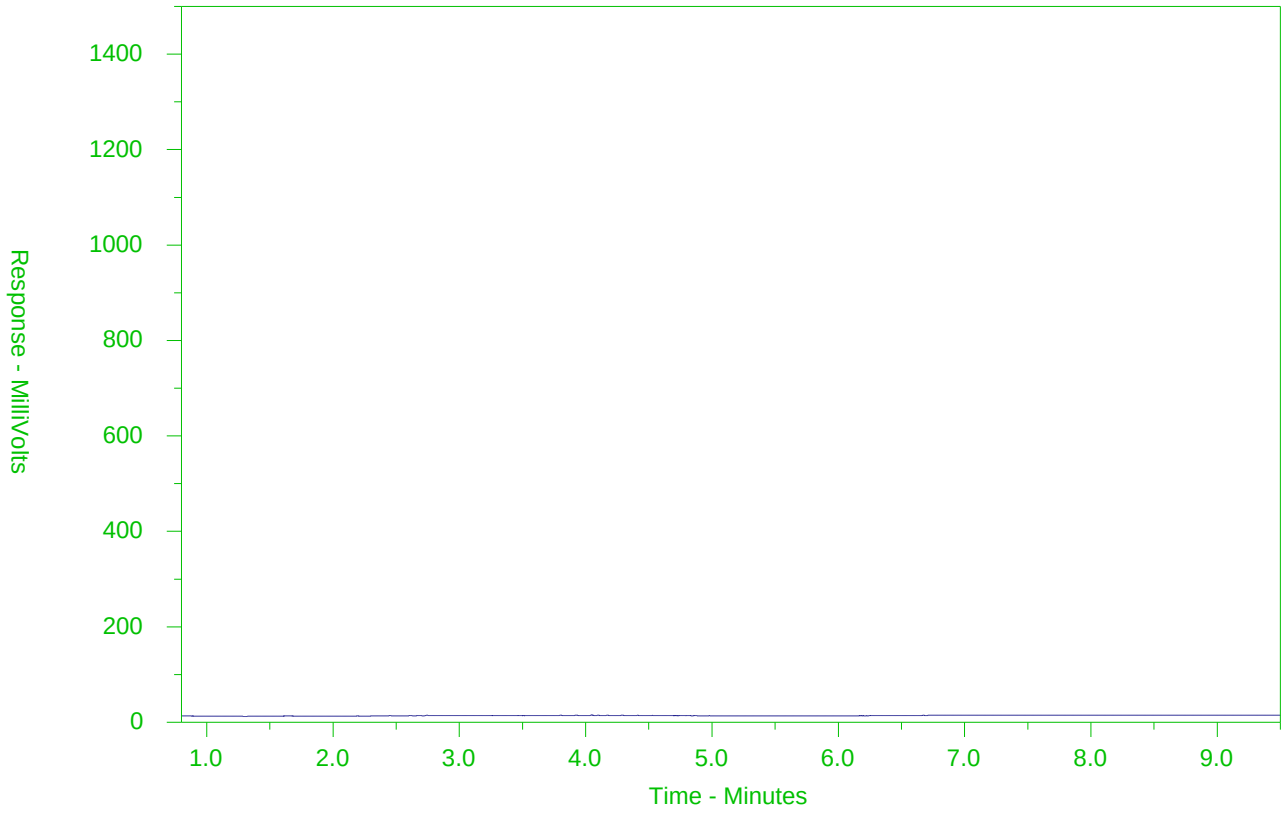
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

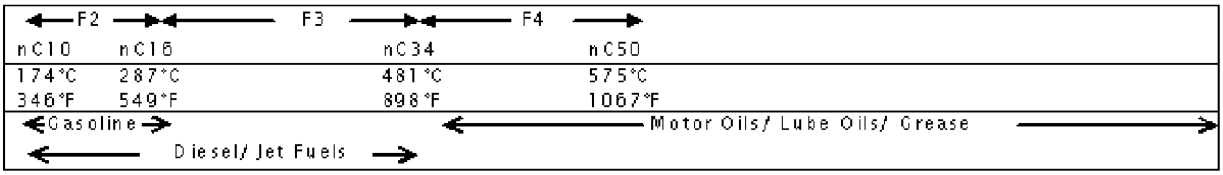
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-81
Client Sample ID: BH22-23 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

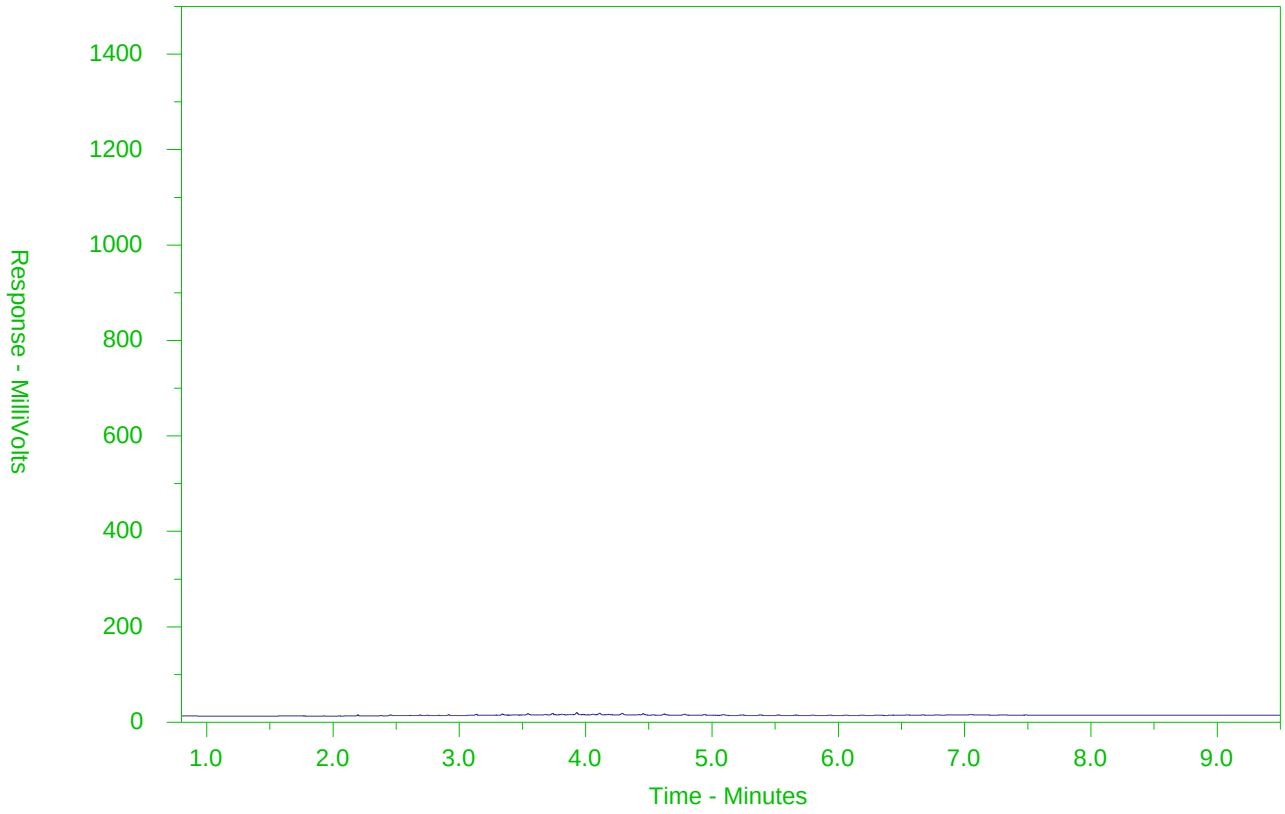
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

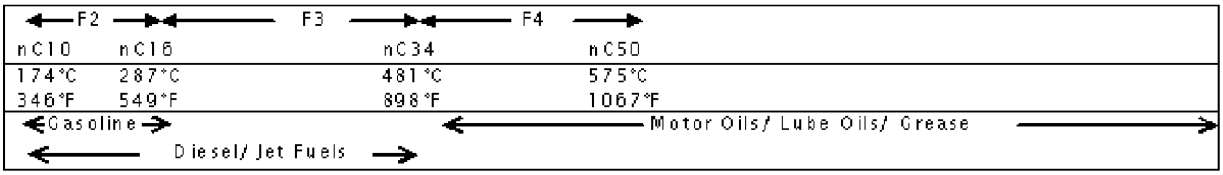
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-83
Client Sample ID: BH22-22 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

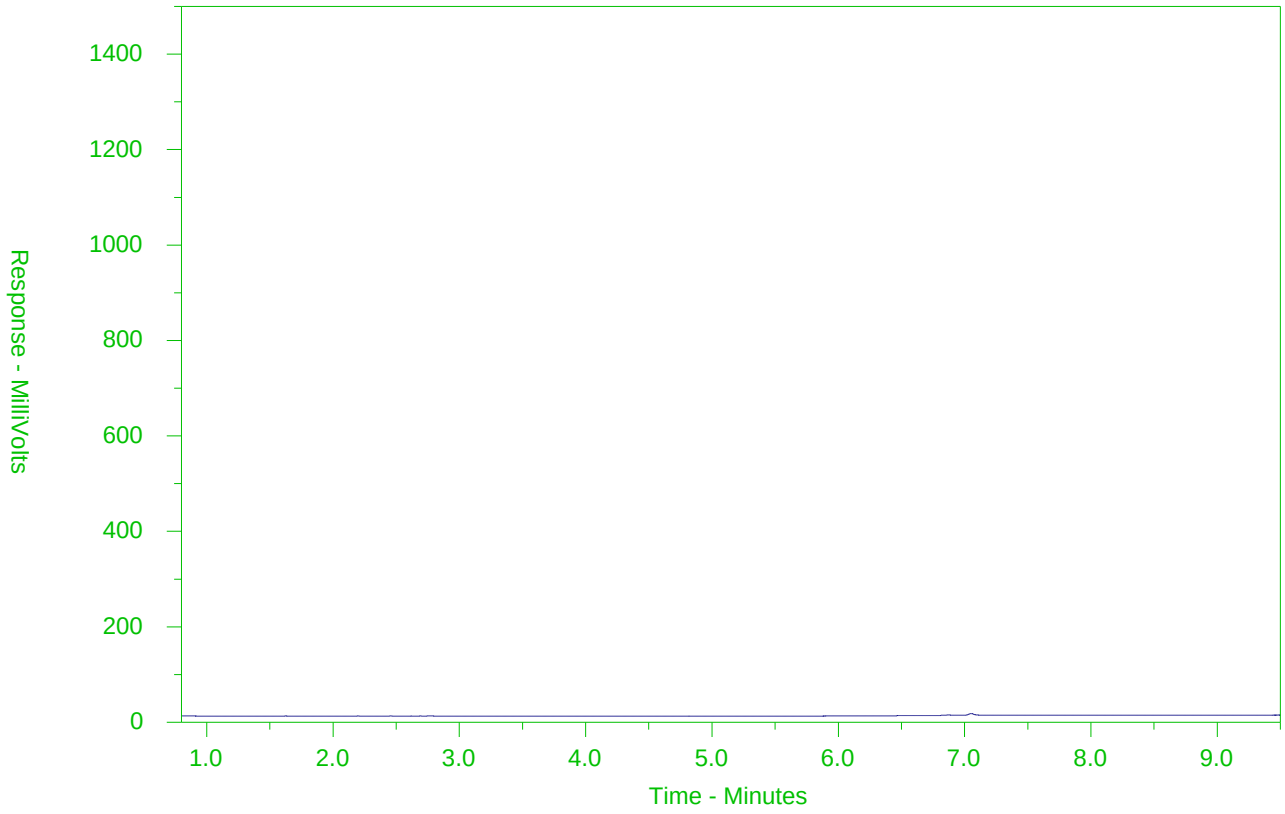
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

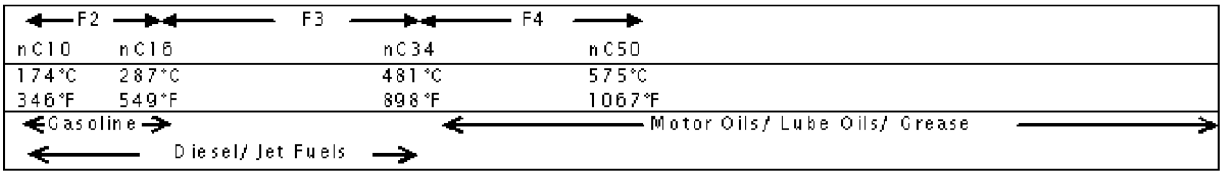
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-84
Client Sample ID: BH22-22 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

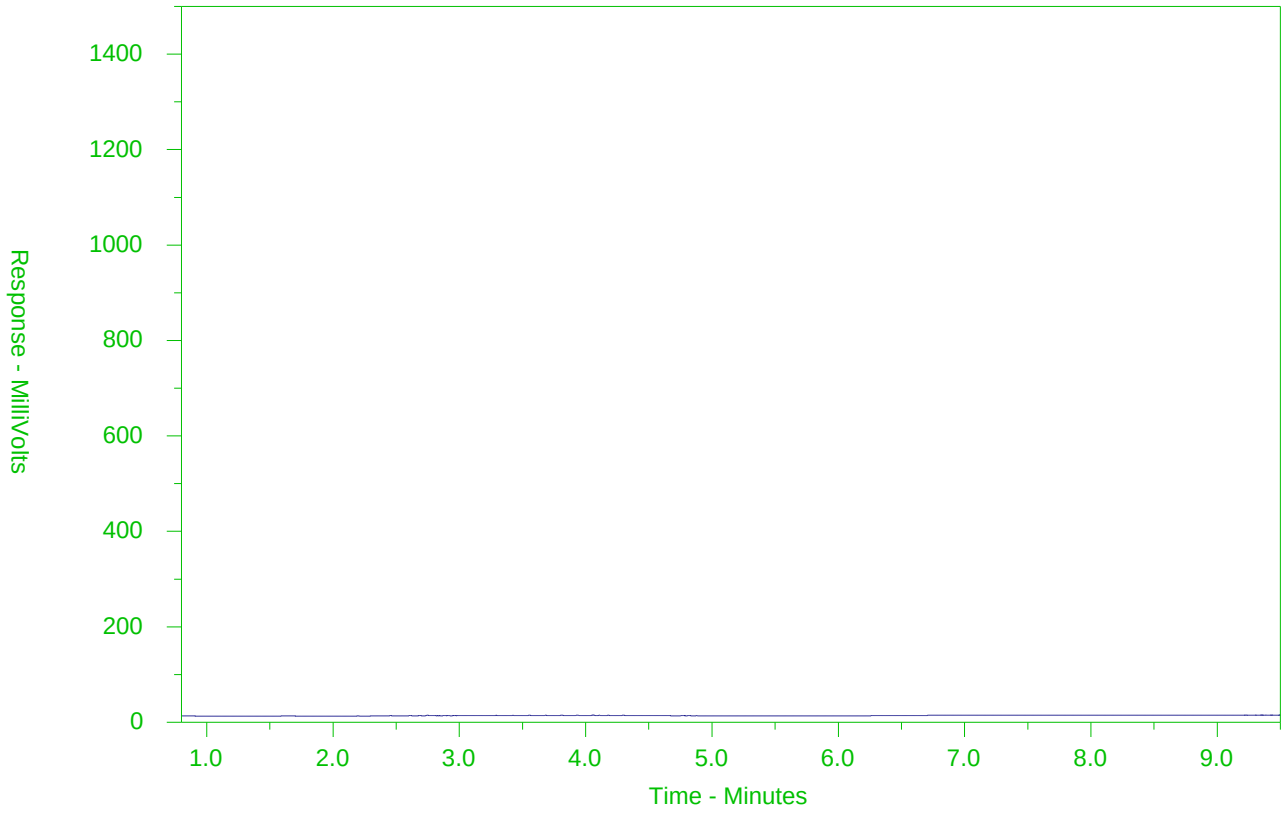
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

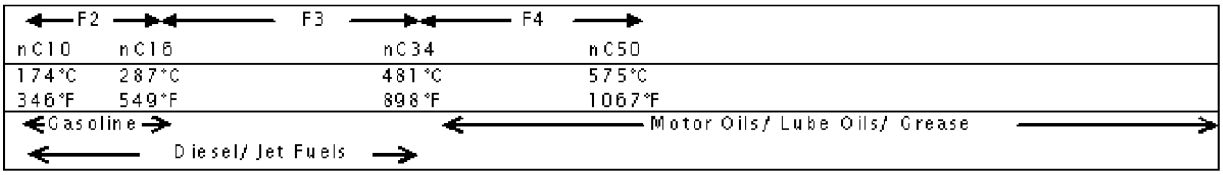
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-85
Client Sample ID: BH22-22 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

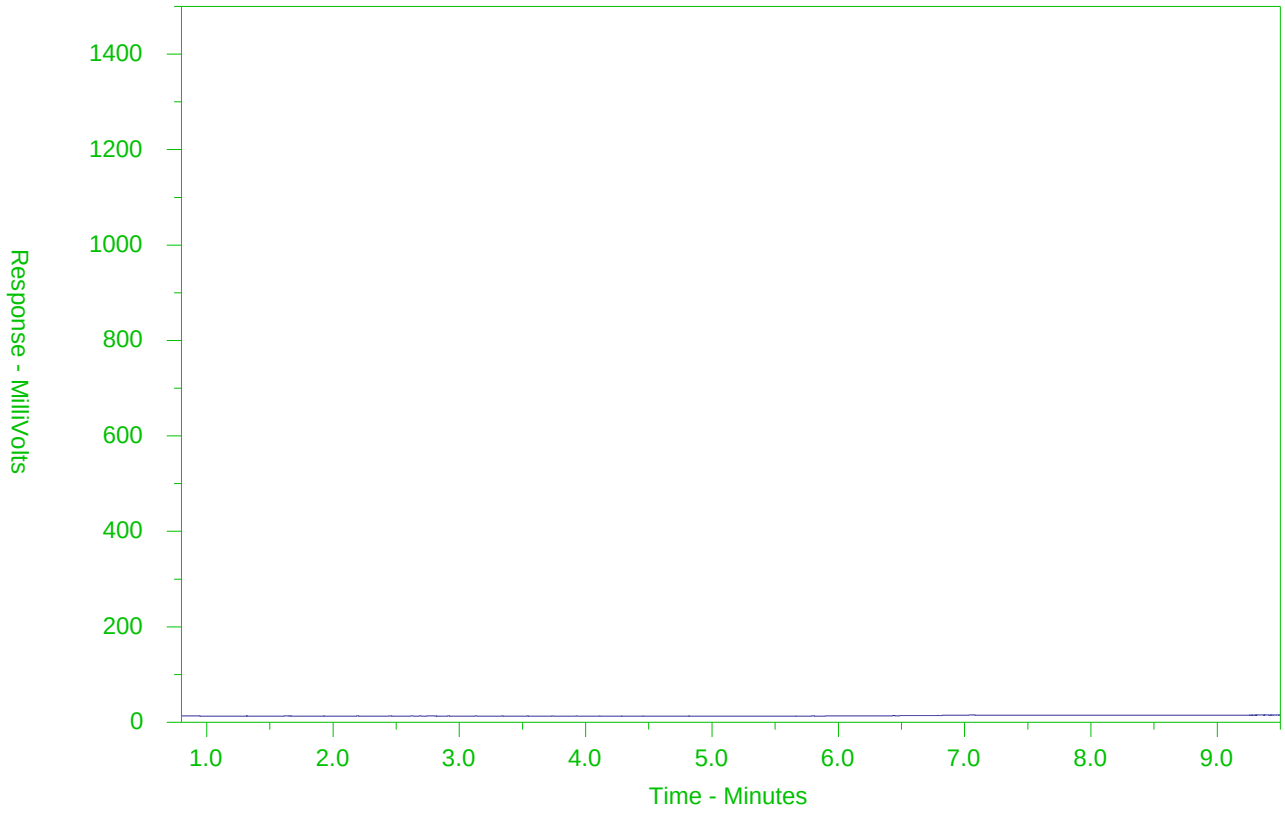
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

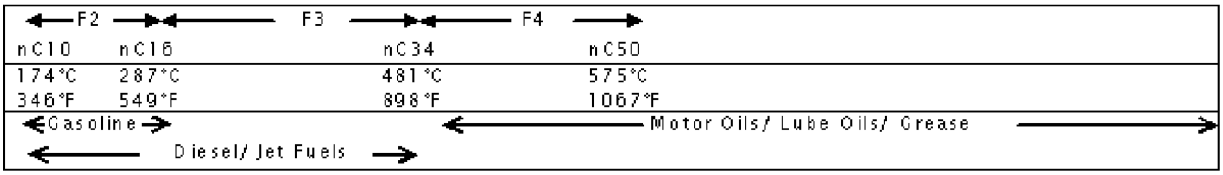
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-86
Client Sample ID: BH22-22 SS08





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

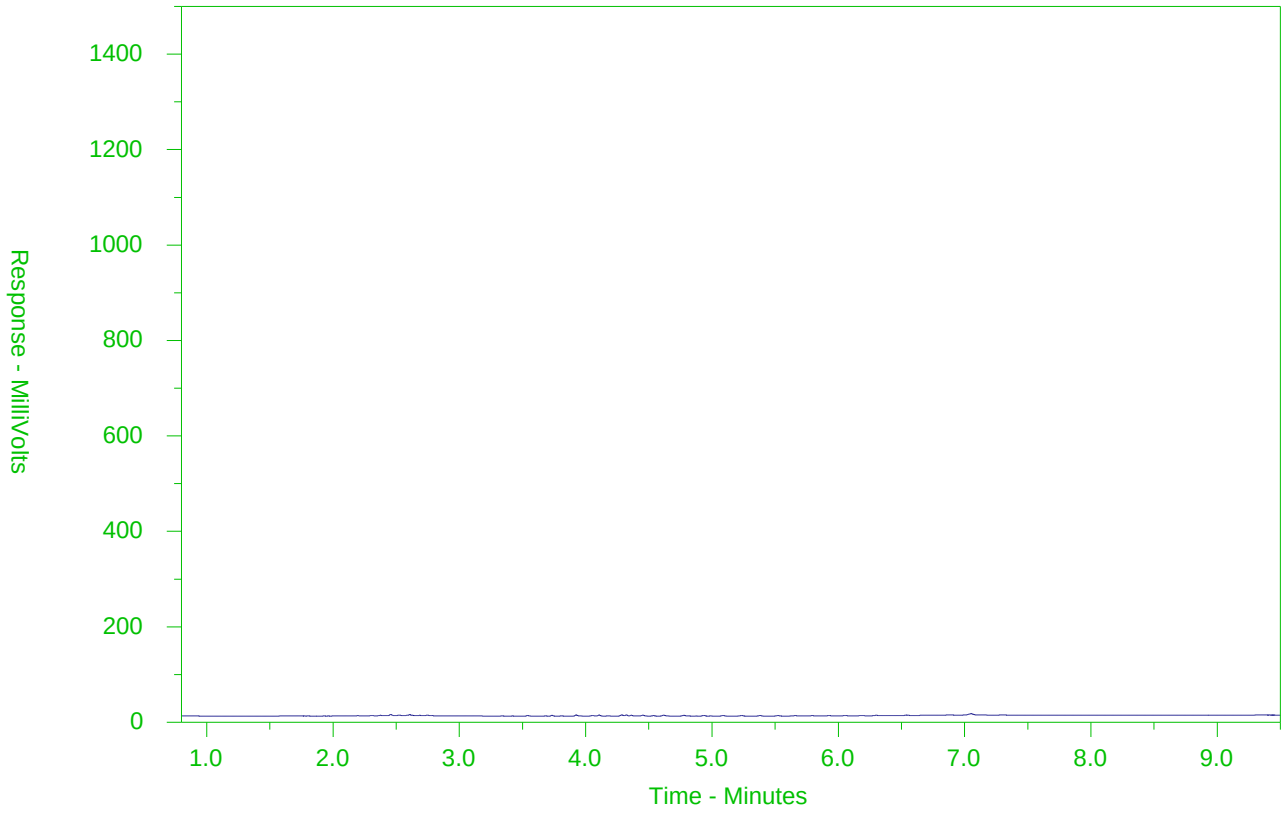
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

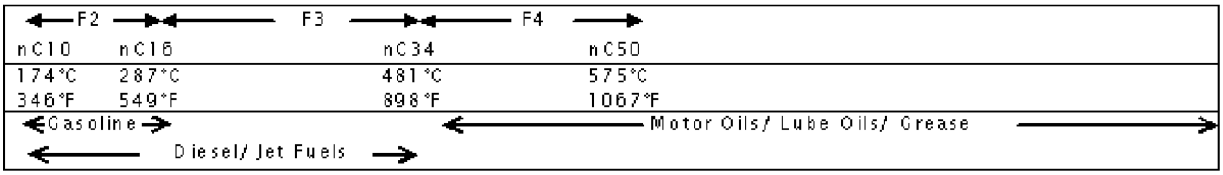
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-87
Client Sample ID: BH22-21 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

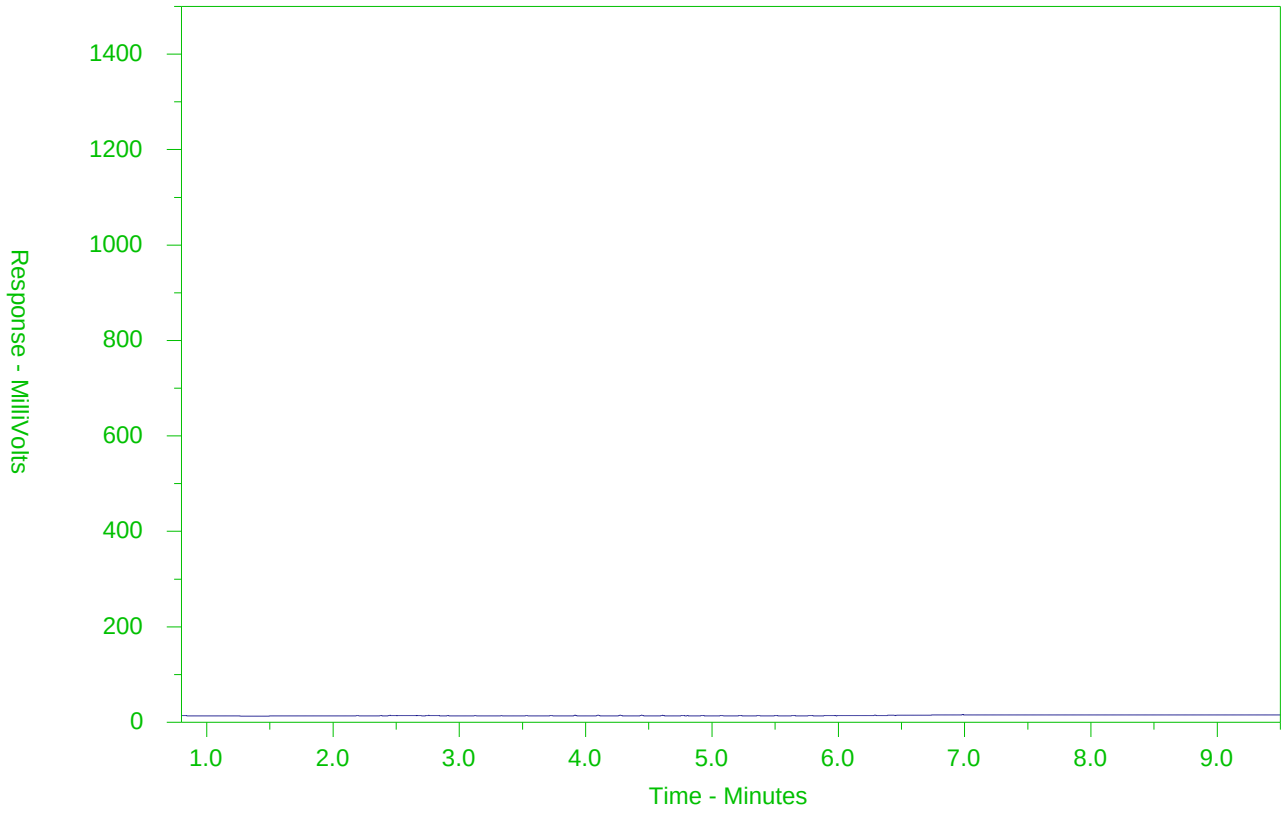
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

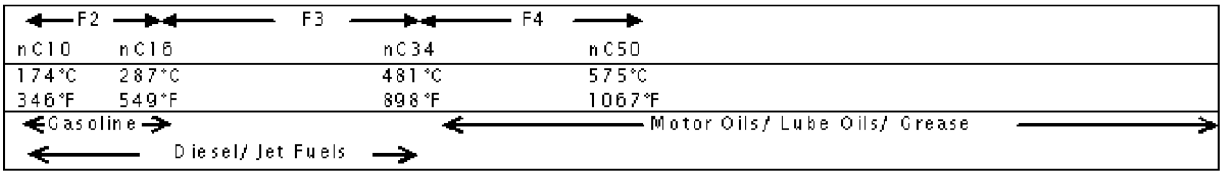
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-88
Client Sample ID: BH22-21 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

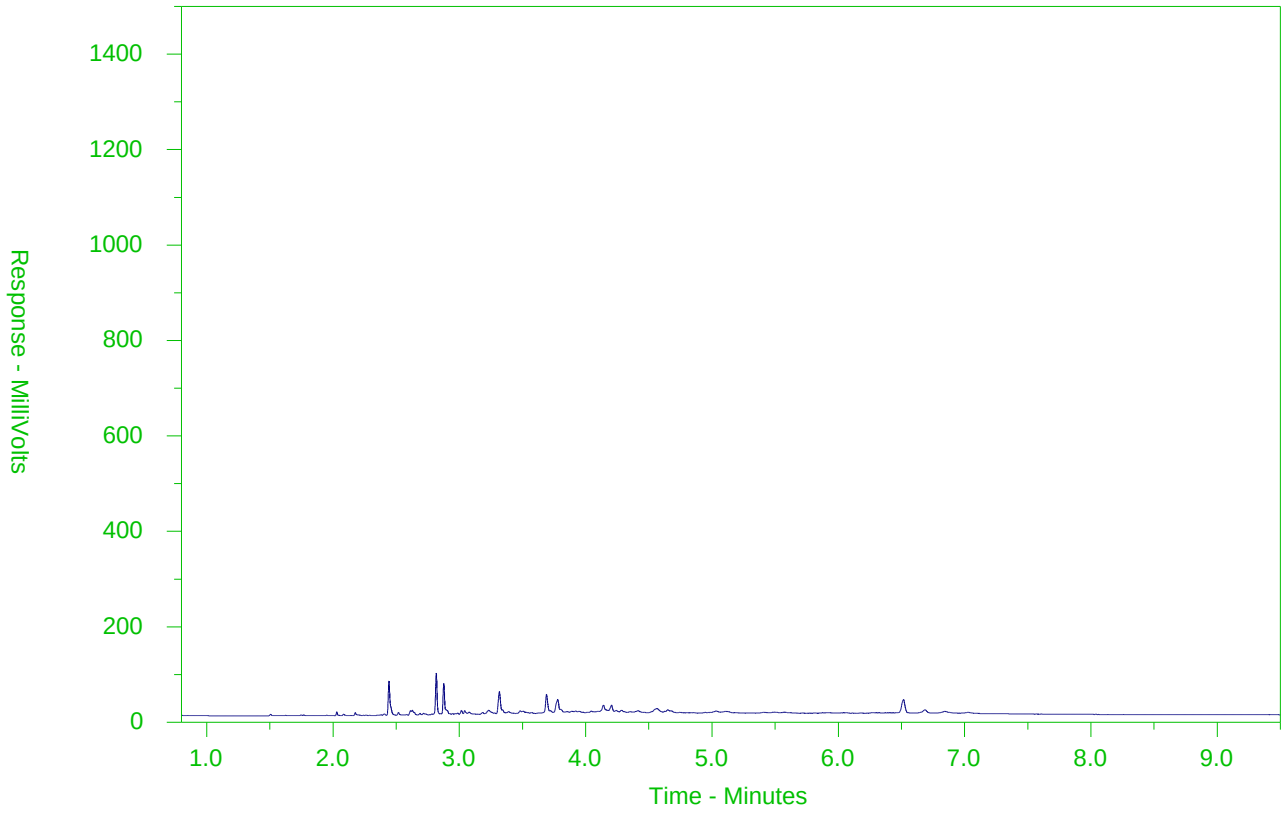
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

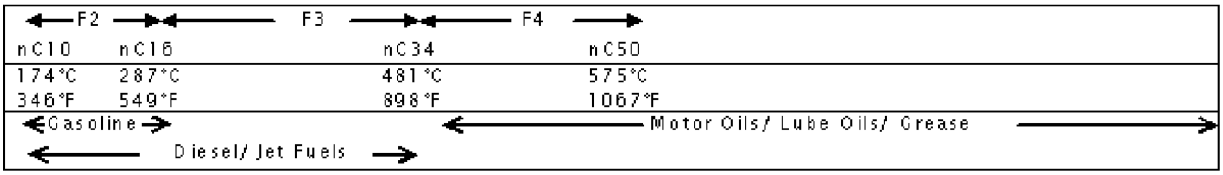
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-89
Client Sample ID: BH22-18 SS01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

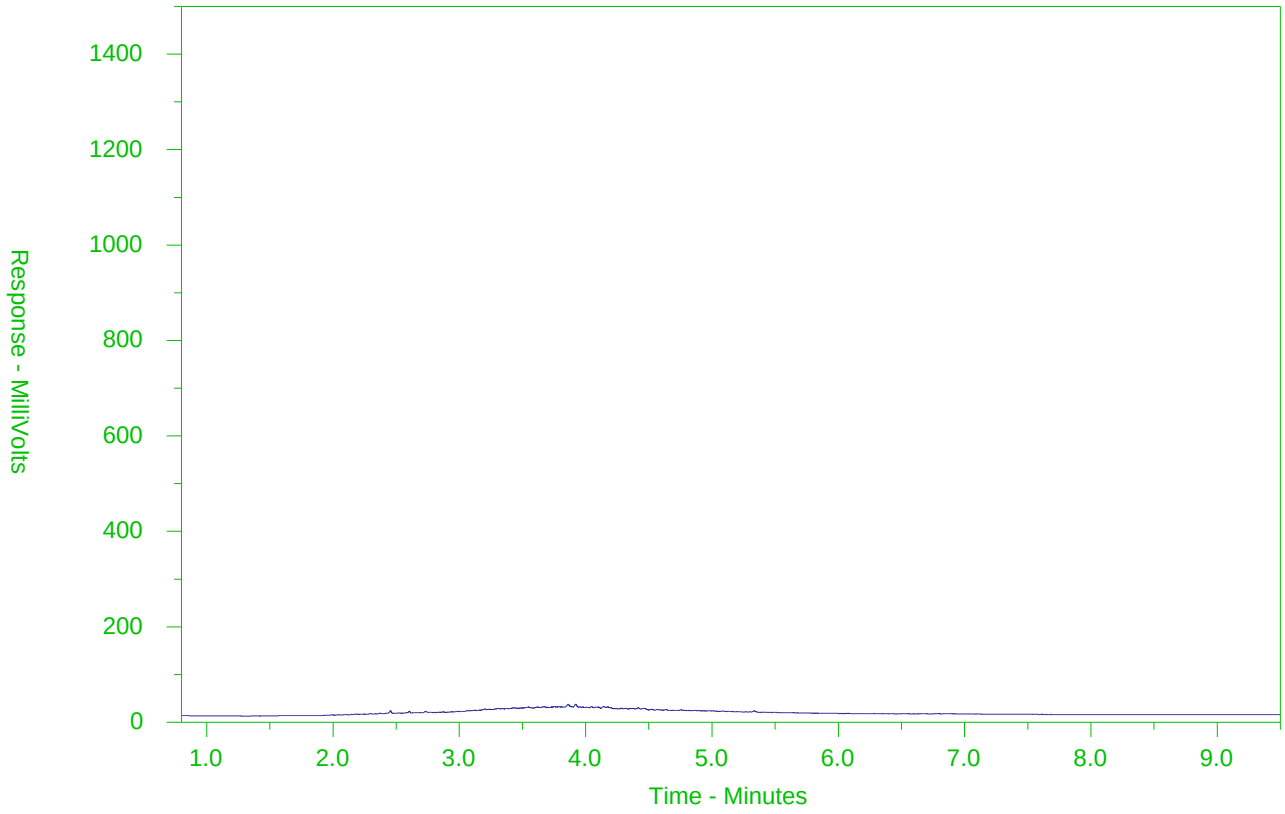
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

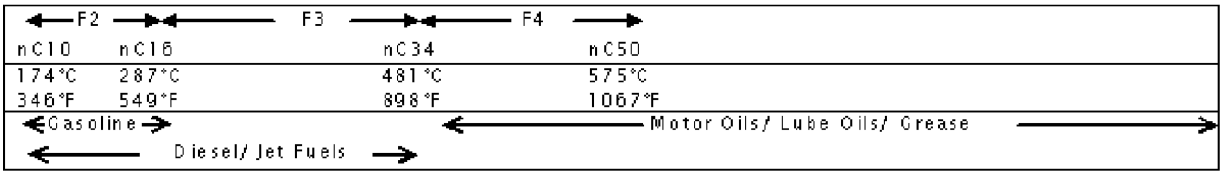
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-90
Client Sample ID: BH22-18 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

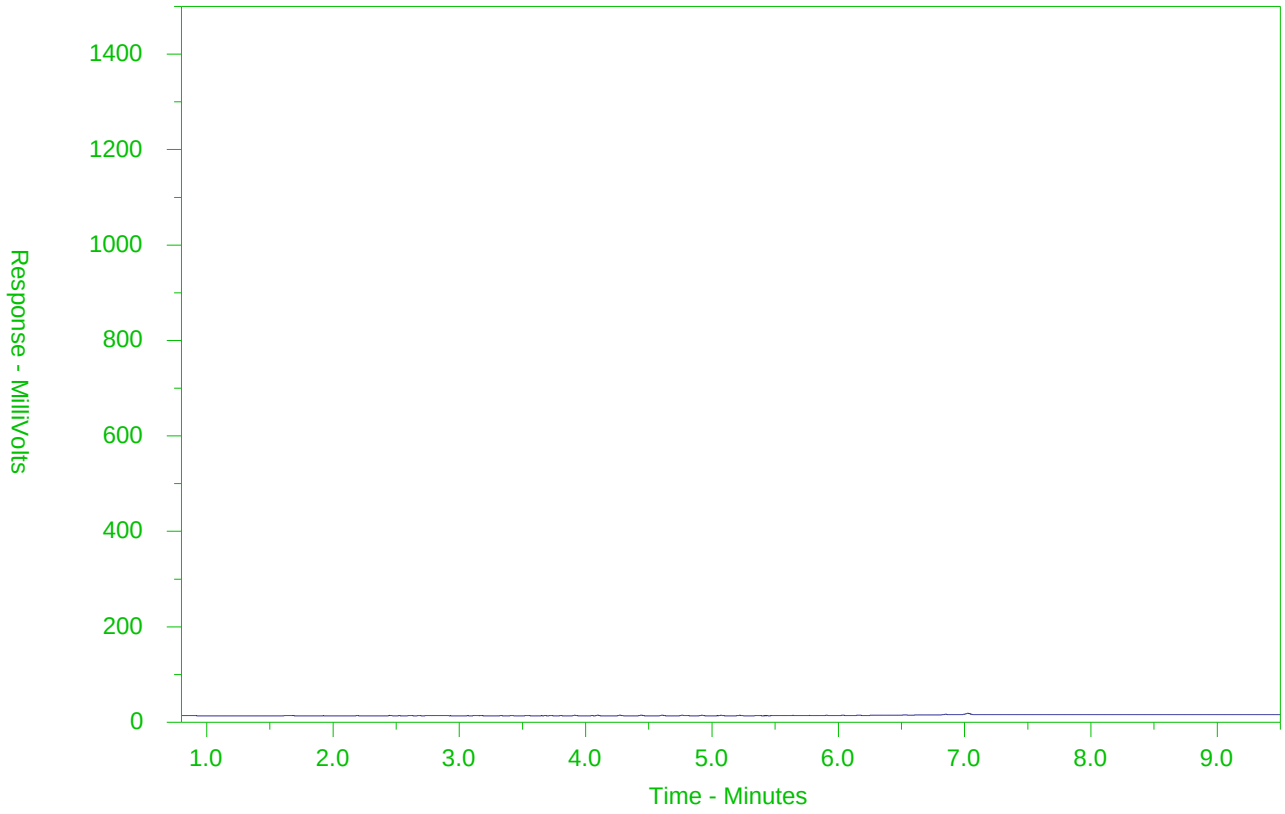
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

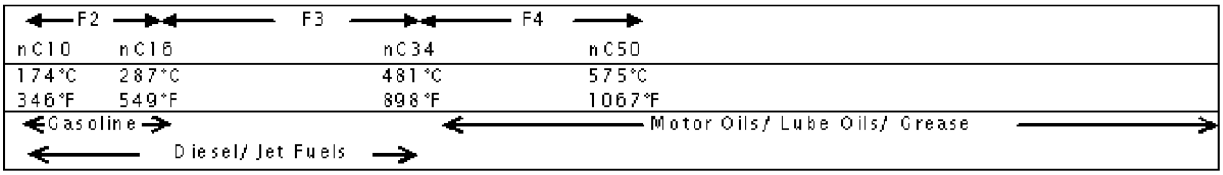
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-91
Client Sample ID: BH22-18 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

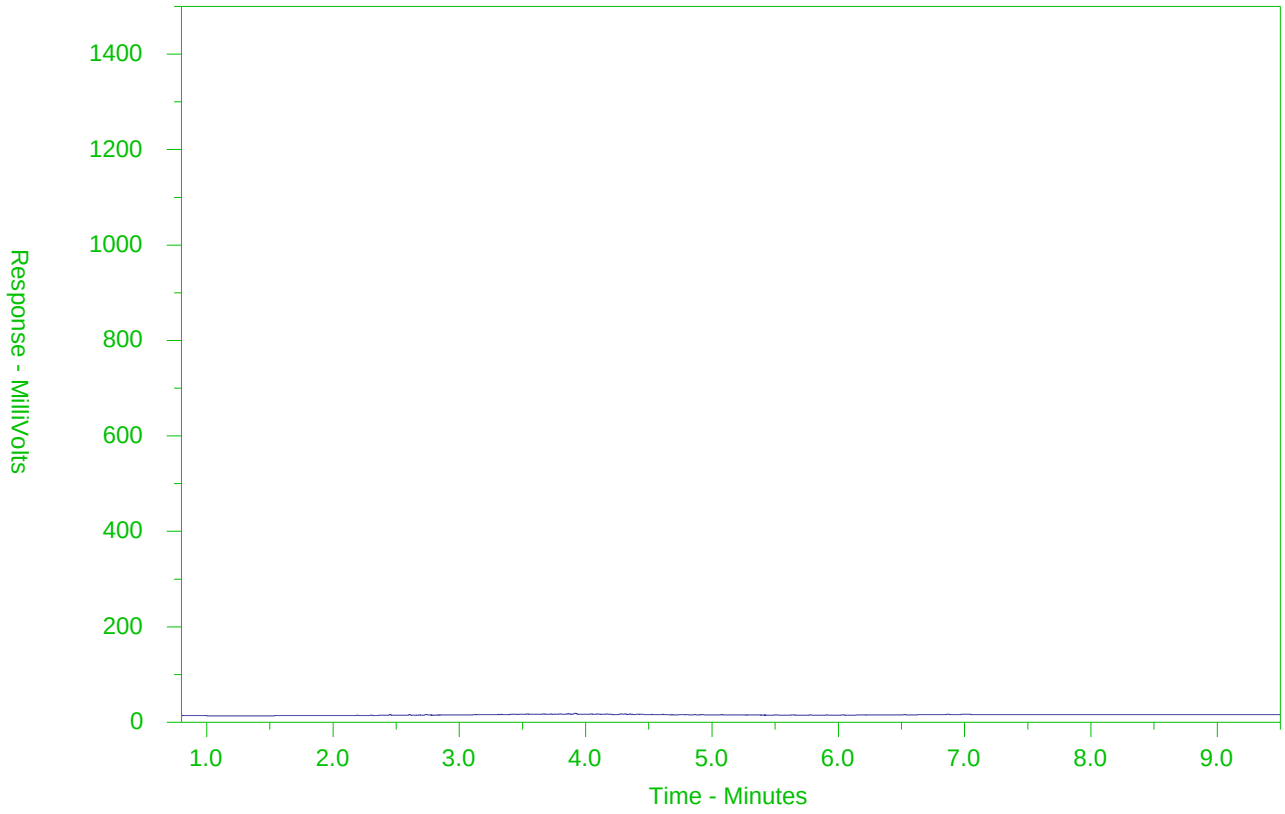
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

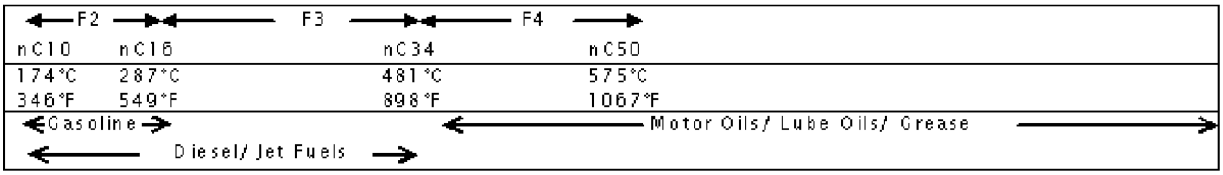
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-92
Client Sample ID: BH22-18 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

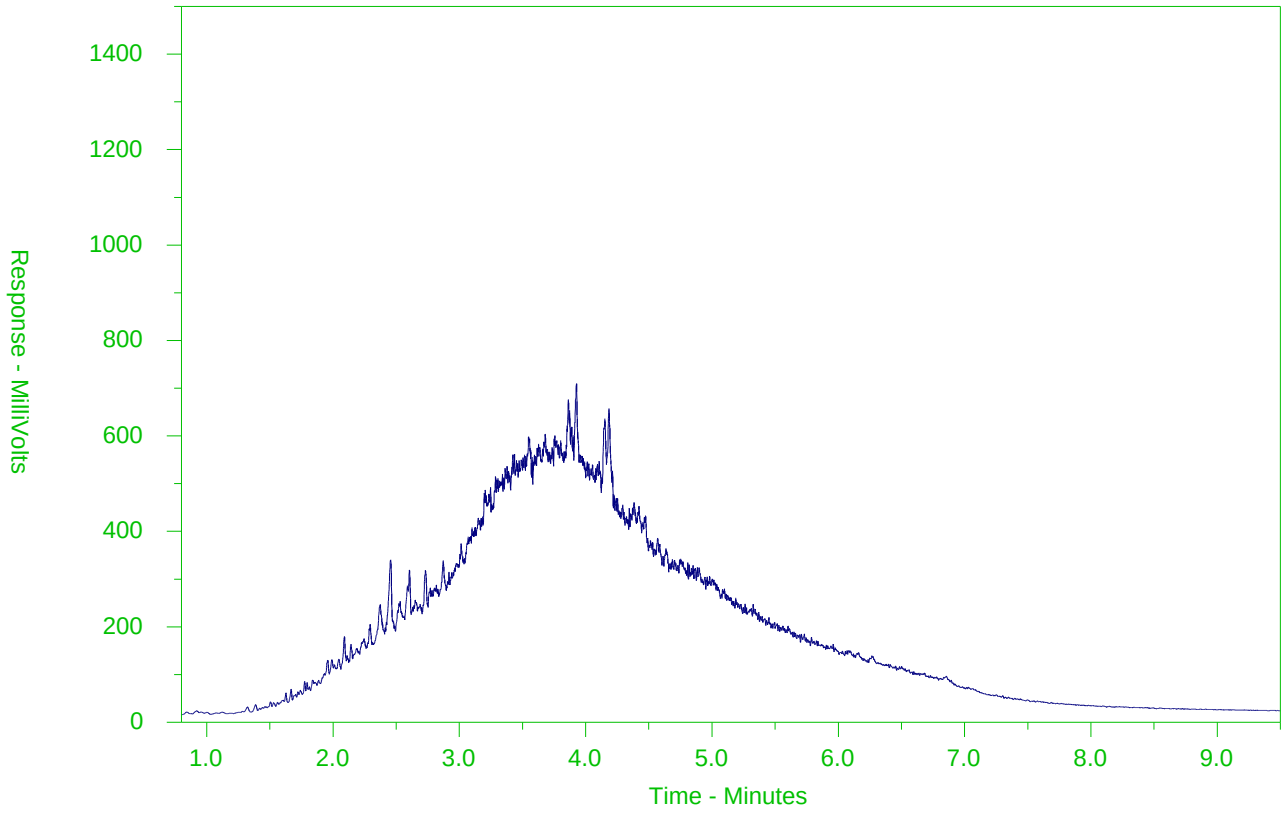
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

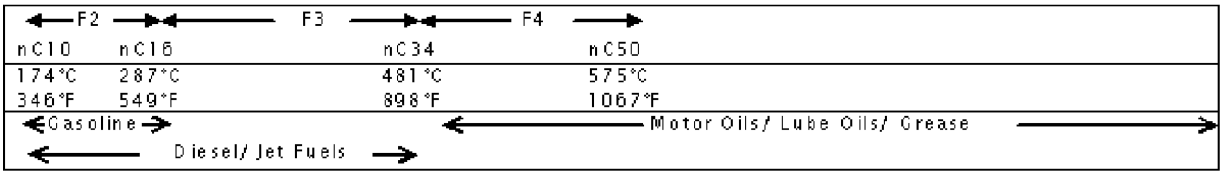
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-93
Client Sample ID: BH22-25 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

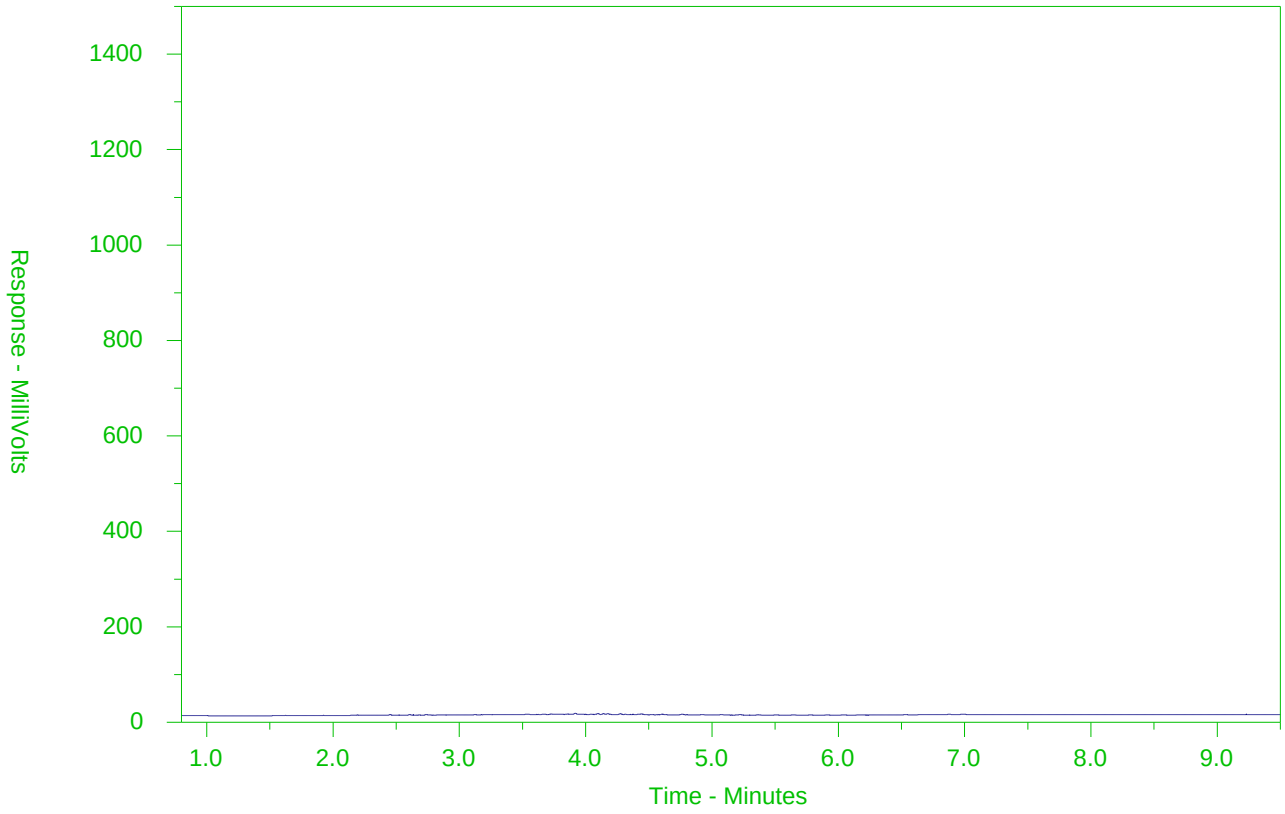
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

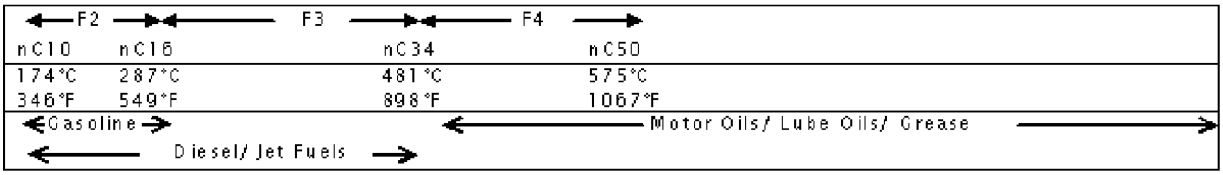
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-95
Client Sample ID: BH22-15 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

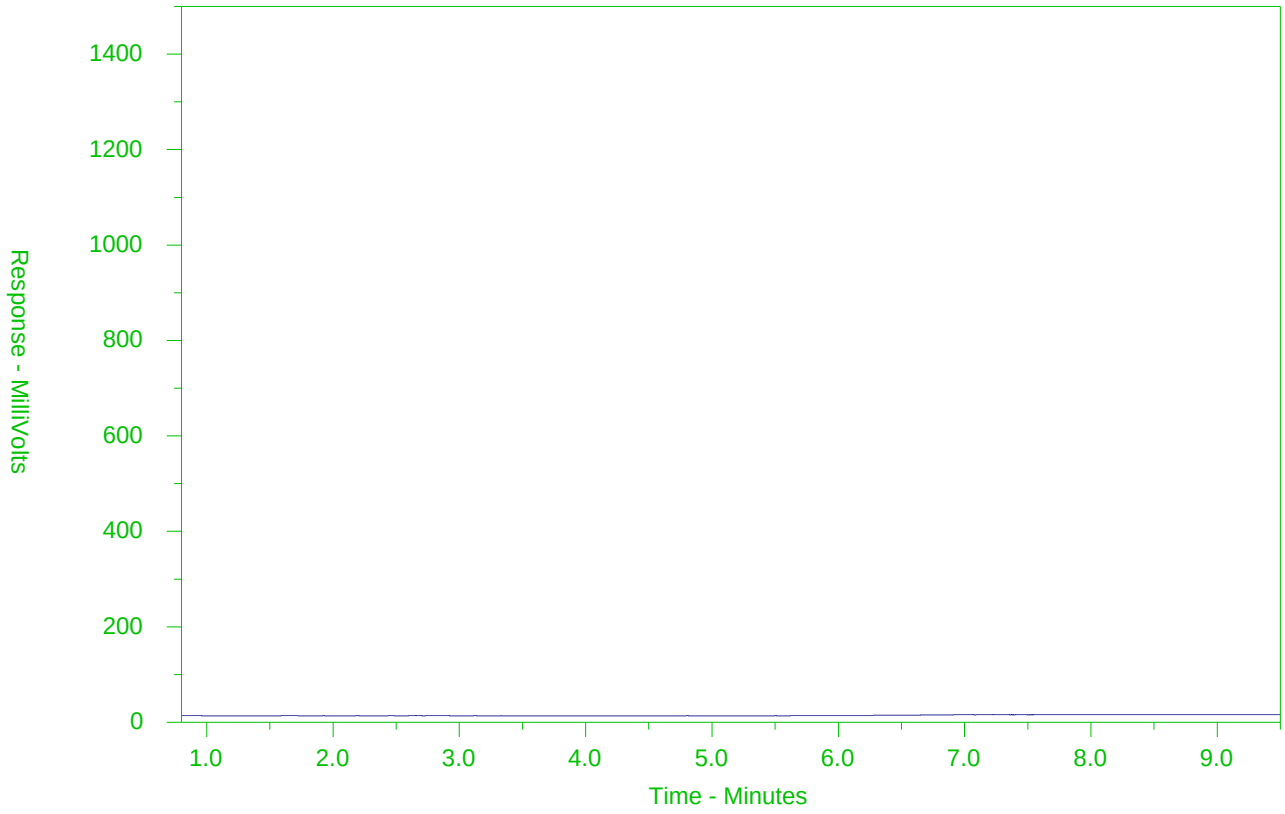
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

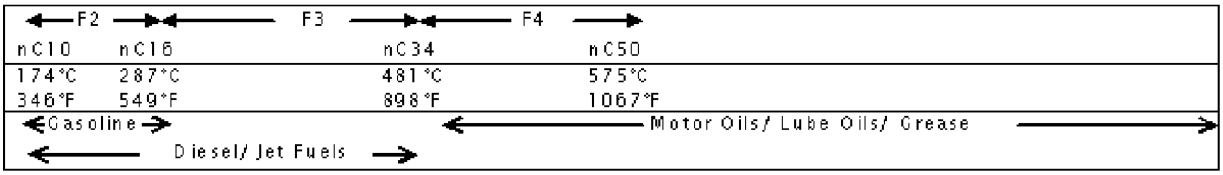
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-96
Client Sample ID: BH22-15 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

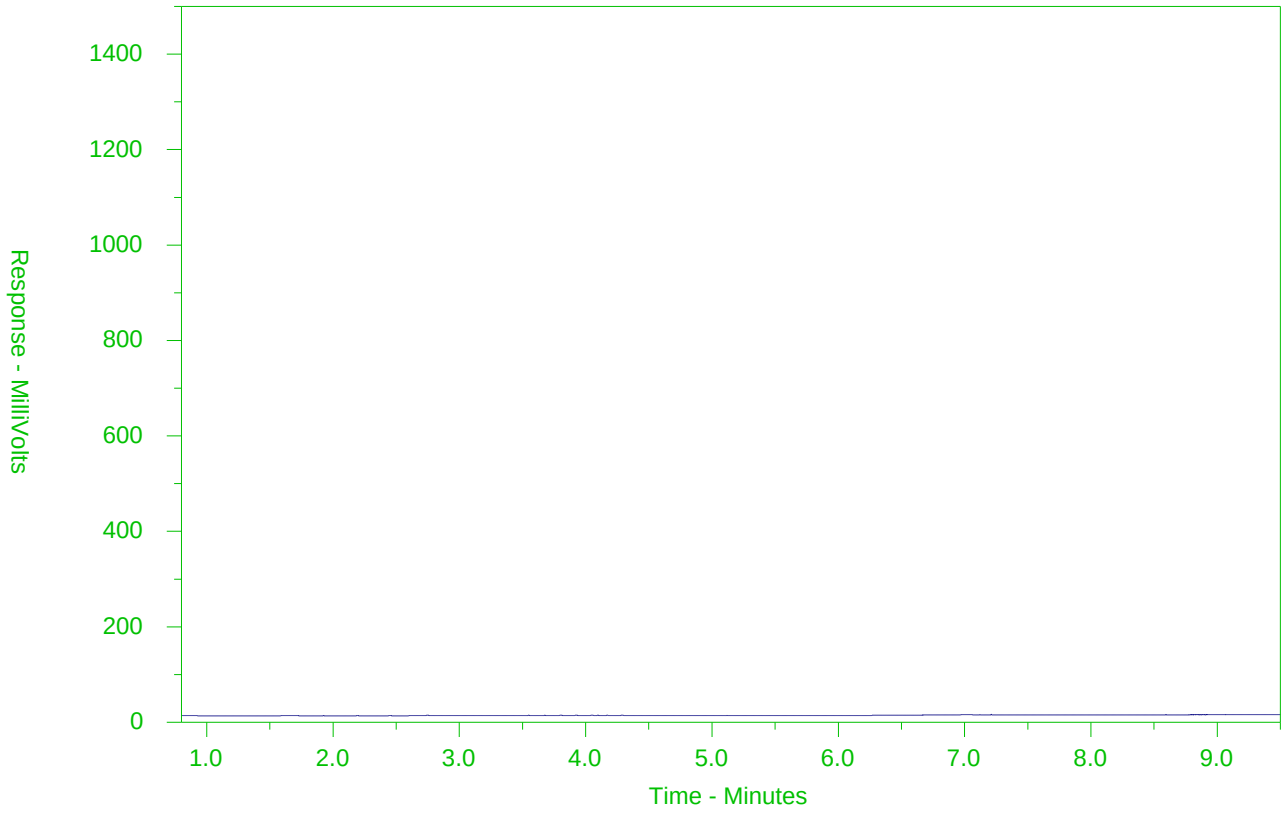
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

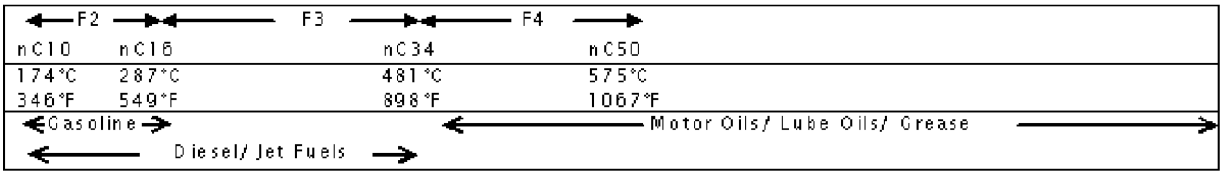
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-97
Client Sample ID: BH22-15 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

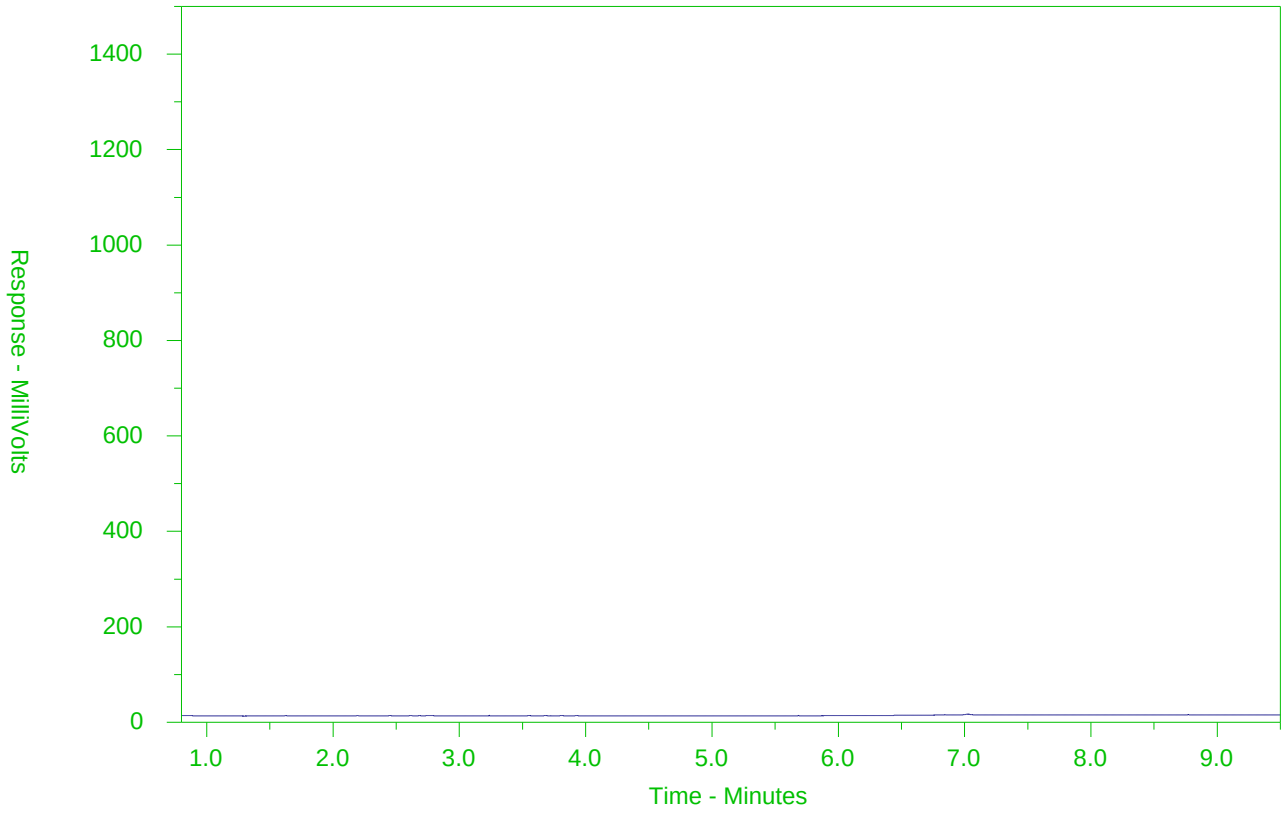
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

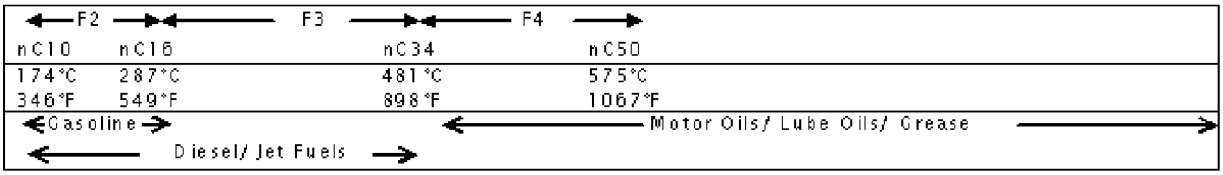
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-98
Client Sample ID: BH22-15 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

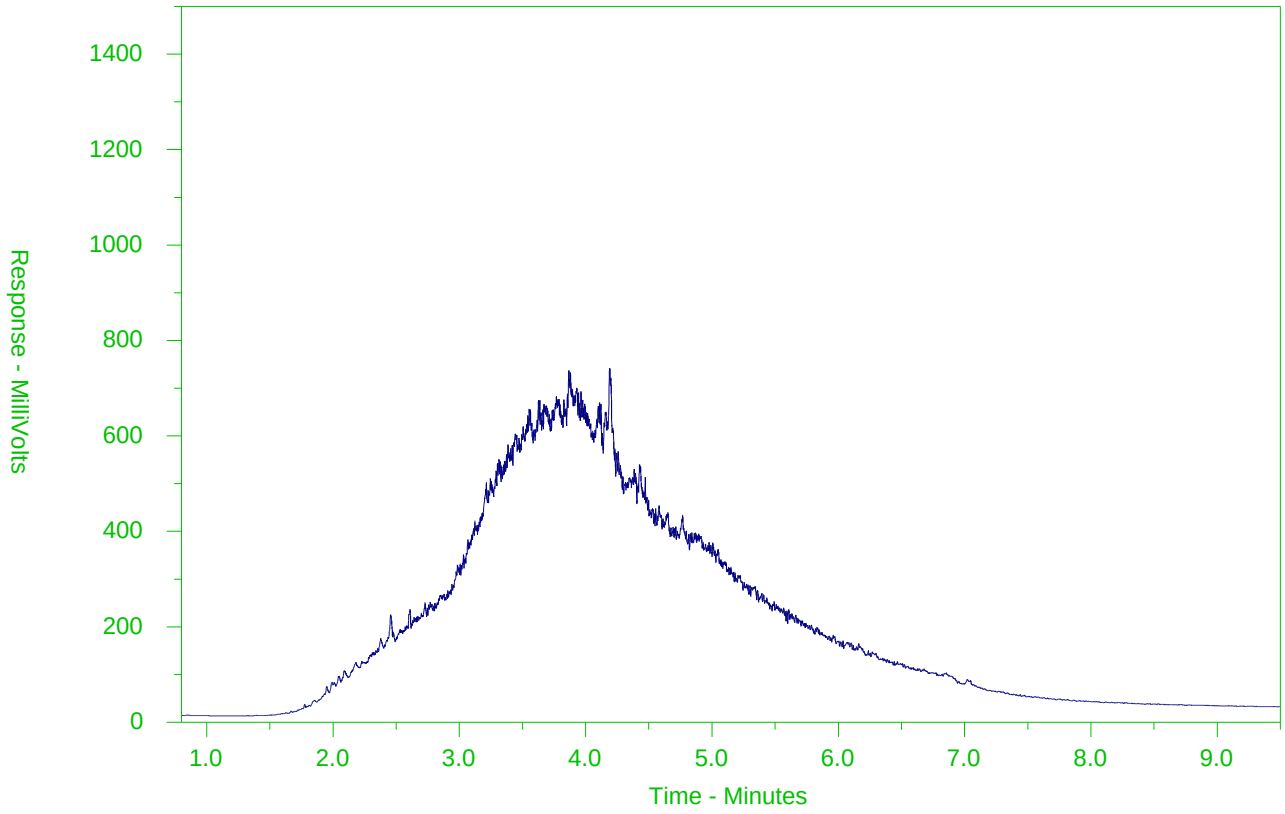
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

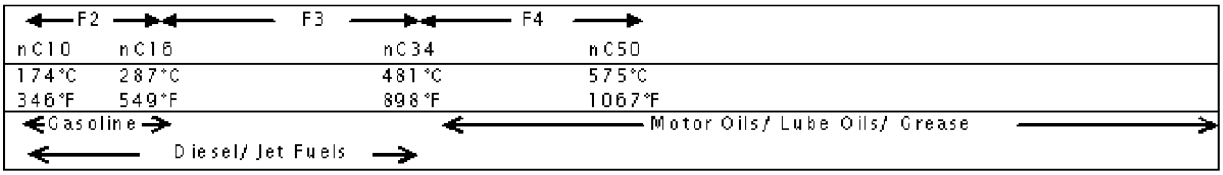
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-99
Client Sample ID: MW22-03 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

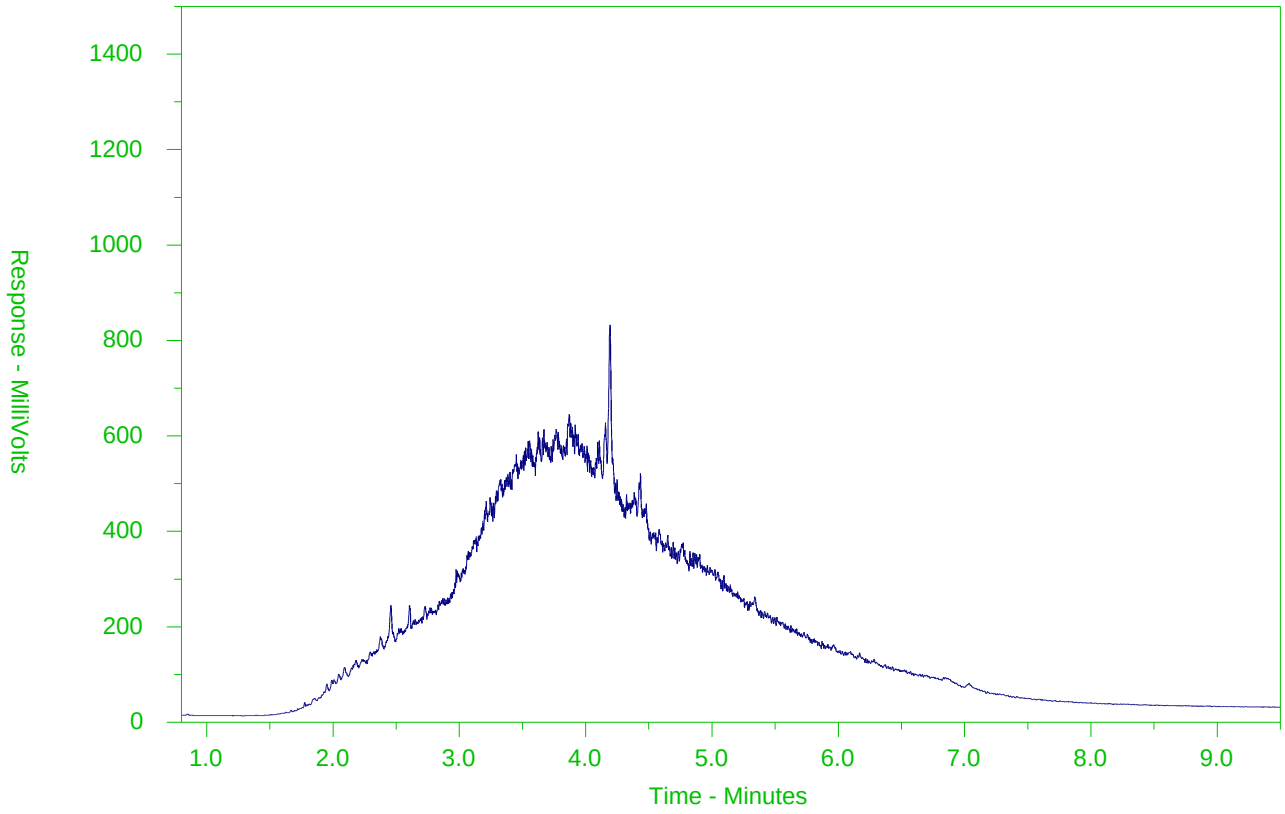
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

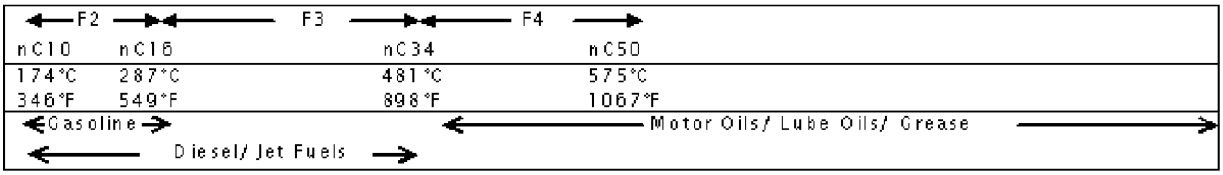
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-100
Client Sample ID: MW22-03 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

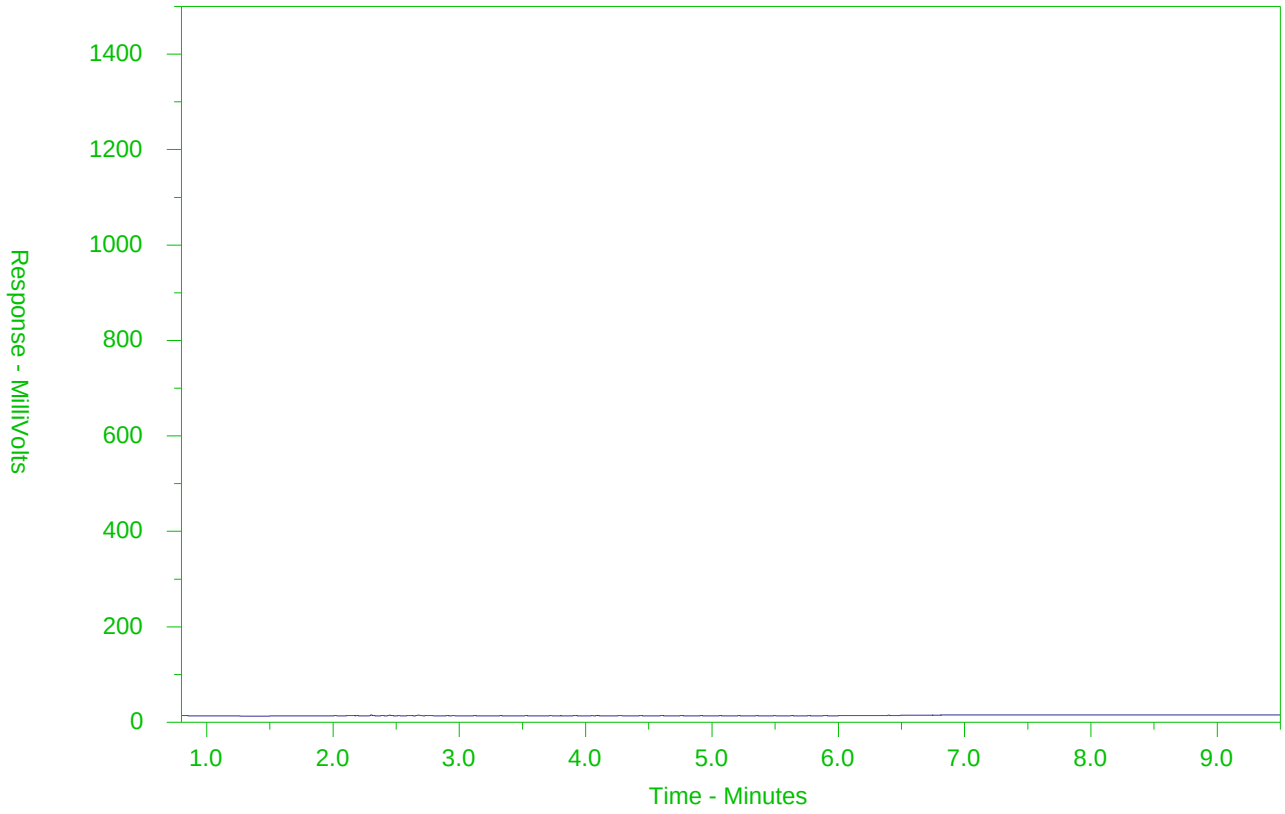
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

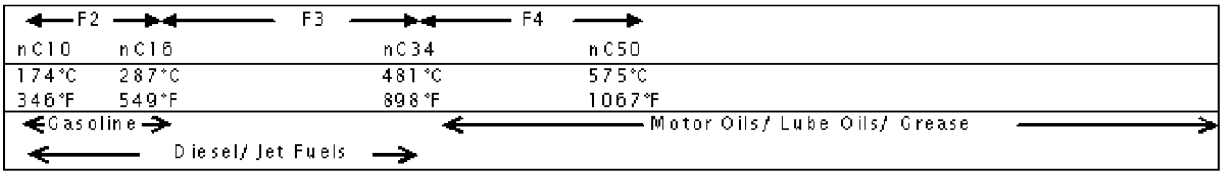
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-101
Client Sample ID: MW22-03 SS05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

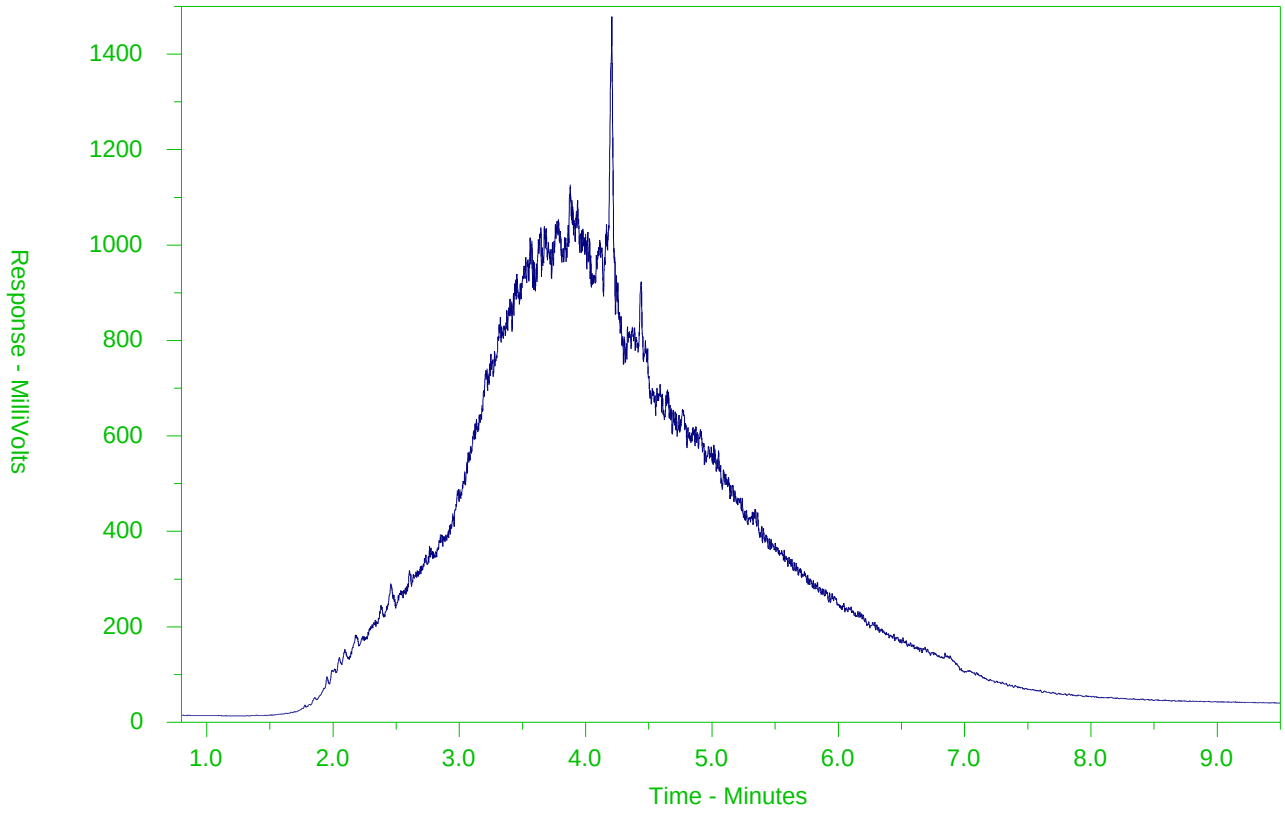
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

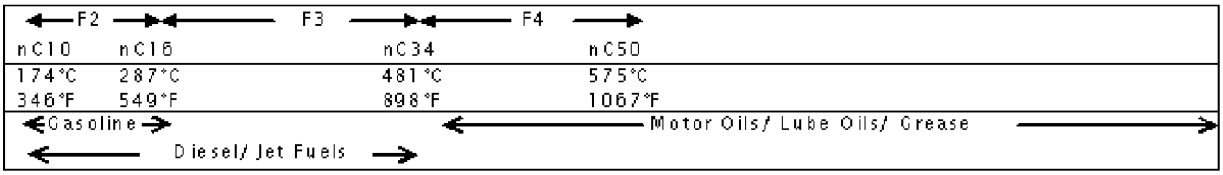
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-102
Client Sample ID: MW22-03 SS06





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

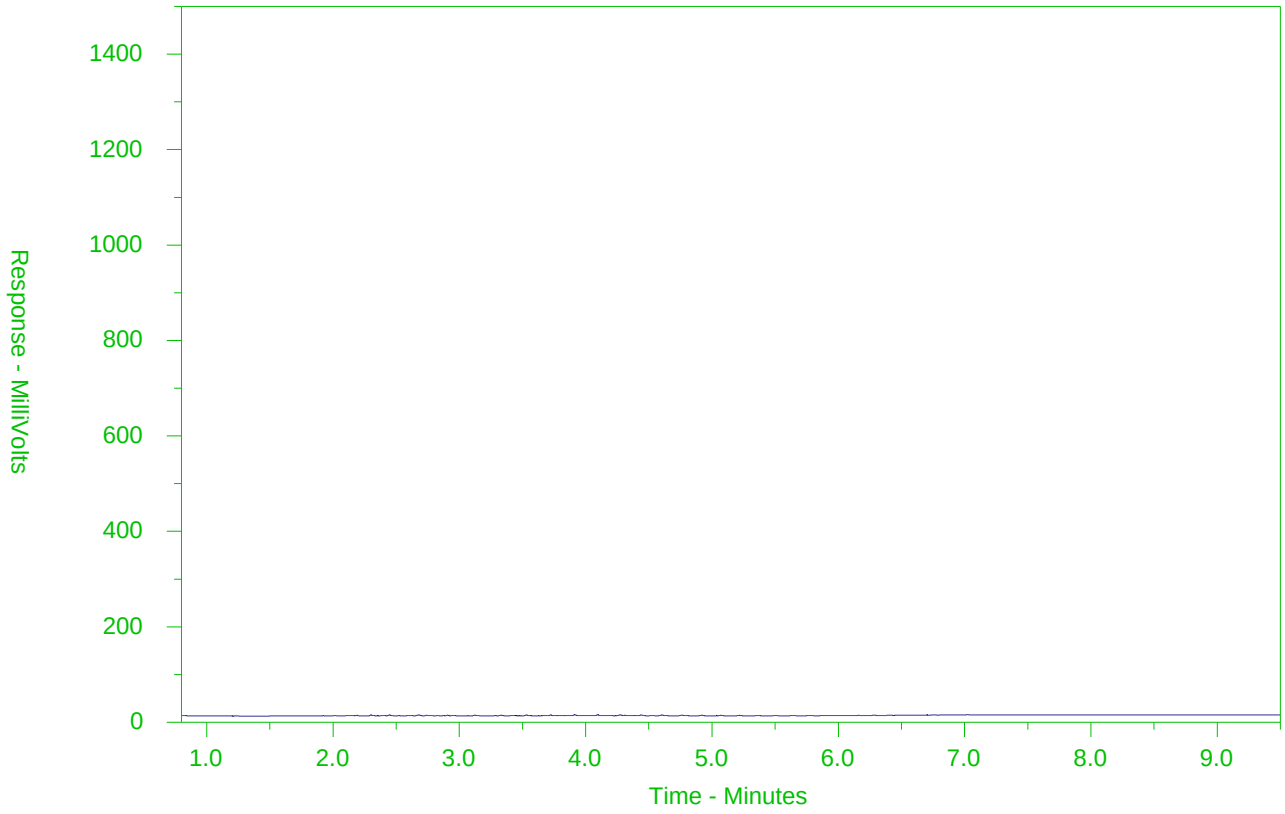
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

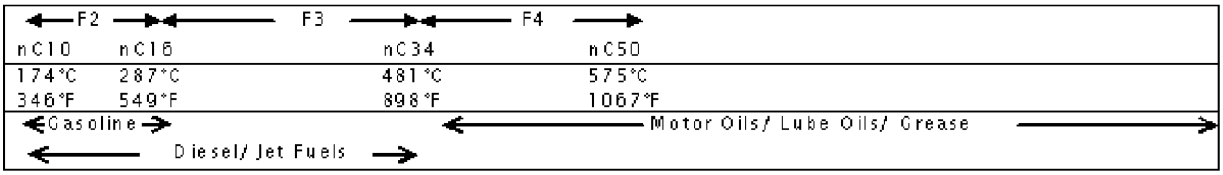
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-104
Client Sample ID: BH22-25 SS02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

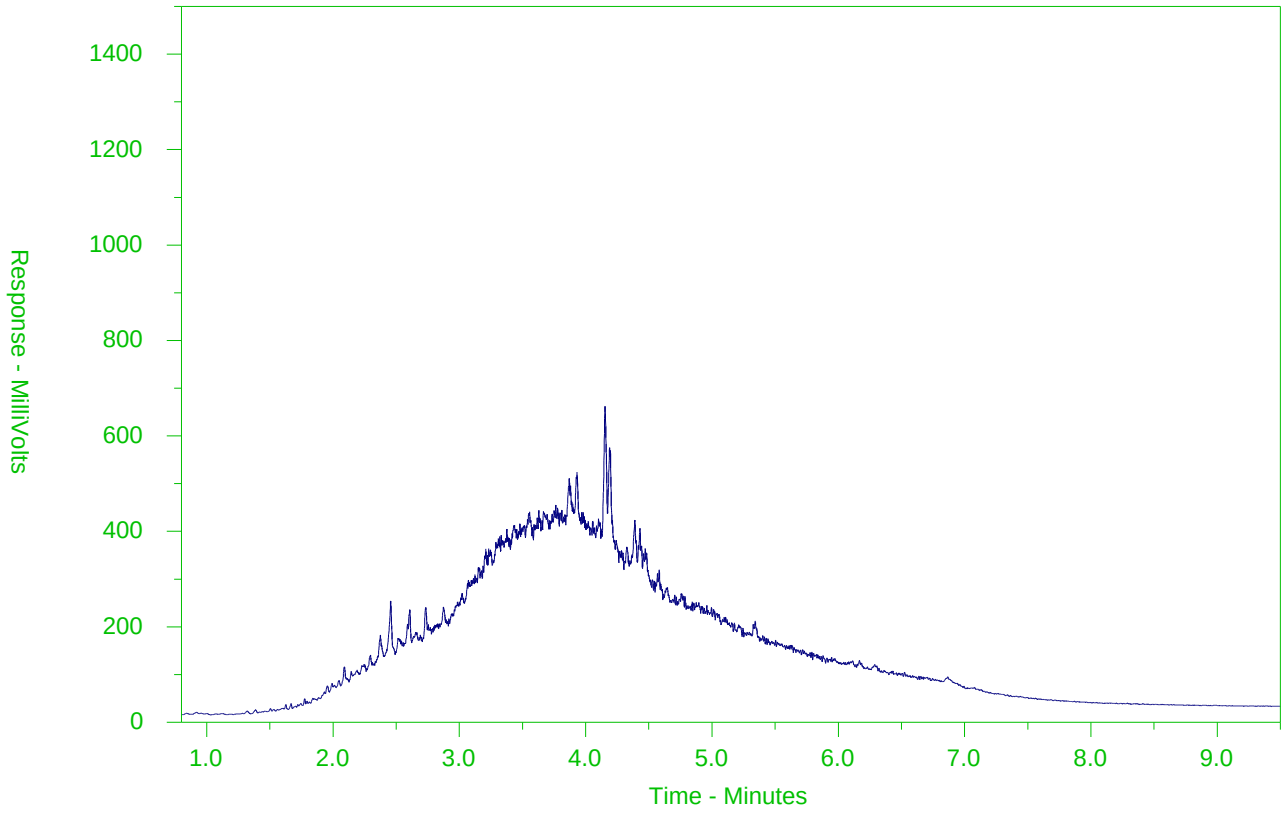
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

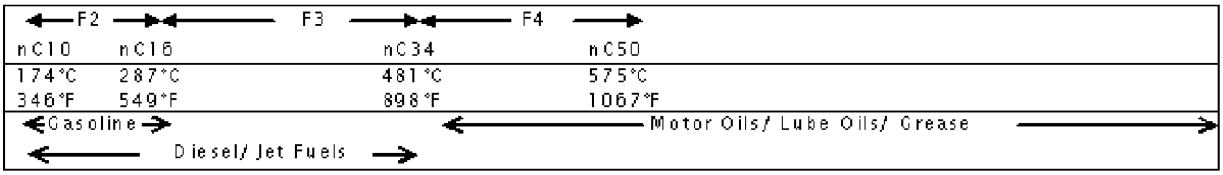
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-105
Client Sample ID: BH22-25 SS03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

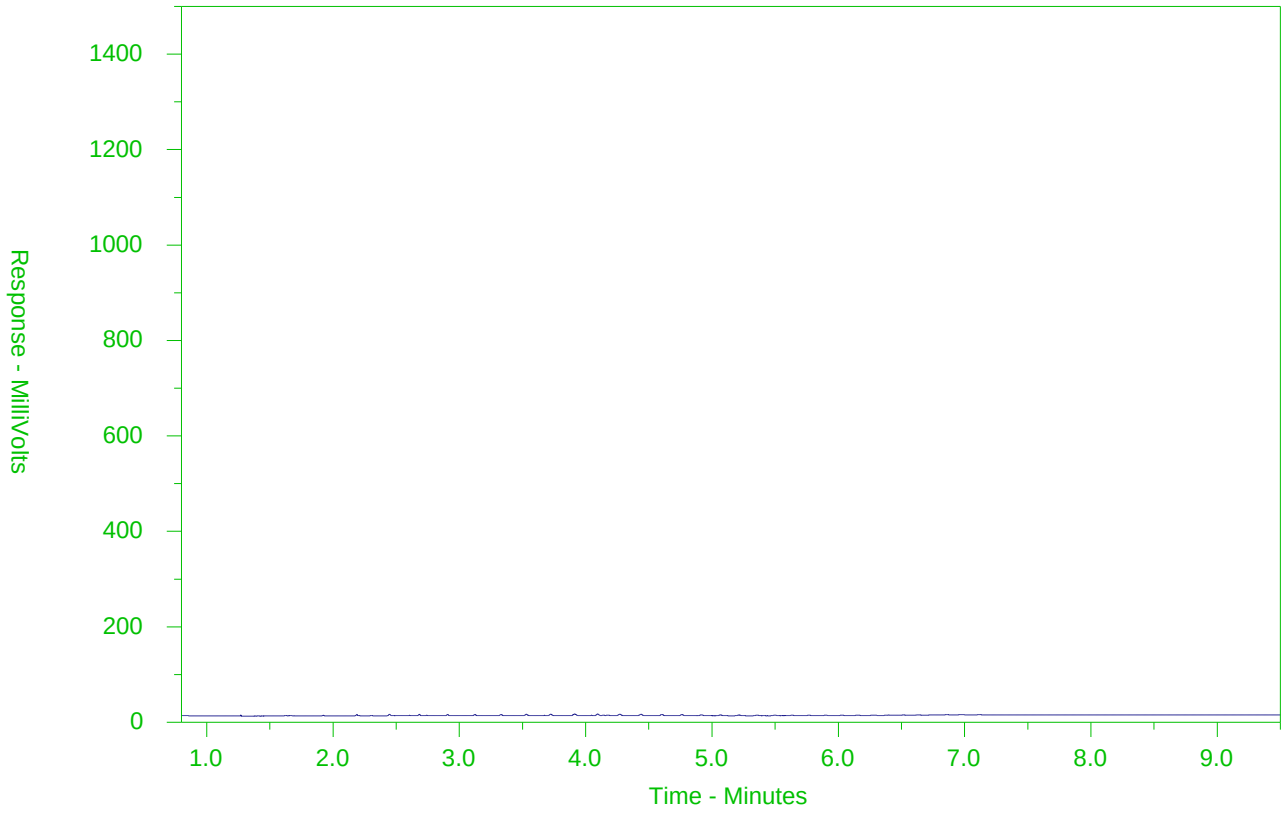
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

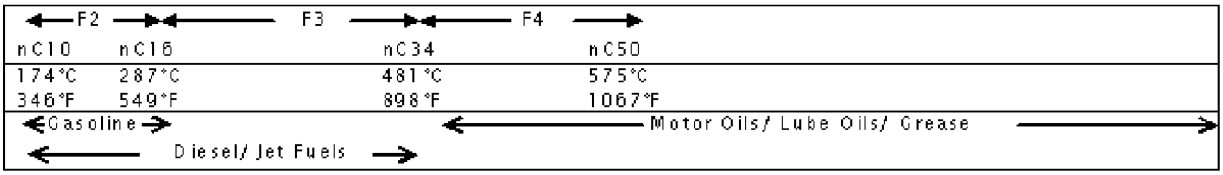
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-106
Client Sample ID: LAND FILL





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

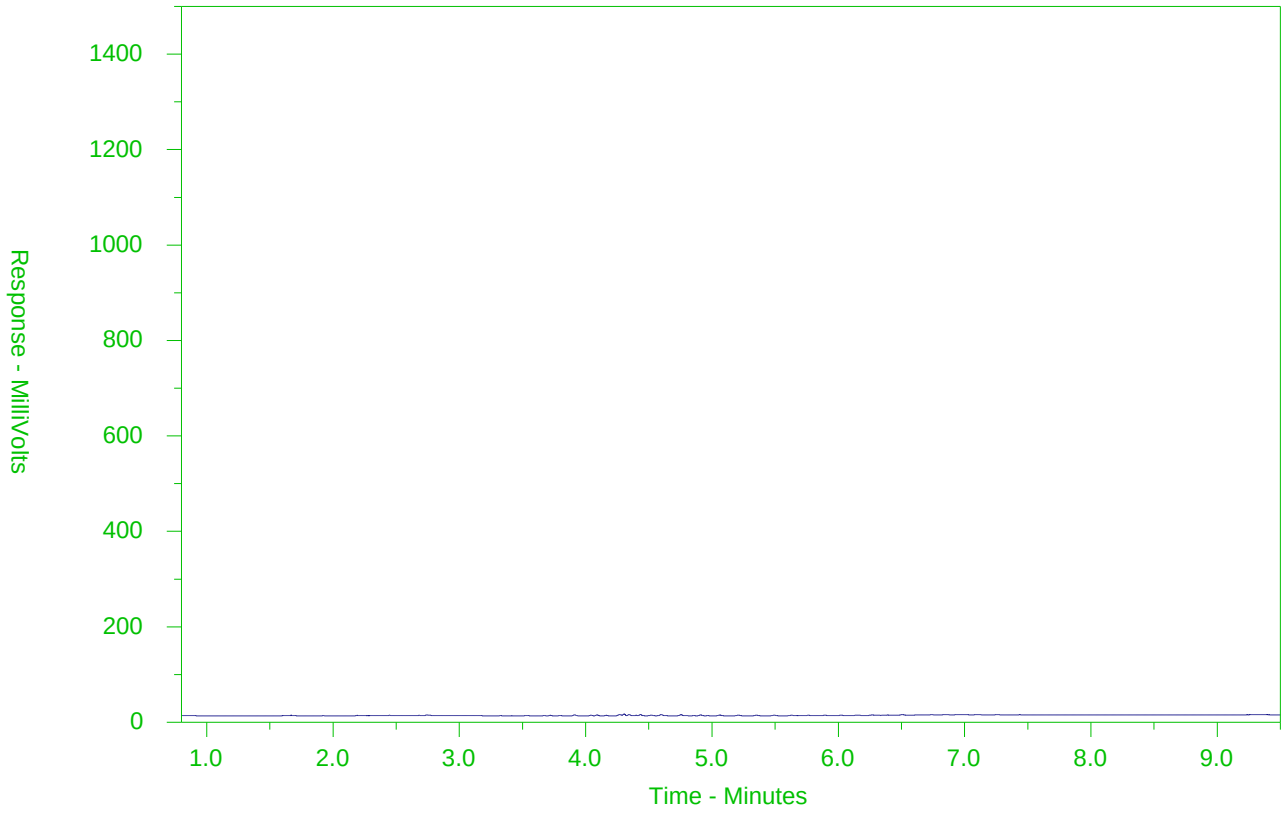
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

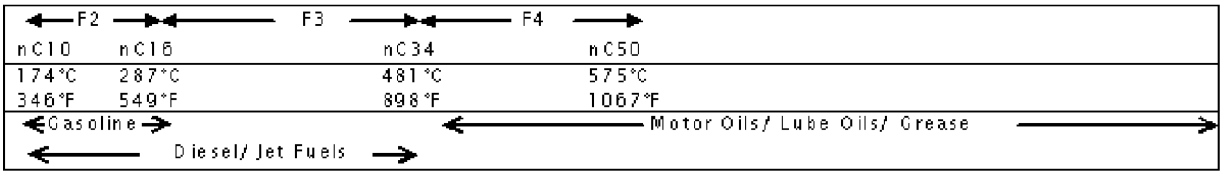
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739445-107
Client Sample ID: BH22-21 SS04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

ALS www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2739445-COFC

Report To	Contact and company name below will appear on the final report
Company:	AECOM
Contact:	Jen Murray
Phone:	204-803-9508
	Company address below will appear on the final report
Street:	99 Commerce Drive
City/Province:	Winnipeg, Manitoba
Postal Code:	R3P 0Y7

Invoice To		
	Same as Report To	☐ YES ☑ NO
	Copy of Invoice with Report	☐ YES ☑ NO
Company:	AECOM CANADA LTD	
Contact:	Account Payable	

Project Information	
ALS Account # / Quote #:	
Job #:	~~6068938~~ 60484163
PO / AFE:	
LSD:	
ALS Lab Work Order # (ALS use only):	

Reports / Recipients	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA	☑ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	Jen.Murray@aecom.com
Email 2	Jonathan.Ota@aecom.com
Email 3	Manny.Papadimitropoulos@aecom.com

Invoice Recipients	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	
Email 2	

Oil and Gas Required Fields (client use)		
AFE/Cost Center:		PO#
Major/Minor Code:		Routing Code:
Requisitioner:		
Location:		
ALS Contact:		Sampler:

Turnaround Time (TAT) Requested
☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

For all tests with rush TATs requested, please contact your AM to confirm availability.

Analysis Request

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	PHC (F_1-F_4)	PAH	PSA	Sal. inity	Metals	VOCs	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
1	BH22-01 SS01	Oct 31		Soil	5	✓	✓	✓			✓	✓			
2	BH22-01 SS03	"			4	✓	✓				✓	✓			
3	BH22-01 SS06	"			4	✓	✓				✓	✓			
4	BH22-03 SS01	"			1						✓	✓			
5	BH22-03 SS02	"			4	✓	✓				✓	✓			
6	BH22-03 SS04	"			5	✓	✓	✓			✓	✓			
7	BH22-03 SS06	"			4	✓	✓				✓	✓			
8	BH22-04 SS01	"			1						✓	✓			
9	BH22-04 SS02	"			5	✓	✓	✓			✓	✓			
10	BH22-04 SS04	"			4	✓	✓				✓	✓			
11	BH22-05 SS08	"			4	✓	✓	✓			✓	✓			
[illegible]															

Drinking Water (DW) Samples[1] (client use)	Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	
Are samples for human consumption/ use? ☐ YES ☐ NO	

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date: NOV 07 2022	Time:

FINAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

NB The Job no for all sample is 60484163, Please sample Containers with Job no 6068938 is the same as for 60484163.

ALS Environmental

www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

Affix ALS barcode label here (lab use only)

L2739445-COFC

Report To	Contact and company name below will appear on the final report
Company:	
Contact:	
Phone:	
Company address below will appear on the final report	
Street:	
City/Province:	
Postal Code:	

Report Format / Distribution	
Select Report Format:	☐ PDF ☐ EXCEL | | EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☐ EMAIL | | MAIL ☐ FAX
Email 1 or Fax	
Email 2	
Email 3	

Invoice To		
	Same as Report To	☐ YES ☐ NO
	Copy of Invoice with Report	☐ YES ☐ NO
Company:		
Contact:		

Invoice Distribution	
Select Invoice Distribution:	☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	~~6[illegible]~~ 60484163
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only):

ALS Contact:

Sampler:

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐; 3 day [P3-25%] ☐; 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐; Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	PHC (F_1-F_4)	Metals	PAH	PSA	Salinity	VOC's	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
12	BH 22-05 SS02	~~31~~ 01-Oct-22		Soil	4	✓	✓	✓				✓		
13	BH 22-05 SS04	"			5	✓	✓	✓	✓			✓		
14	BH 22-05 SS06	"			4	✓	✓	✓				✓		
15	MW 22-02 SS01	"			4	✓	✓	✓				✓		
16	MW 22-02 SS03	"			4	✓	✓	✓				✓		
17	MW 22-02 SS05	"			5	✓	✓	✓	✓			✓		
18	BH 22-09 SS01	~~01-Nov-22~~ 31-Oct-22			1			✓				✓		
19	BH 22-09 SS02	01-Nov-22			4	✓	✓	✓				✓		
20	BH 22-09 SS04	"			6	✓	✓	✓	✓	✓	✓	✓		
21	BH 22-09 SS06	"			4	✓	✓	✓				✓		
22	BH 22-13 SS01	"			1			✓						
23	BH 22-13 SS02	"		↓	4	✓	✓	✓				✓		

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	
Are samples for human consumption/ use? | | YES | | NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐

Ice Packs ☐ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5			

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date: NOV 07 2022	Time: ~~8~~

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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JUNE 2018 FRONT

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

ALS Environmental

www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

Affix ALS barcode label here (lab use only)

L2739445-COFC

Report To	Contact and company name below will appear on the final report
Company:	
Contact:	
Phone:	
Company address below will appear on the final report	
Street:	
City/Province:	
Postal Code:	

Report Format / Distribution	
Select Report Format:	☐ PDF ☐ EXCEL | EDD (DIGITAL)
Quality Control (QC) Report with Report	☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☐ EMAIL | MAIL ☐ FAX
Email 1 or Fax	
Email 2	
Email 3	

Invoice To	Same as Report To ☐ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Invoice Distribution	
Select Invoice Distribution:	☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	60484163
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (lab use only):

ALS Contact:

Sampler:

Select Service Level Below

Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days)
- 4 day [P4-20%] ☐
- 3 day [P3-25%] ☐
- 2 day [P2-50%] ☐

EMERGENCY
- 1 Business day [E - 100%] ☐
- Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	PHC (F1-F4)	Metals	PAH	PSA	Salinity	VOC's	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
24	BH 22-13 SS04	01-NOV-22		Soil	5	✓	✓	✓	✓			✓		
25	BH 22-10 SS02	"			5	✓	✓	✓	✓			✓		
26	BH 22-10 SS04	"			4	✓	✓	✓				✓		
27	BH 22-10 SS06	"			4	✓	✓	✓				✓		
28	BH 22-10 SS01	"			4	✓	✓	✓				✓		
29	BH 22-11 SS03	"			5	✓	✓	✓	✓			✓		
30	BH 22-11 SS05	"			4	✓	✓	✓				✓		
31	MW 22-01 SS02	"			5	✓	✓	✓	✓			✓		
32	MW 22-01 SS04	"			4	✓	✓	✓				✓		
33	MW 22-01 SS06	"			4	✓	✓	✓				✓		
34	BH 22-08 SS01	"			4	✓	✓	✓				✓		
35	BH 22-08 SS02	"			5	✓	✓	✓	✓			✓		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/ use? ☐ YES ☐ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐

Ice Packs ☐ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5			

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date: NOV 07 2022	Time: 8

FINAL SHIPMENT RECEPTION (lab use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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JUNE 2018 FRONT

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

Affix ALS barcode label here
(lab use only)

L2739445-COFC

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs
Company:		Select Report Format: ☐ PDF ☐ EXCEL ☐ EDD (DIGITAL)	Regular [R] ☑ Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:		Quality Control (QC) Report with Report ☐ YES ☐ NO	PRIORITY (Business Days): 4 day [P4-20%] ☐ / 3 day [P3-25%] ☐ / 2 day [P2-50%] ☐
Phone:		☐ Compare Results to Criteria on Report - provide details below if box checked	EMERGENCY: 1 Business day [E - 100%] ☐ / Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐
Company address below will appear on the final report		Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
Street:		Email 1 or Fax	For tests that can not be performed according to the service level selected, you will be contacted.
City/Province:		Email 2	
Postal Code:		Email 3	

Invoice To		Invoice Distribution	
	Same as Report To ☐ YES ☐ NO	Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX	
	Copy of Invoice with Report ☐ YES ☐ NO	Email 1 or Fax	
Company:		Email 2	
Contact:			

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:	60484163	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	

ALS Lab Work Order # (lab use only):

ALS Contact:

Sampler:

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	PHC (F1-F4)	Metals	PAH	PSA	Salinity	VOCs	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
39	BH22-08 SS04	01-NOV-22		Soil	4	✓	✓	✓			*	✓		
7	BH22-07 SS01	"			4	✓	✓	✓				✓		
8	BH22-07 SS03	"			4	✓	✓	✓				✓		
9	BH22-07 SS05	"			5	✓	✓	✓	✓			✓		
40	BH22-07 SS06	"			5	✓	✓	✓	✓			✓		
1	BH22-02 SS01	"			1			✓						
2	BH22-02 SS02	"			4	✓	✓	✓				✓		
3	BH22-02 SS04	"			5	✓	✓	✓	✓			✓		
4	BH22-06 SS02	02-Nov-22			4	✓	✓	✓				✓		
5	BH22-06-SS03	"			5	✓	✓	✓	✓			✓		
44	BH22-06-SS05	"			4	✓	✓	✓				✓		

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	
Are samples for human consumption/ use? ☐ YES ☐ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐
Ice Packs ☐ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐
Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date: NOV 07 2022	Time:	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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JUNE 2018 FRONT

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2739445-COFC

Report To	Contact and company name below will appear on the final report
Company:	
Contact:	
Phone:	
	Company address below will appear on the final report
Street:	
City/Province:	
Postal Code:	
Invoice To	Same as Report To ☐ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Reports / Recipients

Select Report Format: ☐ PDF ☐ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☐ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax

Email 2

Email 3

Invoice Recipients

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax

Email 2

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

☐ Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

For all tests with rush TATs requested, please contact your AM to confirm availability.

Project Information

ALS Account # / Quote #:

Job #: 60454163

PO / AFE:

LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#

Major/Minor Code: Routing Code:

Requisitioner:

Location:

ALS Lab Work Order # (ALS use only):

ALS Contact: Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	PHC (F1-F4)	Metals	PAH	PSA	Salinity	VOC's	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
1	BH22-12 SS01	02-NOV-22		Soil	7	✓	✓	✓	✓	✓	✓	✓			
8	BH22-12 SS03	"			4	✓	✓	✓				✓			
9	BH22-12 SS05	"			4	✓	✓	✓				✓			
10	BH22-14 SS01	"			6	✓	✓	✓	✓		✓	✓			
11	BH22-14 SS03	"			4	✓	✓	✓				✓			
12	BH22-14 SS05	"			4	✓	✓	✓				✓			
13	BH22-14 SS14	"			5	✓	✓	✓	✓			✓			
14	BH22-19 SS01	03-NOV-22			5	✓	✓	✓	✓			✓			
15	BH22-19 SS04	"			4	✓	✓	✓				✓			
16	BH22-19 SS06	"			4	✓	✓	✓				✓			
17	ST-A1	"			5	✓	✓	✓	✓			✓			
18	ST-A2	"		↓	5	✓	✓	✓	✓			✓			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/ use? ☐ YES ☐ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5			

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:
	NOV 07 2022	

FINAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

COC Numl

Page 6

L2739445-COFC

Report To	Contact and company name below will appear on the final report
Company:	AECOM
Contact:	Jen Murray
Phone:	204-803-9508
	Company address below will appear on the final report
Street:	99 Commerce Drive
City/Province:	Winnipeg, Manitoba
Postal Code:	R3P 0Y7
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	AECOM Canada Ltd.
Contact:	Accounts Payable

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☑ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Jen.Murray@aecom.com

Email 2: Manny.Papadimitropoulos@aecom.com

Email 3: Jonathan.Ota @aecom.com

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: CANSSC.E-billing@aecom.com

Email 2:

Turnaround Time (TA

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

For all tests with rush TATs requested, please contact your AM to confirm availability.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Project Information	
ALS Account # / Quote #:	
Job #:	60464163
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (ALS use only):

ALS Contact:

Sampler: MP

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	F1-F4	PAH's	RCA metals	VOC	RASH	PSA	Salmi 13	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
59	BH22-20 SS01	03-NOV-22		Soil	5	✓	✓	✓	✓	✓						
60	BH22-20 SS04	"		Soil	4	✓	✓		✓	✓						
1	BH22-20 SS05	"		Soil	4	✓	✓		✓	✓						
2	C-LD	"		Soil	5	✓	✓	✓	✓	✓						
3	BH22-16 SS01	04-NOV-22		Soil	5	✓	✓		✓	✓						
4	BH22-16 SS03	"		Soil	6	✓	✓	✓	✓	✓		✓	✓			
5	BH22-16 SS05	"		Soil	4	✓	✓		✓	✓						
6	BH22-17 SS01	"		Soil	1				✓							
7	BH22-17 SS02	"		Soil	4	✓	✓		✓	✓						
8	BH22-17 SS03	"		Soil	5	✓	✓	✓	✓	✓						
09	BH22-17 SS05	"		Soil	4	✓	✓		✓	✓						
				Soil												

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System?
☐ YES ☑ NO

Are samples for human consumption/ use?
☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by:	Date:	Time:	Received by:	Date: NOV 0 7 2022	Time: 8	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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Canada Toll Free: 1 800 668 9878

COC Nu

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L2739445-COFC

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Contact:	Jen Murray
Phone:	204-803-9508
	Company address below will appear on the final report
Street:	99 Commerce Drive
City/Province:	Winnipeg, Manitoba
Postal Code:	R3P 0Y7
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	AECOM Canada Ltd.
Contact:	Accounts Payable

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☑ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax Jen.Murray@aecom.com

Email 2 Manny.Papadimitropoulos@aecom.com

Email 3 Jonathan.Ota @aecom.com

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax CANSSC.E-billing@aecom.com

Email 2

Turnaround Time (

☑ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

For all tests with rush TATs requested, please contact your AM to confirm availability.

Project Information

ALS Account # / Quote #:	
Job #:	
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (ALS use only):

ALS Contact:

Sampler: MP

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	F1-F4	PAH's	~~PCBs~~ metal	VOC	PSA	Salinity	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
70	MW22-04 SS01	04-NOV-22		Soil	4	✓	✓		✓	✓					
71	MW22-04 SS03	〃		Soil	5	✓	✓	✓	✓	✓					
72	MW22-04 SS04	〃		Soil	4	✓	✓	[redacted]	✓	✓					
73	~~PCBs~~ MW22-05 SS01	〃		Soil	5	✓	✓	✓	✓	✓					
74	MW22-05 SS02	〃		Soil	4	✓	✓		✓	✓					
75	MW22-05 SS04	〃		Soil	4	✓	✓		✓	✓					
76	BH22-24 SS01	〃		Soil	1				✓						
77	BH22-24 SS02	〃		Soil	4	✓	✓		✓	✓					
78	BH22-24 SS03	〃		Soil	5	✓	✓	✓	✓	✓					
79	BH22-23 SS01	〃		Soil	5	✓	✓	✓	✓	✓					
80	BH22-23 SS03	〃		Soil	4	✓	✓		✓	✓					
81	BH22-23 SS05	〃		Soil	4	✓	✓		✓	✓					

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by:	Date:	Time:	Received by:	Date: NOV 07 2022	Time: 8	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

COC Nu

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L2739445-COFC

Report To	Contact and company name below will appear on the final report
Company:	AECOM
Contact:	Jen Murray
Phone:	204-803-9508
	Company address below will appear on the final report
Street:	99 Commerce Drive
City/Province:	Winnipeg, Manitoba
Postal Code:	R3P 0Y7
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	AECOM Canada Ltd.
Contact:	Accounts Payable

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☑ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Jen.Murray@aecom.com

Email 2: Manny.Papadimitropoulos@aecom.com

Email 3: Jonathan.Ota @aecom.com

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: CANSSC.E-billing@aecom.com

Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

For all tests with rush TATs requested, please contact your AM to confirm availability.

Project Information	
ALS Account # / Quote #:	
Job #:	
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (ALS use only):

ALS Contact:

Sampler: MP

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	F1-F4	PAH's	~~PCBs~~ Metal	VOC	PSA	Salinity	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
62	BH 22-22 SS01	05-NOV-22		Soil	1				✓						
3	BH 22-22 SS02	"		Soil	4	✓	✓		✓	✓					
4	BH 22-22 SS04	"		Soil	5	✓	✓	✓	✓	✓					
5	BH 22-22 SS06	"		Soil	4	✓	✓	✓	✓	✓					
6	BH 22-22 SS08	"		Soil	5	✓	✓	✓	✓	✓					
7	BH 22-21 SS02	"		Soil	5	✓	✓	✓	✓	✓					
8	BH 22-21 SS03	"		Soil	4	✓	✓		✓	✓					
9	BH 22-18 SS01	"		Soil	4	✓	✓		✓	✓					
90	BH 22-18 SS 02	"		Soil	5	✓	✓	✓	✓	✓					
1	BH22-18 SS 03	"		Soil	4	✓	✓		✓	✓					
2	BH22-18 SS 06	"		Soil	4	✓	✓		✓	✓					
93	BH 22-25 SS05	"		Soil	4	✓	✓		✓	✓					

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				7			

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date: NOV 0 7 2022	Time: 8

FINAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

COC Numl

Page 9

L2739445-COFC

Report To	Contact and company name below will appear on the final report
Company:	AECOM
Contact:	Jen Murray
Phone:	204-803-9508
	Company address below will appear on the final report
Street:	99 Commerce Drive
City/Province:	Winnipeg, Manitoba
Postal Code:	R3P 0Y7
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	AECOM Canada Ltd.
Contact:	Accounts Payable

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☑ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Jen.Murray@aecom.com

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Email 3: Jonathan.Ota @aecom.com

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: CANSSC.E-billing@aecom.com

Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
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☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
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AFFIX ALS BARCODE LABEL HERE (ALS use only)

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

For all tests with rush TATs requested, please contact your AM to confirm availability.

Project Information

ALS Account # / Quote #:

Job #:

PO / AFE:

LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#

Major/Minor Code: Routing Code:

Requisitioner:

Location:

ALS Lab Work Order # (ALS use only):

ALS Contact:

Sampler: MP

Analysis Request

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	F1-F4	PAH's	PCB's Metals	PSA	Solvents	VOC	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
94	BH 22-15 SS01	03 NOV-22		Soil	1				✓						
5	BH22-15 SS02	"		Soil	5	✓	✓	✓	✓			✓			
6	BH 22-15 SS 03	"		Soil	4	✓	✓		✓			✓			
7	BH 22-15 SS 04	"		Soil	4	✓	✓		✓			✓			
8	BH 22-15 SS06	"		Soil	4	✓	✓		✓			✓			
9	MW 22-03 SS02	"		Soil	5	✓	✓	✓	✓			✓			
100	MW 22-03 SS 03	"		Soil	4	✓	✓		✓			✓			
01	MW 22-03 SS05	"		Soil	4	✓	✓		✓			✓			
02	MW 22-03 SS 06	"		Soil	4	✓	✓		✓			✓			
03	BH 22-25 SS 01	"		Soil	1				✓						
04	BH22-25 SS02	"		Soil	4	✓	✓		✓			✓			
105	BH 22-25 SS03	"		Soil	5	✓	✓	✓	✓			✓			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5			

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (ALS use only)			FINAL SHIPMENT RECEPTION (ALS use only)		
Released by:	Date:	Time:	Received by:	Date: NOV 07 2022	Time: 8	Received by:	Date:	Time:

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1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form.**

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	Company address below will appear on the final report
Street:	99 Commerce Drive
City/Province:	Winnipeg, Manitoba
Postal Code:	R3P 0Y7
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	AECOM Canada Ltd.
Contact:	Accounts Payable

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☑ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Jen.Murray@aecom.com

Email 2: Manny.Papadimitropoulos@aecom.com

Email 3: Jonathan.Ota @aecom.com

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: CANSSC.E-billing@aecom.com

Email 2:

Turnaround Time (TAT) Requested

- ☐ Routine [R] if received by 3pm M-F - no surcharges apply
- ☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
- ☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
- ☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
- ☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
- ☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

For all tests with rush TATs requested, please contact your AM to confirm availability.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Project Information

ALS Account # / Quote #:	
Job #:	60484163
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (ALS use only):

ALS Contact:

Sampler: MP

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	F1-F4 CCME PHC (F1-F4)	PAH's	RCBs	Phenols	Metals (Ag, As, Ba, Be, Co, Cu, Cr, Cr6+, Hg, Pb, Mo, Al, Sb, Se, Sn, Ti, U, V, Zn)	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
106	Land fill	03-Nov-22		Soil	6	✓	✓	✓	✓	✓				
				Soil										
				Soil										
				Soil										
				Soil										
				Soil										
				Soil										
				Soil										
				Soil										
				Soil										
				Soil										
				Soil										
				Soil										

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
				5			

SHIPMENT RELEASE (client use)

Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:
	NOV 07 2022	8

FINAL SHIPMENT RECEPTION (ALS use only)

Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

AECOM Canada Ltd.
ATTN: JEN MURRAY
99 Commerce Drive
Winnipeg MB R3P 0Y7

Date Received: 09-NOV-22
Report Date: 30-NOV-22 16:17 (MT)
Version: FINAL

Client Phone: 204-477-5381

Certificate of Analysis

Lab Work Order #: L2739914

Project P.O. #: 60484163
Job Reference: 60484163
C of C Numbers:
Legal Site Desc:

Hua Wo
Chemistry Laboratory Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-1 MW22-01							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	FIELD					14-NOV-22	R5891323
Aluminum (Al)-Dissolved	0.0037		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Antimony (Sb)-Dissolved	0.00024		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Arsenic (As)-Dissolved	0.00159		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Barium (Ba)-Dissolved	0.0651		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Boron (B)-Dissolved	0.307		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cadmium (Cd)-Dissolved	0.0000897		0.0000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Calcium (Ca)-Dissolved	262		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Cesium (Cs)-Dissolved	0.000011		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Chromium (Cr)-Dissolved	0.00039		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cobalt (Co)-Dissolved	0.00439		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Copper (Cu)-Dissolved	0.00390		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Lead (Pb)-Dissolved	0.000070		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Lithium (Li)-Dissolved	0.359		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Magnesium (Mg)-Dissolved	371		0.050	mg/L	14-NOV-22	16-NOV-22	R5894360
Manganese (Mn)-Dissolved	1.85		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Molybdenum (Mo)-Dissolved	0.00975		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Nickel (Ni)-Dissolved	0.0233		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Phosphorus (P)-Dissolved	0.097		0.030	mg/L	14-NOV-22	14-NOV-22	R5892156
Potassium (K)-Dissolved	5.45		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Rubidium (Rb)-Dissolved	0.00285		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Selenium (Se)-Dissolved	0.000239		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silicon (Si)-Dissolved	14.2		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silver (Ag)-Dissolved	0.000016		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sodium (Na)-Dissolved	166		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Strontium (Sr)-Dissolved	1.76		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sulfur (S)-Dissolved	340		0.50	mg/L	14-NOV-22	14-NOV-22	R5892156
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Thallium (Tl)-Dissolved	0.000032		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Tin (Sn)-Dissolved	0.00145		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Titanium (Ti)-Dissolved	0.00055		0.00030	mg/L	14-NOV-22	14-NOV-22	R5892156
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Uranium (U)-Dissolved	0.0353		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Vanadium (V)-Dissolved	0.00232		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Zinc (Zn)-Dissolved	0.0150		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Zirconium (Zr)-Dissolved	0.00664		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
CCME PAHs in mg/L							
1-Methylnaphthalene	0.000306		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
2-Methylnaphthalene	0.000046		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthene	0.000027		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Acridine	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-1 MW22-01							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
CCME PAHs in mg/L							
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Chrysene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Dibenz(a,h)anthracene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluoranthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluorene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Naphthalene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Phenanthrene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Quinoline	<0.000054	DLQ	0.000054	mg/L	16-NOV-22	17-NOV-22	R5893300
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	16-NOV-22	17-NOV-22	R5893300
Surrogate: Naphthalene d8	98.9		50-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Phenanthrene d10	105.0		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Chrysene d12	99.5		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Acridine d9	92.1		60-130	%	16-NOV-22	17-NOV-22	R5893300
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	0.15		0.10	mg/L	16-NOV-22	16-NOV-22	R5893096
F3 (C16-C34)	<0.25		0.25	mg/L	16-NOV-22	16-NOV-22	R5893096
F4 (C34-C50)	<0.25		0.25	mg/L	16-NOV-22	16-NOV-22	R5893096
Surrogate: 2-Bromobenzotrifluoride	124.3		60-140	%	16-NOV-22	16-NOV-22	R5893096
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		17-NOV-22	
F2-Naphth	0.15		0.10	mg/L		17-NOV-22	
F3-PAH	<0.25		0.25	mg/L		17-NOV-22	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		17-NOV-22	
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		15-NOV-22	R5893076
Benzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromochloromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromodichloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromoform	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
n-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
sec-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
tert-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Carbon disulfide	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
Carbon Tetrachloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroform	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
2-Chlorotoluene	<0.020		0.020	mg/L		15-NOV-22	R5893076
4-Chlorotoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromochloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dibromoethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-1 MW22-01							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
VOC plus F1 by GCMS							
Dibromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1-dichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
1,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Ethylbenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
F1	<0.10		0.10	mg/L		15-NOV-22	R5893076
Hexachlorobutadiene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Hexane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		15-NOV-22	R5893076
Isopropylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
4-Isopropyltoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
MEK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MIBK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MTBE	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Styrene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Tetrachloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Toluene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichlorofluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,3-Trichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3,5-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Vinyl Chloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
M+P-Xylenes	<0.00040		0.00040	mg/L		15-NOV-22	R5893076
o-Xylene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Surrogate: 4-Bromofluorobenzene (SS)	83.6		70-130	%		15-NOV-22	R5893076
Surrogate: 1,4-Difluorobenzene (SS)	86.7		70-130	%		15-NOV-22	R5893076
Surrogate: 3,4-Dichlorotoluene (SS)	87.0		70-130	%		15-NOV-22	R5893076
L2739914-2 MW22-02							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-2 MW22-02							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	FIELD					14-NOV-22	R5891323
Aluminum (Al)-Dissolved	0.0036		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Antimony (Sb)-Dissolved	0.00030		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Arsenic (As)-Dissolved	0.00324		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Barium (Ba)-Dissolved	0.0526		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Boron (B)-Dissolved	0.290		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cadmium (Cd)-Dissolved	0.0000528		0.0000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Calcium (Ca)-Dissolved	263		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Cesium (Cs)-Dissolved	0.000014		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Chromium (Cr)-Dissolved	0.00138		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cobalt (Co)-Dissolved	0.00065		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Copper (Cu)-Dissolved	0.00846		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Lithium (Li)-Dissolved	0.693		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Magnesium (Mg)-Dissolved	1080		0.050	mg/L	14-NOV-22	16-NOV-22	R5894360
Manganese (Mn)-Dissolved	0.198		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Molybdenum (Mo)-Dissolved	0.0248		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Nickel (Ni)-Dissolved	0.00883		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Phosphorus (P)-Dissolved	0.222		0.030	mg/L	14-NOV-22	14-NOV-22	R5892156
Potassium (K)-Dissolved	9.21		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Rubidium (Rb)-Dissolved	0.00279		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Selenium (Se)-Dissolved	0.00629		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silicon (Si)-Dissolved	10.3		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silver (Ag)-Dissolved	0.000017		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sodium (Na)-Dissolved	781		0.50	mg/L	14-NOV-22	16-NOV-22	R5894360
Strontium (Sr)-Dissolved	2.78		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sulfur (S)-Dissolved	1480		5.0	mg/L	14-NOV-22	16-NOV-22	R5894360
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Thallium (Tl)-Dissolved	0.000031		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Tin (Sn)-Dissolved	0.00073		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Titanium (Ti)-Dissolved	0.00085		0.00030	mg/L	14-NOV-22	14-NOV-22	R5892156
Tungsten (W)-Dissolved	0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Uranium (U)-Dissolved	0.308		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Vanadium (V)-Dissolved	0.00216		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Zinc (Zn)-Dissolved	0.0033		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Zirconium (Zr)-Dissolved	0.00946		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
CCME PAHs in mg/L							
1-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
2-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Acridine	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-2 MW22-02							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
CCME PAHs in mg/L							
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Chrysene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Dibenz(a,h)anthracene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluoranthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluorene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Naphthalene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Phenanthrene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Pyrene	0.000011		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Quinoline	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	16-NOV-22	17-NOV-22	R5893300
Surrogate: Naphthalene d8	98.1		50-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Phenanthrene d10	104.3		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Chrysene d12	92.8		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Acridine d9	90.8		60-130	%	16-NOV-22	17-NOV-22	R5893300
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	16-NOV-22	16-NOV-22	R5893096
F3 (C16-C34)	<0.25		0.25	mg/L	16-NOV-22	16-NOV-22	R5893096
F4 (C34-C50)	<0.25		0.25	mg/L	16-NOV-22	16-NOV-22	R5893096
Surrogate: 2-Bromobenzotrifluoride	125.2		60-140	%	16-NOV-22	16-NOV-22	R5893096
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		17-NOV-22	
F2-Naphth	<0.10		0.10	mg/L		17-NOV-22	
F3-PAH	<0.25		0.25	mg/L		17-NOV-22	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		17-NOV-22	
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		15-NOV-22	R5893076
Benzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromochloromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromodichloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromoform	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
n-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
sec-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
tert-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Carbon disulfide	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
Carbon Tetrachloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroform	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
2-Chlorotoluene	<0.020		0.020	mg/L		15-NOV-22	R5893076
4-Chlorotoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromochloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dibromoethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-2 MW22-02							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
VOC plus F1 by GCMS							
Dibromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1-dichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
1,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Ethylbenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
F1	<0.10		0.10	mg/L		15-NOV-22	R5893076
Hexachlorobutadiene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Hexane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		15-NOV-22	R5893076
Isopropylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
4-Isopropyltoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
MEK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MIBK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MTBE	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Styrene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Tetrachloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Toluene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichlorofluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,3-Trichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3,5-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Vinyl Chloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
M+P-Xylenes	<0.00040		0.00040	mg/L		15-NOV-22	R5893076
o-Xylene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Surrogate: 4-Bromofluorobenzene (SS)	83.0		70-130	%		15-NOV-22	R5893076
Surrogate: 1,4-Difluorobenzene (SS)	86.4		70-130	%		15-NOV-22	R5893076
Surrogate: 3,4-Dichlorotoluene (SS)	87.4		70-130	%		15-NOV-22	R5893076
L2739914-3 MW22-03							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-3 MW22-03							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	FIELD					14-NOV-22	R5891323
Aluminum (Al)-Dissolved	0.0032		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Antimony (Sb)-Dissolved	0.00042		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Arsenic (As)-Dissolved	0.00313		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Barium (Ba)-Dissolved	0.0758		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Boron (B)-Dissolved	0.604		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cadmium (Cd)-Dissolved	0.000113		0.0000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Calcium (Ca)-Dissolved	379		0.50	mg/L	14-NOV-22	16-NOV-22	R5894360
Cesium (Cs)-Dissolved	0.000011		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Chromium (Cr)-Dissolved	0.00256		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cobalt (Co)-Dissolved	0.00053		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Copper (Cu)-Dissolved	0.00961		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Lead (Pb)-Dissolved	0.000131		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Lithium (Li)-Dissolved	1.21		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Magnesium (Mg)-Dissolved	786		0.050	mg/L	14-NOV-22	16-NOV-22	R5894360
Manganese (Mn)-Dissolved	0.149		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Molybdenum (Mo)-Dissolved	0.0312		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Nickel (Ni)-Dissolved	0.0151		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Phosphorus (P)-Dissolved	0.281		0.030	mg/L	14-NOV-22	14-NOV-22	R5892156
Potassium (K)-Dissolved	8.98		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Rubidium (Rb)-Dissolved	0.00302		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Selenium (Se)-Dissolved	0.000802		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silicon (Si)-Dissolved	13.7		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silver (Ag)-Dissolved	0.000054		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sodium (Na)-Dissolved	883		0.50	mg/L	14-NOV-22	16-NOV-22	R5894360
Strontium (Sr)-Dissolved	2.88		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sulfur (S)-Dissolved	1140		5.0	mg/L	14-NOV-22	16-NOV-22	R5894360
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Thallium (Tl)-Dissolved	0.000037		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Tin (Sn)-Dissolved	0.00104		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Titanium (Ti)-Dissolved	0.00097		0.00030	mg/L	14-NOV-22	14-NOV-22	R5892156
Tungsten (W)-Dissolved	0.00020		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Uranium (U)-Dissolved	0.365		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Vanadium (V)-Dissolved	0.00322		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Zinc (Zn)-Dissolved	0.0062		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Zirconium (Zr)-Dissolved	0.0143		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
CCME PAHs in mg/L							
1-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
2-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Acridine	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-3 MW22-03							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
CCME PAHs in mg/L							
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Chrysene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Dibenz(a,h)anthracene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluoranthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluorene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Naphthalene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Phenanthrene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Quinoline	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	16-NOV-22	17-NOV-22	R5893300
Surrogate: Naphthalene d8	95.2		50-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Phenanthrene d10	100.9		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Chrysene d12	87.1		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Acridine d9	85.9		60-130	%	16-NOV-22	17-NOV-22	R5893300
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	16-NOV-22	16-NOV-22	R5893096
F3 (C16-C34)	<0.25		0.25	mg/L	16-NOV-22	16-NOV-22	R5893096
F4 (C34-C50)	<0.25		0.25	mg/L	16-NOV-22	16-NOV-22	R5893096
Surrogate: 2-Bromobenzotrifluoride	125.4		60-140	%	16-NOV-22	16-NOV-22	R5893096
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		17-NOV-22	
F2-Naphth	<0.10		0.10	mg/L		17-NOV-22	
F3-PAH	<0.25		0.25	mg/L		17-NOV-22	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		17-NOV-22	
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		15-NOV-22	R5893076
Benzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromochloromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromodichloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromoform	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
n-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
sec-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
tert-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Carbon disulfide	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
Carbon Tetrachloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroform	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
2-Chlorotoluene	<0.020		0.020	mg/L		15-NOV-22	R5893076
4-Chlorotoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromochloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dibromoethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-3 MW22-03							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
VOC plus F1 by GCMS							
Dibromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1-dichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
1,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Ethylbenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
F1	<0.10		0.10	mg/L		15-NOV-22	R5893076
Hexachlorobutadiene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Hexane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		15-NOV-22	R5893076
Isopropylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
4-Isopropyltoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
MEK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MIBK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MTBE	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Styrene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Tetrachloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Toluene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichlorofluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,3-Trichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3,5-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Vinyl Chloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
M+P-Xylenes	<0.00040		0.00040	mg/L		15-NOV-22	R5893076
o-Xylene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Surrogate: 4-Bromofluorobenzene (SS)	83.6		70-130	%		15-NOV-22	R5893076
Surrogate: 1,4-Difluorobenzene (SS)	86.7		70-130	%		15-NOV-22	R5893076
Surrogate: 3,4-Dichlorotoluene (SS)	78.9		70-130	%		15-NOV-22	R5893076
L2739914-4 MW22-04							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-4 MW22-04							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	FIELD					14-NOV-22	R5891323
Aluminum (Al)-Dissolved	0.334		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Antimony (Sb)-Dissolved	0.00076		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Arsenic (As)-Dissolved	0.00399		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Barium (Ba)-Dissolved	0.0318		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Boron (B)-Dissolved	0.286		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cadmium (Cd)-Dissolved	0.000130		0.0000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Calcium (Ca)-Dissolved	584		0.50	mg/L	14-NOV-22	16-NOV-22	R5894360
Cesium (Cs)-Dissolved	0.000026		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Chromium (Cr)-Dissolved	0.00852		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cobalt (Co)-Dissolved	0.00780		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Copper (Cu)-Dissolved	0.00678		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Iron (Fe)-Dissolved	2.25		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Lead (Pb)-Dissolved	0.00914		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Lithium (Li)-Dissolved	0.324		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Magnesium (Mg)-Dissolved	572		0.050	mg/L	14-NOV-22	16-NOV-22	R5894360
Manganese (Mn)-Dissolved	4.12		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Molybdenum (Mo)-Dissolved	0.00508		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Nickel (Ni)-Dissolved	0.0404		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Phosphorus (P)-Dissolved	0.613		0.030	mg/L	14-NOV-22	14-NOV-22	R5892156
Potassium (K)-Dissolved	6.67		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Rubidium (Rb)-Dissolved	0.00246		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Selenium (Se)-Dissolved	0.000496		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silicon (Si)-Dissolved	10.8		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silver (Ag)-Dissolved	0.000073		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sodium (Na)-Dissolved	340		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Strontium (Sr)-Dissolved	2.73		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sulfur (S)-Dissolved	872		5.0	mg/L	14-NOV-22	16-NOV-22	R5894360
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Thorium (Th)-Dissolved	0.00017		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Tin (Sn)-Dissolved	0.00055		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Titanium (Ti)-Dissolved	0.00989		0.00030	mg/L	14-NOV-22	14-NOV-22	R5892156
Tungsten (W)-Dissolved	0.00093		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Uranium (U)-Dissolved	0.0406		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Vanadium (V)-Dissolved	0.00310		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Zinc (Zn)-Dissolved	0.0233		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Zirconium (Zr)-Dissolved	0.00501		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
CCME PAHs in mg/L							
1-Methylnaphthalene	0.000052		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
2-Methylnaphthalene	0.000090		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Acridine	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)pyrene	0.0000214		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(b&j)fluoranthene	0.000021		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(g,h,i)perylene	0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-4 MW22-04							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
CCME PAHs in mg/L							
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Chrysene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Dibenz(a,h)anthracene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluoranthene	0.000025		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluorene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Indeno(1,2,3-cd)pyrene	0.000016		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Naphthalene	0.000088		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Phenanthrene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Pyrene	0.000052		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Quinoline	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	16-NOV-22	17-NOV-22	R5893300
Surrogate: Naphthalene d8	87.6		50-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Phenanthrene d10	96.5		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Chrysene d12	72.9		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Acridine d9	83.9		60-130	%	16-NOV-22	17-NOV-22	R5893300
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	0.16		0.10	mg/L	16-NOV-22	16-NOV-22	R5893096
F3 (C16-C34)	1.52		0.25	mg/L	16-NOV-22	16-NOV-22	R5893096
F4 (C34-C50)	0.46		0.25	mg/L	16-NOV-22	16-NOV-22	R5893096
Surrogate: 2-Bromobenzotrifluoride	125.7		60-140	%	16-NOV-22	16-NOV-22	R5893096
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		17-NOV-22	
F2-Naphth	0.16		0.10	mg/L		17-NOV-22	
F3-PAH	1.52		0.25	mg/L		17-NOV-22	
Total Hydrocarbons (C6-C50)	2.14		0.38	mg/L		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		17-NOV-22	
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		15-NOV-22	R5893076
Benzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromochloromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromodichloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromoform	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
n-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
sec-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
tert-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Carbon disulfide	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
Carbon Tetrachloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroform	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
2-Chlorotoluene	<0.020		0.020	mg/L		15-NOV-22	R5893076
4-Chlorotoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromochloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dibromoethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-4 MW22-04							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
VOC plus F1 by GCMS							
Dibromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1-dichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
1,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Ethylbenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
F1	<0.10		0.10	mg/L		15-NOV-22	R5893076
Hexachlorobutadiene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Hexane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		15-NOV-22	R5893076
Isopropylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
4-Isopropyltoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
MEK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MIBK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MTBE	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Styrene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Tetrachloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Toluene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichlorofluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,3-Trichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3,5-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Vinyl Chloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
M+P-Xylenes	<0.00040		0.00040	mg/L		15-NOV-22	R5893076
o-Xylene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Surrogate: 4-Bromofluorobenzene (SS)	84.9		70-130	%		15-NOV-22	R5893076
Surrogate: 1,4-Difluorobenzene (SS)	85.0		70-130	%		15-NOV-22	R5893076
Surrogate: 3,4-Dichlorotoluene (SS)	71.1		70-130	%		15-NOV-22	R5893076
L2739914-5 MW22-05							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-5 MW22-05							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	FIELD					14-NOV-22	R5891323
Aluminum (Al)-Dissolved	0.0018		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Antimony (Sb)-Dissolved	0.00011		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Arsenic (As)-Dissolved	0.00077		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Barium (Ba)-Dissolved	0.0548		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Boron (B)-Dissolved	0.178		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cadmium (Cd)-Dissolved	0.000116		0.0000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Calcium (Ca)-Dissolved	280		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Chromium (Cr)-Dissolved	0.00021		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cobalt (Co)-Dissolved	0.00058		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Copper (Cu)-Dissolved	0.00257		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Lithium (Li)-Dissolved	0.213		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Magnesium (Mg)-Dissolved	252		0.050	mg/L	14-NOV-22	16-NOV-22	R5894360
Manganese (Mn)-Dissolved	0.367		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Molybdenum (Mo)-Dissolved	0.00609		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Nickel (Ni)-Dissolved	0.00996		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	14-NOV-22	14-NOV-22	R5892156
Potassium (K)-Dissolved	6.21		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Rubidium (Rb)-Dissolved	0.00136		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Selenium (Se)-Dissolved	0.000081		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silicon (Si)-Dissolved	12.2		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sodium (Na)-Dissolved	139		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Strontium (Sr)-Dissolved	1.32		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sulfur (S)-Dissolved	246		0.50	mg/L	14-NOV-22	14-NOV-22	R5892156
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Thallium (Tl)-Dissolved	0.000015		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Tin (Sn)-Dissolved	0.00044		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	14-NOV-22	14-NOV-22	R5892156
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Uranium (U)-Dissolved	0.0162		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Vanadium (V)-Dissolved	0.00104		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Zinc (Zn)-Dissolved	0.0026		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Zirconium (Zr)-Dissolved	0.00140		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
CCME PAHs in mg/L							
1-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
2-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Acridine	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-5 MW22-05							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
CCME PAHs in mg/L							
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Chrysene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Dibenz(a,h)anthracene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluoranthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluorene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Naphthalene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Phenanthrene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Quinoline	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	16-NOV-22	17-NOV-22	R5893300
Surrogate: Naphthalene d8	90.0		50-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Phenanthrene d10	100.8		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Chrysene d12	91.3		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Acridine d9	87.1		60-130	%	16-NOV-22	17-NOV-22	R5893300
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	16-NOV-22	16-NOV-22	R5893096
F3 (C16-C34)	<0.25		0.25	mg/L	16-NOV-22	16-NOV-22	R5893096
F4 (C34-C50)	<0.25		0.25	mg/L	16-NOV-22	16-NOV-22	R5893096
Surrogate: 2-Bromobenzotrifluoride	125.2		60-140	%	16-NOV-22	16-NOV-22	R5893096
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		17-NOV-22	
F2-Naphth	<0.10		0.10	mg/L		17-NOV-22	
F3-PAH	<0.25		0.25	mg/L		17-NOV-22	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		17-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		17-NOV-22	
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		15-NOV-22	R5893076
Benzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromochloromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromodichloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromoform	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
n-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
sec-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
tert-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Carbon disulfide	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
Carbon Tetrachloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroform	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
2-Chlorotoluene	<0.020		0.020	mg/L		15-NOV-22	R5893076
4-Chlorotoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromochloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dibromoethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-5 MW22-05							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
VOC plus F1 by GCMS							
Dibromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1-dichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
1,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Ethylbenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
F1	<0.10		0.10	mg/L		15-NOV-22	R5893076
Hexachlorobutadiene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Hexane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		15-NOV-22	R5893076
Isopropylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
4-Isopropyltoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
MEK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MIBK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MTBE	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Styrene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Tetrachloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Toluene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichlorofluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,3-Trichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3,5-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Vinyl Chloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
M+P-Xylenes	<0.00040		0.00040	mg/L		15-NOV-22	R5893076
o-Xylene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Surrogate: 4-Bromofluorobenzene (SS)	86.8		70-130	%		15-NOV-22	R5893076
Surrogate: 1,4-Difluorobenzene (SS)	86.0		70-130	%		15-NOV-22	R5893076
Surrogate: 3,4-Dichlorotoluene (SS)	80.6		70-130	%		15-NOV-22	R5893076
L2739914-6 MW22-10							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-6 MW22-10							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	FIELD					14-NOV-22	R5891323
Aluminum (Al)-Dissolved	0.0771		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Antimony (Sb)-Dissolved	0.00077		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Arsenic (As)-Dissolved	0.00393		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Barium (Ba)-Dissolved	0.0282		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Boron (B)-Dissolved	0.299		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cadmium (Cd)-Dissolved	0.0000318		0.0000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Calcium (Ca)-Dissolved	593		0.50	mg/L	14-NOV-22	28-NOV-22	R5899336
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Chromium (Cr)-Dissolved	0.00230		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cobalt (Co)-Dissolved	0.00763		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Copper (Cu)-Dissolved	0.00363		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Iron (Fe)-Dissolved	2.00		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Lead (Pb)-Dissolved	0.00232		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Lithium (Li)-Dissolved	0.308		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Magnesium (Mg)-Dissolved	576		0.050	mg/L	14-NOV-22	28-NOV-22	R5899336
Manganese (Mn)-Dissolved	4.06		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Molybdenum (Mo)-Dissolved	0.00562		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Nickel (Ni)-Dissolved	0.0392		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Phosphorus (P)-Dissolved	0.531		0.030	mg/L	14-NOV-22	14-NOV-22	R5892156
Potassium (K)-Dissolved	6.61		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Rubidium (Rb)-Dissolved	0.00206		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Selenium (Se)-Dissolved	0.000594		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silicon (Si)-Dissolved	10.4		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silver (Ag)-Dissolved	0.000053		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sodium (Na)-Dissolved	343		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Strontium (Sr)-Dissolved	2.62		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sulfur (S)-Dissolved	922		5.0	mg/L	14-NOV-22	28-NOV-22	R5899336
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Tin (Sn)-Dissolved	0.00032		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Titanium (Ti)-Dissolved	0.00275		0.00030	mg/L	14-NOV-22	14-NOV-22	R5892156
Tungsten (W)-Dissolved	0.00107		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Uranium (U)-Dissolved	0.0401		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Vanadium (V)-Dissolved	0.00237		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Zinc (Zn)-Dissolved	0.0101		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Zirconium (Zr)-Dissolved	0.00443		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
CCME PAHs in mg/L							
1-Methylnaphthalene	0.000050		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
2-Methylnaphthalene	0.000086		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Anthracene	0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Acridine	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)anthracene	0.000011		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)pyrene	0.0000185		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(b&j)fluoranthene	0.000017		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-6 MW22-10							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
CCME PAHs in mg/L							
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Chrysene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Dibenz(a,h)anthracene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluoranthene	0.000025		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluorene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Indeno(1,2,3-cd)pyrene	0.000012		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Naphthalene	0.000085		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Phenanthrene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Pyrene	0.000048		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Quinoline	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	16-NOV-22	17-NOV-22	R5893300
Surrogate: Naphthalene d8	91.4		50-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Phenanthrene d10	100.1		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Chrysene d12	78.5		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Acridine d9	89.9		60-130	%	16-NOV-22	17-NOV-22	R5893300
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	0.13		0.10	mg/L	17-NOV-22	17-NOV-22	R5893096
F3 (C16-C34)	1.03		0.25	mg/L	17-NOV-22	17-NOV-22	R5893096
F4 (C34-C50)	0.28		0.25	mg/L	17-NOV-22	17-NOV-22	R5893096
Surrogate: 2-Bromobenzotrifluoride	96.2		60-140	%	17-NOV-22	17-NOV-22	R5893096
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		18-NOV-22	
F2-Naphth	0.13		0.10	mg/L		18-NOV-22	
F3-PAH	1.03		0.25	mg/L		18-NOV-22	
Total Hydrocarbons (C6-C50)	1.43		0.38	mg/L		18-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		17-NOV-22	
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		15-NOV-22	R5893076
Benzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromochloromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromodichloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromoform	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
n-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
sec-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
tert-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Carbon disulfide	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
Carbon Tetrachloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroform	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
2-Chlorotoluene	<0.020		0.020	mg/L		15-NOV-22	R5893076
4-Chlorotoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromochloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dibromoethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-6 MW22-10							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
VOC plus F1 by GCMS							
Dibromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1-dichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
1,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Ethylbenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
F1	<0.10		0.10	mg/L		15-NOV-22	R5893076
Hexachlorobutadiene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Hexane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		15-NOV-22	R5893076
Isopropylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
4-Isopropyltoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
MEK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MIBK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MTBE	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Styrene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Tetrachloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Toluene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichlorofluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,3-Trichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3,5-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Vinyl Chloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
M+P-Xylenes	<0.00040		0.00040	mg/L		15-NOV-22	R5893076
o-Xylene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Surrogate: 4-Bromofluorobenzene (SS)	92.3		70-130	%		15-NOV-22	R5893076
Surrogate: 1,4-Difluorobenzene (SS)	85.2		70-130	%		15-NOV-22	R5893076
Surrogate: 3,4-Dichlorotoluene (SS)	80.3		70-130	%		15-NOV-22	R5893076
L2739914-7 17-03							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-7 17-03							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	FIELD					14-NOV-22	R5891323
Aluminum (Al)-Dissolved	0.0213		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Arsenic (As)-Dissolved	0.00083		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Barium (Ba)-Dissolved	0.0189		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Boron (B)-Dissolved	0.370		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Calcium (Ca)-Dissolved	86.0		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cobalt (Co)-Dissolved	0.00017		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Iron (Fe)-Dissolved	0.429		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Lithium (Li)-Dissolved	0.0798		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Magnesium (Mg)-Dissolved	71.0		0.0050	mg/L	14-NOV-22	14-NOV-22	R5892156
Manganese (Mn)-Dissolved	0.0187		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Molybdenum (Mo)-Dissolved	0.000581		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Nickel (Ni)-Dissolved	0.00070		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	14-NOV-22	14-NOV-22	R5892156
Potassium (K)-Dissolved	12.0		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Rubidium (Rb)-Dissolved	0.00469		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silicon (Si)-Dissolved	5.89		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sodium (Na)-Dissolved	166		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Strontium (Sr)-Dissolved	0.687		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sulfur (S)-Dissolved	64.9		0.50	mg/L	14-NOV-22	14-NOV-22	R5892156
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Titanium (Ti)-Dissolved	0.00069		0.00030	mg/L	14-NOV-22	14-NOV-22	R5892156
Tungsten (W)-Dissolved	0.00325		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Uranium (U)-Dissolved	0.00115		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Zinc (Zn)-Dissolved	0.0011		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
CCME PAHs in mg/L							
1-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
2-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Acridine	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-7 17-03							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
CCME PAHs in mg/L							
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Chrysene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Dibenz(a,h)anthracene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluoranthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluorene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Naphthalene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Phenanthrene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Quinoline	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	16-NOV-22	17-NOV-22	R5893300
Surrogate: Naphthalene d8	89.8		50-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Phenanthrene d10	100.3		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Chrysene d12	85.5		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Acridine d9	85.4		60-130	%	16-NOV-22	17-NOV-22	R5893300
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	17-NOV-22	17-NOV-22	R5893096
F3 (C16-C34)	<0.25		0.25	mg/L	17-NOV-22	17-NOV-22	R5893096
F4 (C34-C50)	<0.25		0.25	mg/L	17-NOV-22	17-NOV-22	R5893096
Surrogate: 2-Bromobenzotrifluoride	95.4		60-140	%	17-NOV-22	17-NOV-22	R5893096
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		18-NOV-22	
F2-Naphth	<0.10		0.10	mg/L		18-NOV-22	
F3-PAH	<0.25		0.25	mg/L		18-NOV-22	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		18-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		17-NOV-22	
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		15-NOV-22	R5893076
Benzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromochloromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromodichloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromoform	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
n-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
sec-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
tert-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Carbon disulfide	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
Carbon Tetrachloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroform	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
2-Chlorotoluene	<0.020		0.020	mg/L		15-NOV-22	R5893076
4-Chlorotoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromochloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dibromoethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-7 17-03							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
VOC plus F1 by GCMS							
Dibromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1-dichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
1,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Ethylbenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
F1	<0.10		0.10	mg/L		15-NOV-22	R5893076
Hexachlorobutadiene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Hexane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		15-NOV-22	R5893076
Isopropylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
4-Isopropyltoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
MEK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MIBK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MTBE	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Styrene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Tetrachloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Toluene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichlorofluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,3-Trichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3,5-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Vinyl Chloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
M+P-Xylenes	<0.00040		0.00040	mg/L		15-NOV-22	R5893076
o-Xylene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Surrogate: 4-Bromofluorobenzene (SS)	88.2		70-130	%		15-NOV-22	R5893076
Surrogate: 1,4-Difluorobenzene (SS)	86.4		70-130	%		15-NOV-22	R5893076
Surrogate: 3,4-Dichlorotoluene (SS)	87.0		70-130	%		15-NOV-22	R5893076
L2739914-8 18-04							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-8 18-04							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	FIELD					14-NOV-22	R5891323
Aluminum (Al)-Dissolved	0.0170		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Antimony (Sb)-Dissolved	0.00026		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Arsenic (As)-Dissolved	0.00109		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Barium (Ba)-Dissolved	0.0402		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Boron (B)-Dissolved	0.160		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cadmium (Cd)-Dissolved	0.000138		0.0000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Calcium (Ca)-Dissolved	417		0.50	mg/L	14-NOV-22	28-NOV-22	R5899336
Cesium (Cs)-Dissolved	0.000012		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Chromium (Cr)-Dissolved	0.00024		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cobalt (Co)-Dissolved	0.00136		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Copper (Cu)-Dissolved	0.00246		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Iron (Fe)-Dissolved	0.136		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Lead (Pb)-Dissolved	0.000160		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Lithium (Li)-Dissolved	0.334		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Magnesium (Mg)-Dissolved	348		0.050	mg/L	14-NOV-22	28-NOV-22	R5899336
Manganese (Mn)-Dissolved	1.55		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Molybdenum (Mo)-Dissolved	0.00542		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Nickel (Ni)-Dissolved	0.0290		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Phosphorus (P)-Dissolved	0.036		0.030	mg/L	14-NOV-22	14-NOV-22	R5892156
Potassium (K)-Dissolved	7.87		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Rubidium (Rb)-Dissolved	0.00148		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Selenium (Se)-Dissolved	0.00278		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silicon (Si)-Dissolved	10.8		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sodium (Na)-Dissolved	300		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Strontium (Sr)-Dissolved	2.06		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sulfur (S)-Dissolved	632		5.0	mg/L	14-NOV-22	28-NOV-22	R5899336
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Thallium (Tl)-Dissolved	0.000013		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Tin (Sn)-Dissolved	0.00012		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Titanium (Ti)-Dissolved	0.00058		0.00030	mg/L	14-NOV-22	14-NOV-22	R5892156
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Uranium (U)-Dissolved	0.0618		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Vanadium (V)-Dissolved	0.00150		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Zinc (Zn)-Dissolved	0.170		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Zirconium (Zr)-Dissolved	0.00141		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	17-NOV-22	17-NOV-22	R5893096
F3 (C16-C34)	<0.25		0.25	mg/L	17-NOV-22	17-NOV-22	R5893096
F4 (C34-C50)	<0.25		0.25	mg/L	17-NOV-22	17-NOV-22	R5893096
Surrogate: 2-Bromobenzotrifluoride	94.9		60-140	%	17-NOV-22	17-NOV-22	R5893096
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		23-NOV-22	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		23-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		17-NOV-22	
Total Trihalomethanes (THMs)							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-8 18-04							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		15-NOV-22	R5893076
Benzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromochloromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromodichloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromoform	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
n-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
sec-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
tert-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Carbon disulfide	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
Carbon Tetrachloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroform	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
2-Chlorotoluene	<0.020		0.020	mg/L		15-NOV-22	R5893076
4-Chlorotoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromochloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dibromoethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1-dichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
1,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Ethylbenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
F1	<0.10		0.10	mg/L		15-NOV-22	R5893076
Hexachlorobutadiene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Hexane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		15-NOV-22	R5893076
Isopropylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
4-Isopropyltoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
MEK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MIBK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MTBE	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Styrene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-8 18-04							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
VOC plus F1 by GCMS							
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Tetrachloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Toluene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichlorofluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,3-Trichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3,5-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Vinyl Chloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
M+P-Xylenes	<0.00040		0.00040	mg/L		15-NOV-22	R5893076
o-Xylene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Surrogate: 4-Bromofluorobenzene (SS)	85.9		70-130	%		15-NOV-22	R5893076
Surrogate: 1,4-Difluorobenzene (SS)	85.3		70-130	%		15-NOV-22	R5893076
Surrogate: 3,4-Dichlorotoluene (SS)	80.4		70-130	%		15-NOV-22	R5893076
L2739914-9 TRIP BLANK							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	FIELD					14-NOV-22	R5891323
Aluminum (Al)-Dissolved	<0.0010		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Barium (Ba)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Boron (B)-Dissolved	<0.010		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Magnesium (Mg)-Dissolved	<0.0050		0.0050	mg/L	14-NOV-22	14-NOV-22	R5892156
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Molybdenum (Mo)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	14-NOV-22	14-NOV-22	R5892156
Potassium (K)-Dissolved	<0.050		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-9 TRIP BLANK							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Sodium (Na)-Dissolved	<0.050		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	14-NOV-22	14-NOV-22	R5892156
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	14-NOV-22	14-NOV-22	R5892156
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
CCME PAHs in mg/L							
1-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
2-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Acridine	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Chrysene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Dibenz(a,h)anthracene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluoranthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluorene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Naphthalene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Phenanthrene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Quinoline	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	16-NOV-22	17-NOV-22	R5893300
Surrogate: Naphthalene d8	92.5		50-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Phenanthrene d10	98.0		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Chrysene d12	95.9		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Acridine d9	88.2		60-130	%	16-NOV-22	17-NOV-22	R5893300
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	17-NOV-22	17-NOV-22	R5893096
F3 (C16-C34)	<0.25		0.25	mg/L	17-NOV-22	17-NOV-22	R5893096
F4 (C34-C50)	<0.25		0.25	mg/L	17-NOV-22	17-NOV-22	R5893096
Surrogate: 2-Bromobenzotrifluoride	94.7		60-140	%	17-NOV-22	17-NOV-22	R5893096
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		18-NOV-22	
F2-Naphth	<0.10		0.10	mg/L		18-NOV-22	
F3-PAH	<0.25		0.25	mg/L		18-NOV-22	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		18-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		17-NOV-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-9 TRIP BLANK							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		15-NOV-22	R5893076
Benzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromochloromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromodichloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromoform	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
n-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
sec-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
tert-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Carbon disulfide	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
Carbon Tetrachloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroform	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
2-Chlorotoluene	<0.020		0.020	mg/L		15-NOV-22	R5893076
4-Chlorotoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromochloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dibromoethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1-dichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
1,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Ethylbenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
F1	<0.10		0.10	mg/L		15-NOV-22	R5893076
Hexachlorobutadiene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Hexane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		15-NOV-22	R5893076
Isopropylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
4-Isopropyltoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
MEK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MIBK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MTBE	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Styrene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-9 TRIP BLANK							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
VOC plus F1 by GCMS							
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Tetrachloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Toluene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichlorofluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,3-Trichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3,5-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Vinyl Chloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
M+P-Xylenes	<0.00040		0.00040	mg/L		15-NOV-22	R5893076
o-Xylene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Surrogate: 4-Bromofluorobenzene (SS)	80.9		70-130	%		15-NOV-22	R5893076
Surrogate: 1,4-Difluorobenzene (SS)	84.3		70-130	%		15-NOV-22	R5893076
Surrogate: 3,4-Dichlorotoluene (SS)	83.9		70-130	%		15-NOV-22	R5893076
L2739914-10 FIELD BLANK							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Dissolved Metals Filtration Location	FIELD					14-NOV-22	R5891323
Aluminum (Al)-Dissolved	<0.0010		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Antimony (Sb)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Arsenic (As)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Barium (Ba)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Beryllium (Be)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Bismuth (Bi)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Boron (B)-Dissolved	<0.010		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cadmium (Cd)-Dissolved	<0.0000050		0.0000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Calcium (Ca)-Dissolved	<0.050		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Cesium (Cs)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Chromium (Cr)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Cobalt (Co)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Copper (Cu)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Iron (Fe)-Dissolved	<0.010		0.010	mg/L	14-NOV-22	14-NOV-22	R5892156
Lead (Pb)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Lithium (Li)-Dissolved	<0.0010		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Magnesium (Mg)-Dissolved	<0.0050		0.0050	mg/L	14-NOV-22	14-NOV-22	R5892156
Manganese (Mn)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Molybdenum (Mo)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Nickel (Ni)-Dissolved	<0.00050		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Phosphorus (P)-Dissolved	<0.030		0.030	mg/L	14-NOV-22	14-NOV-22	R5892156
Potassium (K)-Dissolved	<0.050		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Rubidium (Rb)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Selenium (Se)-Dissolved	<0.000050		0.000050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silicon (Si)-Dissolved	<0.050		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Silver (Ag)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-10 FIELD BLANK							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Dissolved Metals in Water by CRC ICPMS							
Sodium (Na)-Dissolved	<0.050		0.050	mg/L	14-NOV-22	14-NOV-22	R5892156
Strontium (Sr)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Sulfur (S)-Dissolved	<0.50		0.50	mg/L	14-NOV-22	14-NOV-22	R5892156
Tellurium (Te)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
Thallium (Tl)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Thorium (Th)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Tin (Sn)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Titanium (Ti)-Dissolved	<0.00030		0.00030	mg/L	14-NOV-22	14-NOV-22	R5892156
Tungsten (W)-Dissolved	<0.00010		0.00010	mg/L	14-NOV-22	14-NOV-22	R5892156
Uranium (U)-Dissolved	<0.000010		0.000010	mg/L	14-NOV-22	14-NOV-22	R5892156
Vanadium (V)-Dissolved	<0.00050		0.00050	mg/L	14-NOV-22	14-NOV-22	R5892156
Zinc (Zn)-Dissolved	<0.0010		0.0010	mg/L	14-NOV-22	14-NOV-22	R5892156
Zirconium (Zr)-Dissolved	<0.00020		0.00020	mg/L	14-NOV-22	14-NOV-22	R5892156
CCME PAHs in mg/L							
1-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
2-Methylnaphthalene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Acenaphthylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Acridine	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)anthracene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(a)pyrene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(b&j)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(g,h,i)perylene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Benzo(k)fluoranthene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Chrysene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Dibenz(a,h)anthracene	<0.0000050		0.0000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluoranthene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Fluorene	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
Indeno(1,2,3-cd)pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Naphthalene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Phenanthrene	<0.000050		0.000050	mg/L	16-NOV-22	17-NOV-22	R5893300
Pyrene	<0.000010		0.000010	mg/L	16-NOV-22	17-NOV-22	R5893300
Quinoline	<0.000020		0.000020	mg/L	16-NOV-22	17-NOV-22	R5893300
B(a)P Total Potency Equivalent	<0.000030		0.000030	mg/L	16-NOV-22	17-NOV-22	R5893300
Surrogate: Naphthalene d8	94.3		50-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Phenanthrene d10	98.8		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Chrysene d12	97.0		60-130	%	16-NOV-22	17-NOV-22	R5893300
Surrogate: Acridine d9	86.8		60-130	%	16-NOV-22	17-NOV-22	R5893300
VOC plus F1 to F4							
CCME PHC F2-F4 in Water							
F2 (C10-C16)	<0.10		0.10	mg/L	17-NOV-22	17-NOV-22	R5893096
F3 (C16-C34)	<0.25		0.25	mg/L	17-NOV-22	17-NOV-22	R5893096
F4 (C34-C50)	<0.25		0.25	mg/L	17-NOV-22	17-NOV-22	R5893096
Surrogate: 2-Bromobenzotrifluoride	95.2		60-140	%	17-NOV-22	17-NOV-22	R5893096
CCME Total Hydrocarbons							
F1-BTEX	<0.10		0.10	mg/L		18-NOV-22	
F2-Naphth	<0.10		0.10	mg/L		18-NOV-22	
F3-PAH	<0.25		0.25	mg/L		18-NOV-22	
Total Hydrocarbons (C6-C50)	<0.38		0.38	mg/L		18-NOV-22	
Sum of Xylene Isomer Concentrations							
Xylenes (Total)	<0.00064		0.00064	mg/L		17-NOV-22	

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-10 FIELD BLANK							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
Total Trihalomethanes (THMs)							
Total THMs	<0.0013		0.0013	mg/L		17-NOV-22	
VOC plus F1 by GCMS							
Acetone	<0.050		0.050	mg/L		15-NOV-22	R5893076
Benzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromochloromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromodichloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Bromoform	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Bromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
n-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
sec-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
tert-Butylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Carbon disulfide	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
Carbon Tetrachloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Chloroform	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Chloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
2-Chlorotoluene	<0.020		0.020	mg/L		15-NOV-22	R5893076
4-Chlorotoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromochloromethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dibromo-3-chloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dibromoethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dibromomethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2-Dichlorobenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,3-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,4-Dichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichlorodifluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2-Dichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1-dichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
cis-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,2-Dichloroethene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Dichloromethane	<0.0050		0.0050	mg/L		15-NOV-22	R5893076
1,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2,2-Dichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
cis-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
trans-1,3-Dichloropropene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Ethylbenzene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
F1	<0.10		0.10	mg/L		15-NOV-22	R5893076
Hexachlorobutadiene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Hexane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
2-Hexanone (Methyl butyl ketone)	<0.020		0.020	mg/L		15-NOV-22	R5893076
Isopropylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
4-Isopropyltoluene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
MEK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MIBK	<0.020		0.020	mg/L		15-NOV-22	R5893076
MTBE	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Styrene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2739914-10 FIELD BLANK							
Sampled By: CLIENT on 09-NOV-22							
Matrix: WATER							
VOC plus F1 by GCMS							
1,1,1,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2,2-Tetrachloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Tetrachloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Toluene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,2,3-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trichlorobenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,1,1-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
1,1,2-Trichloroethane	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichloroethene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Trichlorofluoromethane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,3-Trichloropropane	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,2,4-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
1,3,5-Trimethylbenzene	<0.0010		0.0010	mg/L		15-NOV-22	R5893076
Vinyl Chloride	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
M+P-Xylenes	<0.00040		0.00040	mg/L		15-NOV-22	R5893076
o-Xylene	<0.00050		0.00050	mg/L		15-NOV-22	R5893076
Surrogate: 4-Bromofluorobenzene (SS)	77.3		70-130	%		15-NOV-22	R5893076
Surrogate: 1,4-Difluorobenzene (SS)	84.6		70-130	%		15-NOV-22	R5893076
Surrogate: 3,4-Dichlorotoluene (SS)	77.8		70-130	%		15-NOV-22	R5893076

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier Key:

Qualifier	Description
DLQ	Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
F1-F4-CALC-WP	Water	CCME Total Hydrocarbons	CCME CWS-PHC, Pub #1310, Dec 2001-L

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F2-F4-FID-WP	Water	CCME PHC F2-F4 in Water	EPA 3511

Petroleum hydrocarbons in water are determined by liquid-liquid micro-scale solvent extraction using a reciprocal shaker extraction apparatus prior to capillary column gas chromatography with flame ionization detection (GC-FID) analysis.

MET-D-CCMS-WP	Water	Dissolved Metals in Water by CRC ICPMS	APHA 3030B/6020B (mod)

Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by CRC ICPMS.

Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.

PAH-CCME-PPM-WT	Water	CCME PAHs in mg/L	EPA 3511/8270D (mod)

PAHs are extracted from water using a hexane micro-extraction technique, with analysis by GC/MS. Because the two isomers cannot be readily separated chromatographically, benzo(j)fluoranthene is reported as part of the benzo(b)fluoranthene parameter.

THM-SUM-CALC-WP	Water	Total Trihalomethanes (THMs)	CALCULATION

Total Trihalomethanes (THMs) represents the sum of bromodichloromethane, bromoform, chlorodibromomethane and chloroform. For the purpose of calculation, results less than the detection limit (DL) are treated as zero.

VOC+F1-HSMS-WP	Water	VOC plus F1 by GCMS	EPA 8260C / EPA 5021A

In this method samples are analyzed using a headspace autosampler interfaced to a dual column gas chromatograph with MS and Flame Ionization detectors.

XYLENES-SUM-CALC-WP	Water	Sum of Xylene Isomer Concentrations	CALCULATED RESULT

Total xylenes represents the sum of o-xylene and m&p-xylene.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
WP		ALS ENVIRONMENTAL - WINNIPEG, MANITOBA, CANADA	
WT		ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA	

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Client: AECOM Canada Ltd.
99 Commerce Drive
Winnipeg MB R3P 0Y7
Contact: JEN MURRAY

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-FID-WP	**Water**							
Batch R5893096								
WG3772751-2 LCS								
F2 (C10-C16)			105.2		%		70-130	16-NOV-22
F3 (C16-C34)			97.8		%		70-130	16-NOV-22
F4 (C34-C50)			102.8		%		70-130	16-NOV-22
WG3773073-2 LCS								
F2 (C10-C16)			87.4		%		70-130	17-NOV-22
F3 (C16-C34)			84.9		%		70-130	17-NOV-22
F4 (C34-C50)			89.2		%		70-130	17-NOV-22
WG3772751-1 MB								
F2 (C10-C16)			<0.10		mg/L		0.1	16-NOV-22
F3 (C16-C34)			<0.25		mg/L		0.25	16-NOV-22
F4 (C34-C50)			<0.25		mg/L		0.25	16-NOV-22
Surrogate: 2-Bromobenzotrifluoride			120.8		%		60-140	16-NOV-22
WG3773073-1 MB								
F2 (C10-C16)			<0.10		mg/L		0.1	17-NOV-22
F3 (C16-C34)			<0.25		mg/L		0.25	17-NOV-22
F4 (C34-C50)			<0.25		mg/L		0.25	17-NOV-22
Surrogate: 2-Bromobenzotrifluoride			90.6		%		60-140	17-NOV-22
MET-D-CCMS-WP	**Water**							
Batch R5892156								
WG3772519-2 LCS								
Aluminum (Al)-Dissolved			104.1		%		80-120	14-NOV-22
Antimony (Sb)-Dissolved			96.5		%		80-120	14-NOV-22
Arsenic (As)-Dissolved			98.9		%		80-120	14-NOV-22
Barium (Ba)-Dissolved			103.3		%		80-120	14-NOV-22
Beryllium (Be)-Dissolved			98.6		%		80-120	14-NOV-22
Bismuth (Bi)-Dissolved			96.9		%		80-120	14-NOV-22
Boron (B)-Dissolved			97.3		%		80-120	14-NOV-22
Cadmium (Cd)-Dissolved			100.1		%		80-120	14-NOV-22
Calcium (Ca)-Dissolved			99.2		%		80-120	14-NOV-22
Cesium (Cs)-Dissolved			95.7		%		80-120	14-NOV-22
Chromium (Cr)-Dissolved			96.9		%		80-120	14-NOV-22
Cobalt (Co)-Dissolved			97.7		%		80-120	14-NOV-22
Copper (Cu)-Dissolved			97.9		%		80-120	14-NOV-22
Iron (Fe)-Dissolved			94.2		%		80-120	14-NOV-22
Lead (Pb)-Dissolved			96.8		%		80-120	14-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WP	**Water**							
Batch R5892156								
WG3772519-2 LCS								
Lithium (Li)-Dissolved			102.1		%		80-120	14-NOV-22
Magnesium (Mg)-Dissolved			109.0		%		80-120	14-NOV-22
Manganese (Mn)-Dissolved			102.1		%		80-120	14-NOV-22
Molybdenum (Mo)-Dissolved			97.4		%		80-120	14-NOV-22
Nickel (Ni)-Dissolved			95.4		%		80-120	14-NOV-22
Phosphorus (P)-Dissolved			97.2		%		80-120	14-NOV-22
Potassium (K)-Dissolved			99.99		%		80-120	14-NOV-22
Rubidium (Rb)-Dissolved			101.0		%		80-120	14-NOV-22
Selenium (Se)-Dissolved			96.8		%		80-120	14-NOV-22
Silicon (Si)-Dissolved			103.7		%		80-120	14-NOV-22
Silver (Ag)-Dissolved			92.3		%		80-120	14-NOV-22
Sodium (Na)-Dissolved			99.4		%		80-120	14-NOV-22
Strontium (Sr)-Dissolved			97.8		%		80-120	14-NOV-22
Sulfur (S)-Dissolved			105.4		%		80-120	14-NOV-22
Tellurium (Te)-Dissolved			91.6		%		80-120	14-NOV-22
Thallium (Tl)-Dissolved			97.8		%		80-120	14-NOV-22
Thorium (Th)-Dissolved			89.7		%		80-120	14-NOV-22
Tin (Sn)-Dissolved			97.9		%		80-120	14-NOV-22
Titanium (Ti)-Dissolved			97.8		%		80-120	14-NOV-22
Tungsten (W)-Dissolved			97.8		%		80-120	14-NOV-22
Uranium (U)-Dissolved			93.3		%		80-120	14-NOV-22
Vanadium (V)-Dissolved			98.3		%		80-120	14-NOV-22
Zinc (Zn)-Dissolved			110.5		%		80-120	14-NOV-22
Zirconium (Zr)-Dissolved			86.2		%		80-120	14-NOV-22
WG3772519-1 MB								
Aluminum (Al)-Dissolved			<0.0010		mg/L		0.001	14-NOV-22
Antimony (Sb)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Arsenic (As)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Barium (Ba)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Beryllium (Be)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Bismuth (Bi)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-22
Boron (B)-Dissolved			<0.010		mg/L		0.01	14-NOV-22
Cadmium (Cd)-Dissolved			<0.000005(		mg/L		0.000005	14-NOV-22
Calcium (Ca)-Dissolved			<0.050		mg/L		0.05	14-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-D-CCMS-WP	**Water**							
Batch R5892156								
WG3772519-1 MB								
Cesium (Cs)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-22
Chromium (Cr)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Cobalt (Co)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Copper (Cu)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-22
Iron (Fe)-Dissolved			<0.010		mg/L		0.01	14-NOV-22
Lead (Pb)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-22
Lithium (Li)-Dissolved			<0.0010		mg/L		0.001	14-NOV-22
Magnesium (Mg)-Dissolved			<0.0050		mg/L		0.005	14-NOV-22
Manganese (Mn)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Molybdenum (Mo)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-22
Nickel (Ni)-Dissolved			<0.00050		mg/L		0.0005	14-NOV-22
Phosphorus (P)-Dissolved			<0.030		mg/L		0.03	14-NOV-22
Potassium (K)-Dissolved			<0.050		mg/L		0.05	14-NOV-22
Rubidium (Rb)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-22
Selenium (Se)-Dissolved			<0.000050		mg/L		0.00005	14-NOV-22
Silicon (Si)-Dissolved			<0.050		mg/L		0.05	14-NOV-22
Silver (Ag)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-22
Sodium (Na)-Dissolved			<0.050		mg/L		0.05	14-NOV-22
Strontium (Sr)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Sulfur (S)-Dissolved			<0.50		mg/L		0.5	14-NOV-22
Tellurium (Te)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-22
Thallium (Tl)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-22
Thorium (Th)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Tin (Sn)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Titanium (Ti)-Dissolved			<0.00030		mg/L		0.0003	14-NOV-22
Tungsten (W)-Dissolved			<0.00010		mg/L		0.0001	14-NOV-22
Uranium (U)-Dissolved			<0.000010		mg/L		0.00001	14-NOV-22
Vanadium (V)-Dissolved			<0.00050		mg/L		0.0005	14-NOV-22
Zinc (Zn)-Dissolved			<0.0010		mg/L		0.001	14-NOV-22
Zirconium (Zr)-Dissolved			<0.00020		mg/L		0.0002	14-NOV-22
PAH-CCME-PPM-WT	**Water**							

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-PPM-WT	**Water**							
Batch R5893300								
WG3772884-2 LCS								
1-Methylnaphthalene			99.9		%		60-130	17-NOV-22
2-Methylnaphthalene			98.5		%		60-130	17-NOV-22
Acenaphthene			98.8		%		60-130	17-NOV-22
Acenaphthylene			95.7		%		60-130	17-NOV-22
Anthracene			85.2		%		60-130	17-NOV-22
Acridine			96.3		%		60-130	17-NOV-22
Benzo(a)anthracene			101.7		%		60-130	17-NOV-22
Benzo(a)pyrene			95.1		%		60-130	17-NOV-22
Benzo(b&j)fluoranthene			90.8		%		60-130	17-NOV-22
Benzo(g,h,i)perylene			100.8		%		60-130	17-NOV-22
Benzo(k)fluoranthene			97.9		%		60-130	17-NOV-22
Chrysene			107.2		%		60-130	17-NOV-22
Dibenz(a,h)anthracene			102.8		%		60-130	17-NOV-22
Fluoranthene			107.8		%		60-130	17-NOV-22
Fluorene			101.9		%		60-130	17-NOV-22
Indeno(1,2,3-cd)pyrene			107.0		%		60-130	17-NOV-22
Naphthalene			97.9		%		50-130	17-NOV-22
Phenanthrene			101.5		%		60-130	17-NOV-22
Pyrene			105.5		%		60-130	17-NOV-22
Quinoline			113.9		%		60-130	17-NOV-22
WG3772884-1 MB								
1-Methylnaphthalene			<0.000020		mg/L		0.00002	17-NOV-22
2-Methylnaphthalene			<0.000020		mg/L		0.00002	17-NOV-22
Acenaphthene			<0.000020		mg/L		0.00002	17-NOV-22
Acenaphthylene			<0.000020		mg/L		0.00002	17-NOV-22
Anthracene			<0.000010		mg/L		0.00001	17-NOV-22
Acridine			<0.000020		mg/L		0.00002	17-NOV-22
Benzo(a)anthracene			<0.000010		mg/L		0.00001	17-NOV-22
Benzo(a)pyrene			<0.000005		mg/L		0.000005	17-NOV-22
Benzo(b&j)fluoranthene			<0.000010		mg/L		0.00001	17-NOV-22
Benzo(g,h,i)perylene			<0.000020		mg/L		0.00002	17-NOV-22
Benzo(k)fluoranthene			<0.000010		mg/L		0.00001	17-NOV-22
Chrysene			<0.000020		mg/L		0.00002	17-NOV-22
Dibenz(a,h)anthracene			<0.000005		mg/L		0.000005	17-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-CCME-PPM-WT	**Water**							
Batch R5893300								
WG3772884-1 MB								
Fluoranthene			<0.000020		mg/L		0.00002	17-NOV-22
Fluorene			<0.000020		mg/L		0.00002	17-NOV-22
Indeno(1,2,3-cd)pyrene			<0.000010		mg/L		0.00001	17-NOV-22
Naphthalene			<0.000050		mg/L		0.00005	17-NOV-22
Phenanthrene			<0.000050		mg/L		0.00005	17-NOV-22
Pyrene			<0.000010		mg/L		0.00001	17-NOV-22
Quinoline			<0.000020		mg/L		0.00002	17-NOV-22
Surrogate: Naphthalene d8			94.7		%		50-130	17-NOV-22
Surrogate: Phenanthrene d10			98.7		%		60-130	17-NOV-22
Surrogate: Chrysene d12			89.3		%		60-130	17-NOV-22
Surrogate: Acridine d9			85.2		%		60-130	17-NOV-22
VOC+F1-HSMS-WP	**Water**							
Batch R5893076								
WG3772510-10 DUP		**L2739914-1**						
Acetone		<0.050	<0.050	RPD-NA	mg/L	N/A	30	15-NOV-22
Benzene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
Bromobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Bromochloromethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Bromodichloromethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
Bromoform		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Bromomethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	15-NOV-22
n-Butylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
sec-Butylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
tert-Butylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Carbon disulfide		<0.0050	<0.0050	RPD-NA	mg/L	N/A	30	15-NOV-22
Carbon Tetrachloride		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
Chlorobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Chloroethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	15-NOV-22
Chloroform		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
Chloromethane		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	15-NOV-22
2-Chlorotoluene		<0.020	<0.020	RPD-NA	mg/L	N/A	30	15-NOV-22
4-Chlorotoluene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Dibromochloromethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
1,2-Dibromo-3-chloropropane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Water**							
Batch R5893076								
WG3772510-10 DUP		**L2739914-1**						
1,2-Dibromoethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Dibromomethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
1,2-Dichlorobenzene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
1,3-Dichlorobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
1,4-Dichlorobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Dichlorodifluoromethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	15-NOV-22
1,1-dichloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
1,2-Dichloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
1,1-dichloroethene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
cis-1,2-Dichloroethene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
trans-1,2-Dichloroethene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Dichloromethane		<0.0050	<0.0050	RPD-NA	mg/L	N/A	30	15-NOV-22
1,2-Dichloropropane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
1,3-Dichloropropane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
2,2-Dichloropropane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
1,1-Dichloropropene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
cis-1,3-Dichloropropene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
trans-1,3-Dichloropropene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Ethylbenzene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
F1		<0.10	<0.10	RPD-NA	mg/L	N/A	30	15-NOV-22
Hexachlorobutadiene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Hexane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
2-Hexanone (Methyl butyl ketone)		<0.020	<0.020	RPD-NA	mg/L	N/A	30	15-NOV-22
Isopropylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
4-Isopropyltoluene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
MEK		<0.020	<0.020	RPD-NA	mg/L	N/A	30	15-NOV-22
MIBK		<0.020	<0.020	RPD-NA	mg/L	N/A	30	15-NOV-22
MTBE		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
Styrene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
1,1,1,2-Tetrachloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
1,1,2,2-Tetrachloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
Tetrachloroethene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
Toluene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
1,2,3-Trichlorobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Water**							
Batch R5893076								
WG3772510-10 DUP		**L2739914-1**						
1,2,4-Trichlorobenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
1,1,1-Trichloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
1,1,2-Trichloroethane		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
Trichloroethene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
Trichlorofluoromethane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	50	15-NOV-22
1,2,3-Trichloropropane		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
1,2,4-Trimethylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
1,3,5-Trimethylbenzene		<0.0010	<0.0010	RPD-NA	mg/L	N/A	30	15-NOV-22
Vinyl Chloride		<0.00050	<0.00050	RPD-NA	mg/L	N/A	50	15-NOV-22
M+P-Xylenes		<0.00040	<0.00040	RPD-NA	mg/L	N/A	30	15-NOV-22
o-Xylene		<0.00050	<0.00050	RPD-NA	mg/L	N/A	30	15-NOV-22
WG3772510-8 LCS								
Acetone			110.8		%		70-130	14-NOV-22
Benzene			96.8		%		70-130	14-NOV-22
Bromobenzene			93.3		%		70-130	14-NOV-22
Bromochloromethane			103.4		%		70-130	14-NOV-22
Bromodichloromethane			104.9		%		70-130	14-NOV-22
Bromoform			100.7		%		70-130	14-NOV-22
Bromomethane			107.3		%		60-140	14-NOV-22
n-Butylbenzene			88.1		%		70-130	14-NOV-22
sec-Butylbenzene			94.8		%		70-130	14-NOV-22
tert-Butylbenzene			88.0		%		70-130	14-NOV-22
Carbon disulfide			110.6		%		70-130	14-NOV-22
Carbon Tetrachloride			108.5		%		70-130	14-NOV-22
Chlorobenzene			93.1		%		70-130	14-NOV-22
Chloroethane			90.3		%		60-140	14-NOV-22
Chloroform			109.7		%		70-130	14-NOV-22
Chloromethane			93.7		%		60-140	14-NOV-22
2-Chlorotoluene			83.6		%		70-130	14-NOV-22
4-Chlorotoluene			90.2		%		70-130	14-NOV-22
Dibromochloromethane			87.9		%		70-130	14-NOV-22
1,2-Dibromo-3-chloropropane			88.4		%		70-130	14-NOV-22
1,2-Dibromoethane			94.6		%		70-130	14-NOV-22
Dibromomethane			117.2		%		70-130	14-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Water**							
Batch R5893076								
WG3772510-8 LCS								
1,2-Dichlorobenzene			90.2		%		70-130	14-NOV-22
1,3-Dichlorobenzene			90.8		%		70-130	14-NOV-22
1,4-Dichlorobenzene			88.0		%		70-130	14-NOV-22
Dichlorodifluoromethane			88.5		%		60-140	14-NOV-22
1,1-dichloroethane			107.9		%		70-130	14-NOV-22
1,2-Dichloroethane			108.0		%		70-130	14-NOV-22
1,1-dichloroethene			104.5		%		70-130	14-NOV-22
cis-1,2-Dichloroethene			104.8		%		70-130	14-NOV-22
trans-1,2-Dichloroethene			108.9		%		70-130	14-NOV-22
Dichloromethane			116.5		%		70-130	14-NOV-22
1,2-Dichloropropane			91.7		%		70-130	14-NOV-22
1,3-Dichloropropane			93.9		%		70-130	14-NOV-22
2,2-Dichloropropane			118.0		%		70-130	14-NOV-22
1,1-Dichloropropene			103.1		%		70-130	14-NOV-22
cis-1,3-Dichloropropene			91.6		%		70-130	14-NOV-22
trans-1,3-Dichloropropene			92.7		%		70-130	14-NOV-22
Ethylbenzene			83.6		%		70-130	14-NOV-22
Hexachlorobutadiene			107.1		%		70-130	14-NOV-22
Hexane			101.3		%		70-130	14-NOV-22
2-Hexanone (Methyl butyl ketone)			86.8		%		70-130	14-NOV-22
Isopropylbenzene			92.5		%		70-130	14-NOV-22
4-Isopropyltoluene			83.1		%		70-130	14-NOV-22
MEK			106.8		%		70-130	14-NOV-22
MIBK			91.8		%		70-130	14-NOV-22
MTBE			96.2		%		70-130	14-NOV-22
Styrene			85.2		%		70-130	14-NOV-22
1,1,1,2-Tetrachloroethane			94.4		%		70-130	14-NOV-22
1,1,2,2-Tetrachloroethane			95.2		%		70-130	14-NOV-22
Tetrachloroethene			102.7		%		70-130	14-NOV-22
Toluene			83.2		%		70-130	14-NOV-22
1,2,3-Trichlorobenzene			98.6		%		70-130	14-NOV-22
1,2,4-Trichlorobenzene			95.3		%		70-130	14-NOV-22
1,1,1-Trichloroethane			107.8		%		70-130	14-NOV-22
1,1,2-Trichloroethane			94.1		%		70-130	14-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Water**							
Batch R5893076								
WG3772510-8 LCS								
Trichloroethene			104.0		%		70-130	14-NOV-22
Trichlorofluoromethane			104.8		%		60-140	14-NOV-22
1,2,3-Trichloropropane			95.4		%		70-130	14-NOV-22
1,2,4-Trimethylbenzene			84.7		%		70-130	14-NOV-22
1,3,5-Trimethylbenzene			87.5		%		70-130	14-NOV-22
Vinyl Chloride			88.4		%		60-140	14-NOV-22
M+P-Xylenes			92.1		%		70-130	14-NOV-22
o-Xylene			84.1		%		70-130	14-NOV-22
WG3772510-9 LCS								
F1			107.6		%		70-130	14-NOV-22
WG3772510-7 MB								
Acetone			<0.050		mg/L		0.05	14-NOV-22
Benzene			<0.00050		mg/L		0.0005	14-NOV-22
Bromobenzene			<0.0010		mg/L		0.001	14-NOV-22
Bromochloromethane			<0.0010		mg/L		0.001	14-NOV-22
Bromodichloromethane			<0.00050		mg/L		0.0005	14-NOV-22
Bromoform			<0.0010		mg/L		0.001	14-NOV-22
Bromomethane			<0.0010		mg/L		0.001	14-NOV-22
n-Butylbenzene			<0.0010		mg/L		0.001	14-NOV-22
sec-Butylbenzene			<0.0010		mg/L		0.001	14-NOV-22
tert-Butylbenzene			<0.0010		mg/L		0.001	14-NOV-22
Carbon disulfide			<0.0050		mg/L		0.005	14-NOV-22
Carbon Tetrachloride			<0.00050		mg/L		0.0005	14-NOV-22
Chlorobenzene			<0.0010		mg/L		0.001	14-NOV-22
Chloroethane			<0.0010		mg/L		0.001	14-NOV-22
Chloroform			<0.00050		mg/L		0.0005	14-NOV-22
Chloromethane			<0.0050		mg/L		0.005	14-NOV-22
2-Chlorotoluene			<0.020		mg/L		0.02	14-NOV-22
4-Chlorotoluene			<0.0010		mg/L		0.001	14-NOV-22
Dibromochloromethane			<0.00050		mg/L		0.0005	14-NOV-22
1,2-Dibromo-3-chloropropane			<0.0010		mg/L		0.001	14-NOV-22
1,2-Dibromoethane			<0.0010		mg/L		0.001	14-NOV-22
Dibromomethane			<0.0010		mg/L		0.001	14-NOV-22
1,2-Dichlorobenzene			<0.00050		mg/L		0.0005	14-NOV-22
1,3-Dichlorobenzene			<0.0010		mg/L		0.001	14-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Water**							
Batch R5893076								
WG3772510-7 MB								
1,4-Dichlorobenzene			<0.0010		mg/L		0.001	14-NOV-22
Dichlorodifluoromethane			<0.0010		mg/L		0.001	14-NOV-22
1,1-dichloroethane			<0.00050		mg/L		0.0005	14-NOV-22
1,2-Dichloroethane			<0.00050		mg/L		0.0005	14-NOV-22
1,1-dichloroethene			<0.00050		mg/L		0.0005	14-NOV-22
cis-1,2-Dichloroethene			<0.0010		mg/L		0.001	14-NOV-22
trans-1,2-Dichloroethene			<0.0010		mg/L		0.001	14-NOV-22
Dichloromethane			<0.0050		mg/L		0.005	14-NOV-22
1,2-Dichloropropane			<0.0010		mg/L		0.001	14-NOV-22
1,3-Dichloropropane			<0.0010		mg/L		0.001	14-NOV-22
2,2-Dichloropropane			<0.0010		mg/L		0.001	14-NOV-22
1,1-Dichloropropene			<0.0010		mg/L		0.001	14-NOV-22
cis-1,3-Dichloropropene			<0.0010		mg/L		0.001	14-NOV-22
trans-1,3-Dichloropropene			<0.0010		mg/L		0.001	14-NOV-22
Ethylbenzene			<0.00050		mg/L		0.0005	14-NOV-22
F1			<0.10		mg/L		0.1	14-NOV-22
Hexachlorobutadiene			<0.0010		mg/L		0.001	14-NOV-22
Hexane			<0.0010		mg/L		0.001	14-NOV-22
2-Hexanone (Methyl butyl ketone)			<0.020		mg/L		0.02	14-NOV-22
Isopropylbenzene			<0.0010		mg/L		0.001	14-NOV-22
4-Isopropyltoluene			<0.0010		mg/L		0.001	14-NOV-22
MEK			<0.020		mg/L		0.02	14-NOV-22
MIBK			<0.020		mg/L		0.02	14-NOV-22
MTBE			<0.00050		mg/L		0.0005	14-NOV-22
Styrene			<0.0010		mg/L		0.001	14-NOV-22
1,1,1,2-Tetrachloroethane			<0.00050		mg/L		0.0005	14-NOV-22
1,1,2,2-Tetrachloroethane			<0.00050		mg/L		0.0005	14-NOV-22
Tetrachloroethene			<0.00050		mg/L		0.0005	14-NOV-22
Toluene			<0.00050		mg/L		0.0005	14-NOV-22
1,2,3-Trichlorobenzene			<0.0010		mg/L		0.001	14-NOV-22
1,2,4-Trichlorobenzene			<0.0010		mg/L		0.001	14-NOV-22
1,1,1-Trichloroethane			<0.00050		mg/L		0.0005	14-NOV-22
1,1,2-Trichloroethane			<0.00050		mg/L		0.0005	14-NOV-22
Trichloroethene			<0.00050		mg/L		0.0005	14-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Water**							
Batch R5893076								
WG3772510-7 MB								
Trichlorofluoromethane			<0.0010		mg/L		0.001	14-NOV-22
1,2,3-Trichloropropane			<0.0010		mg/L		0.001	14-NOV-22
1,2,4-Trimethylbenzene			<0.0010		mg/L		0.001	14-NOV-22
1,3,5-Trimethylbenzene			<0.0010		mg/L		0.001	14-NOV-22
Vinyl Chloride			<0.00050		mg/L		0.0005	14-NOV-22
M+P-Xylenes			<0.00040		mg/L		0.0004	14-NOV-22
o-Xylene			<0.00050		mg/L		0.0005	14-NOV-22
Surrogate: 4-Bromofluorobenzene (SS)			86.4		%		70-130	14-NOV-22
Surrogate: 1,4-Difluorobenzene (SS)			90.9		%		70-130	14-NOV-22
Surrogate: 3,4-Dichlorotoluene (SS)			124.4		%		70-130	14-NOV-22
WG3772510-11 MS		**L2739914-1**						
Acetone			124.0		%		70-130	14-NOV-22
Benzene			103.6		%		70-130	14-NOV-22
Bromobenzene			101.2		%		70-130	14-NOV-22
Bromochloromethane			113.7		%		70-130	14-NOV-22
Bromodichloromethane			111.0		%		70-130	14-NOV-22
Bromoform			109.2		%		70-130	14-NOV-22
Bromomethane			115.6		%		70-130	14-NOV-22
n-Butylbenzene			86.6		%		70-130	14-NOV-22
sec-Butylbenzene			97.5		%		70-130	14-NOV-22
tert-Butylbenzene			91.1		%		70-130	14-NOV-22
Carbon disulfide			109.2		%		70-130	14-NOV-22
Carbon Tetrachloride			109.1		%		70-130	14-NOV-22
Chlorobenzene			99.9		%		70-130	14-NOV-22
Chloroethane			95.3		%		60-140	14-NOV-22
Chloroform			114.6		%		70-130	14-NOV-22
Chloromethane			97.0		%		70-130	14-NOV-22
2-Chlorotoluene			87.8		%		70-130	14-NOV-22
4-Chlorotoluene			93.8		%		70-130	14-NOV-22
Dibromochloromethane			96.0		%		70-130	14-NOV-22
1,2-Dibromo-3-chloropropane			104.0		%		70-130	14-NOV-22
1,2-Dibromoethane			108.3		%		70-130	14-NOV-22
Dibromomethane			129.0		%		70-130	14-NOV-22
1,2-Dichlorobenzene			97.4		%		70-130	14-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Water**							
Batch R5893076								
WG3772510-11 MS		**L2739914-1**						
1,3-Dichlorobenzene			95.2		%		70-130	14-NOV-22
1,4-Dichlorobenzene			93.4		%		70-130	14-NOV-22
Dichlorodifluoromethane			88.4		%		70-130	14-NOV-22
1,1-dichloroethane			111.6		%		60-140	14-NOV-22
1,2-Dichloroethane			117.3		%		70-130	14-NOV-22
1,1-dichloroethene			102.9		%		60-140	14-NOV-22
cis-1,2-Dichloroethene			112.7		%		70-130	14-NOV-22
trans-1,2-Dichloroethene			109.7		%		70-130	14-NOV-22
Dichloromethane			123.6		%		70-130	14-NOV-22
1,2-Dichloropropane			99.6		%		70-130	14-NOV-22
1,3-Dichloropropane			104.0		%		70-130	14-NOV-22
2,2-Dichloropropane			113.4		%		70-130	14-NOV-22
1,1-Dichloropropene			106.8		%		60-140	14-NOV-22
cis-1,3-Dichloropropene			98.1		%		70-130	14-NOV-22
trans-1,3-Dichloropropene			96.7		%		70-130	14-NOV-22
Ethylbenzene			87.2		%		70-130	14-NOV-22
Hexachlorobutadiene			113.3		%		70-130	14-NOV-22
Hexane			101.8		%		70-130	14-NOV-22
2-Hexanone (Methyl butyl ketone)			97.3		%		70-130	14-NOV-22
Isopropylbenzene			95.1		%		70-130	14-NOV-22
4-Isopropyltoluene			83.9		%		70-130	14-NOV-22
MEK			121.2		%		70-130	14-NOV-22
MIBK			106.0		%		70-130	14-NOV-22
MTBE			103.1		%		70-130	14-NOV-22
Styrene			88.7		%		70-130	14-NOV-22
1,1,1,2-Tetrachloroethane			99.1		%		70-130	14-NOV-22
1,1,2,2-Tetrachloroethane			107.4		%		60-140	14-NOV-22
Tetrachloroethene			106.4		%		70-130	14-NOV-22
Toluene			89.1		%		70-130	14-NOV-22
1,2,3-Trichlorobenzene			111.9		%		70-130	14-NOV-22
1,2,4-Trichlorobenzene			104.3		%		70-130	14-NOV-22
1,1,1-Trichloroethane			109.4		%		60-140	14-NOV-22
1,1,2-Trichloroethane			105.2		%		60-140	14-NOV-22
Trichloroethene			109.9		%		70-130	14-NOV-22

Quality Control Report

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC+F1-HSMS-WP	**Water**							
Batch R5893076								
WG3772510-11 MS		**L2739914-1**						
Trichlorofluoromethane			106.9		%		70-130	14-NOV-22
1,2,3-Trichloropropane			108.7		%		70-130	14-NOV-22
1,2,4-Trimethylbenzene			86.8		%		70-130	14-NOV-22
1,3,5-Trimethylbenzene			89.1		%		70-130	14-NOV-22
Vinyl Chloride			92.3		%		60-140	14-NOV-22
M+P-Xylenes			94.8		%		70-130	14-NOV-22
o-Xylene			88.9		%		70-130	14-NOV-22
WG3772510-12 MS		**L2739914-1**						
F1			82.9		%		70-130	14-NOV-22

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

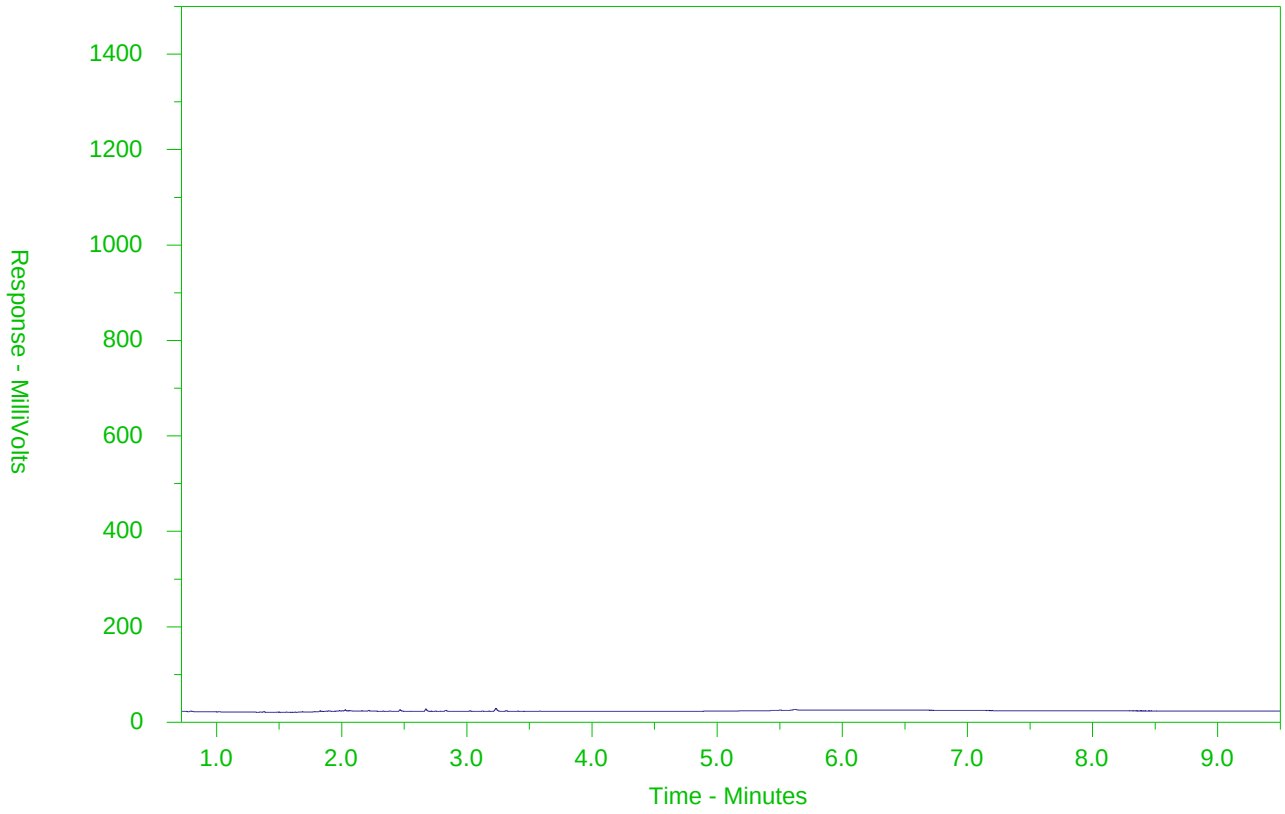
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

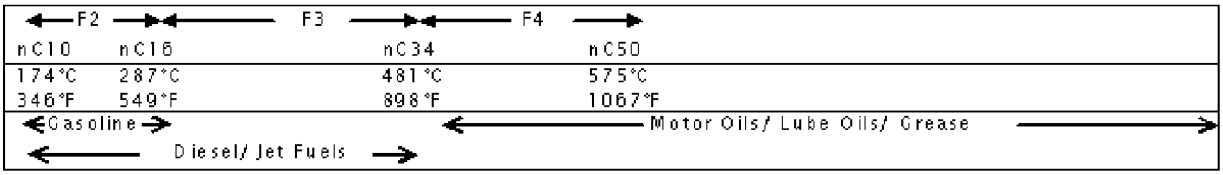
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739914-1
Client Sample ID: MW22-01





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

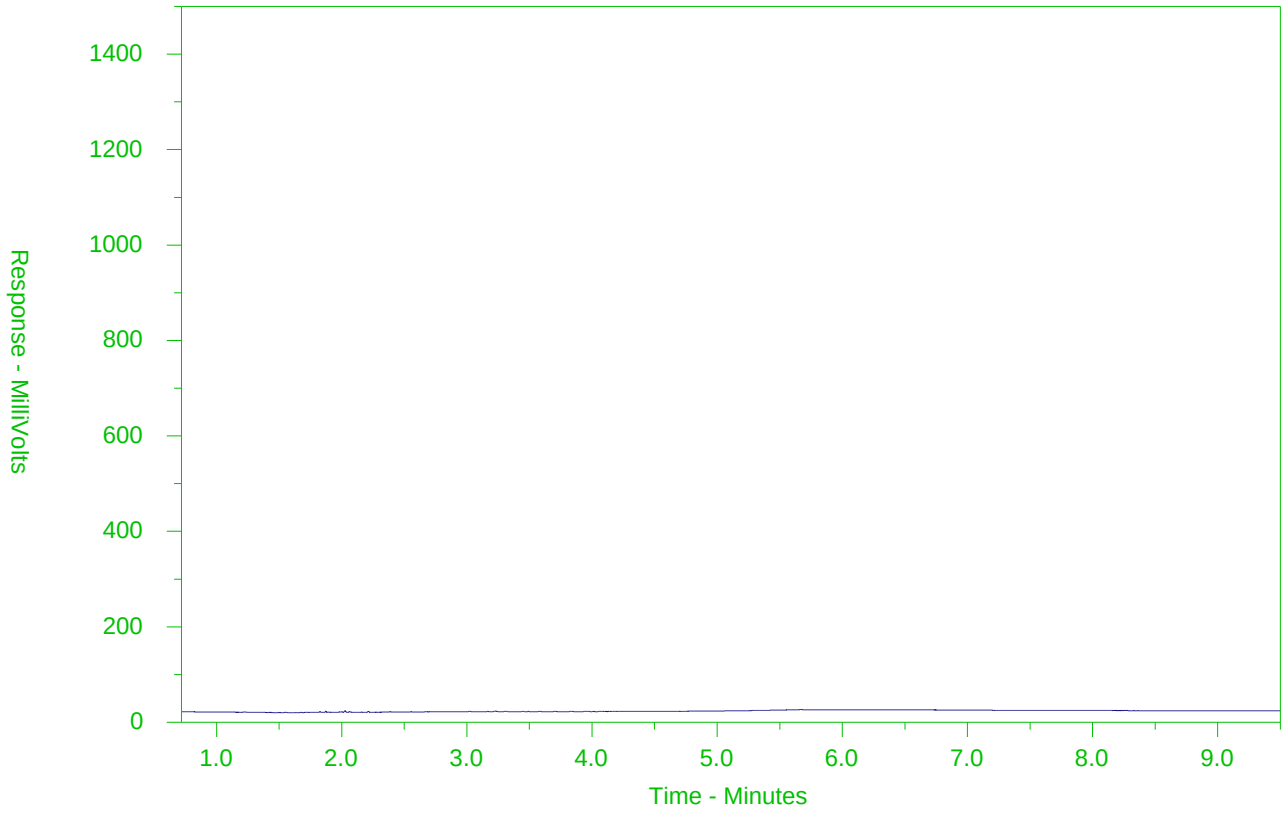
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

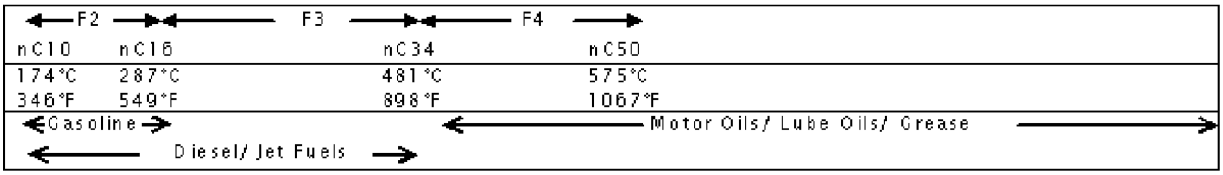
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739914-2
Client Sample ID: MW22-02





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

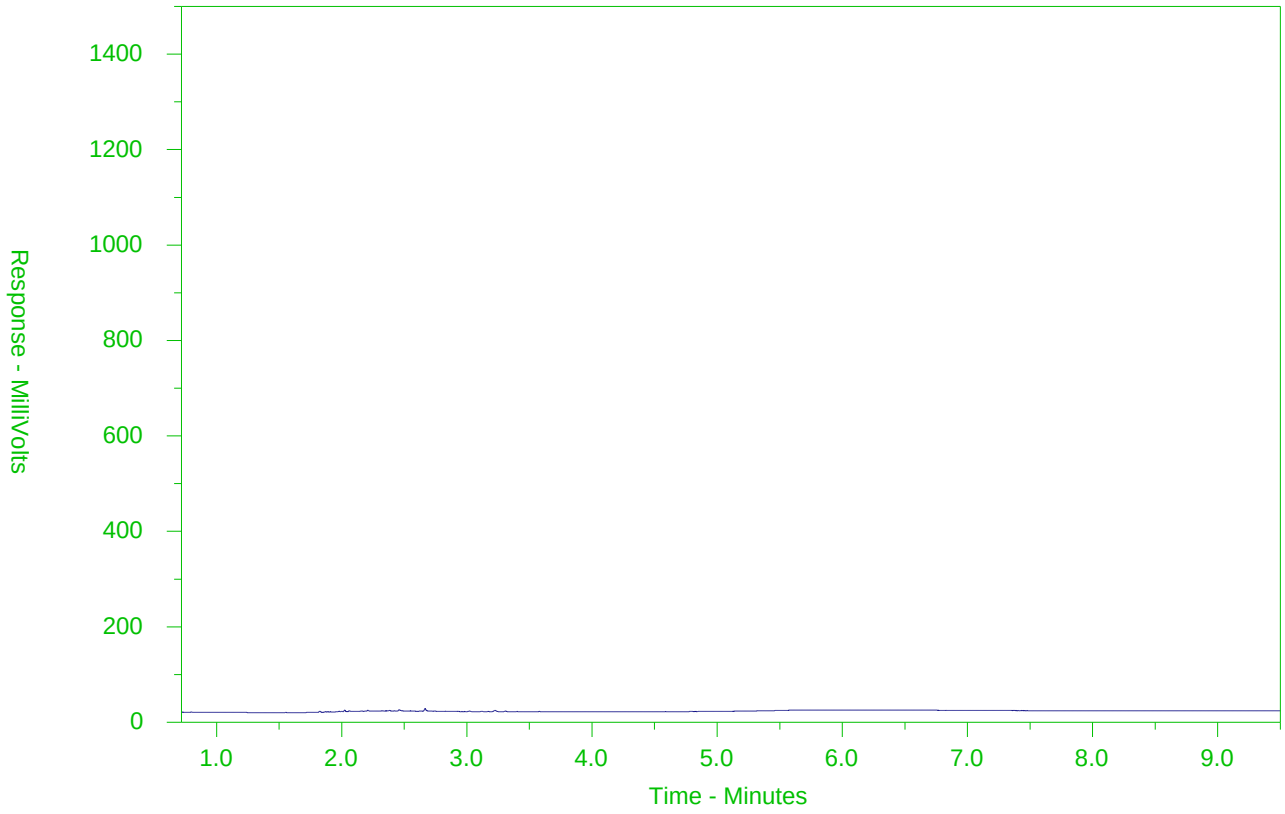
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

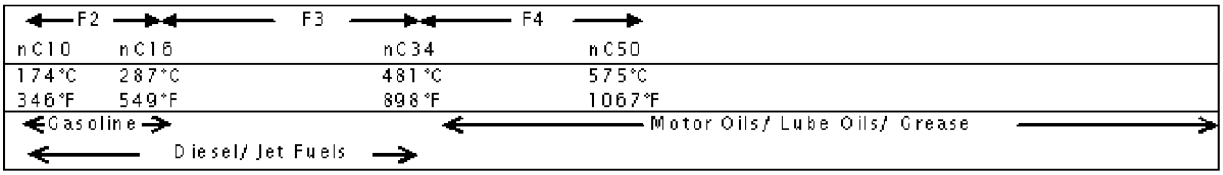
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739914-3
Client Sample ID: MW22-03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

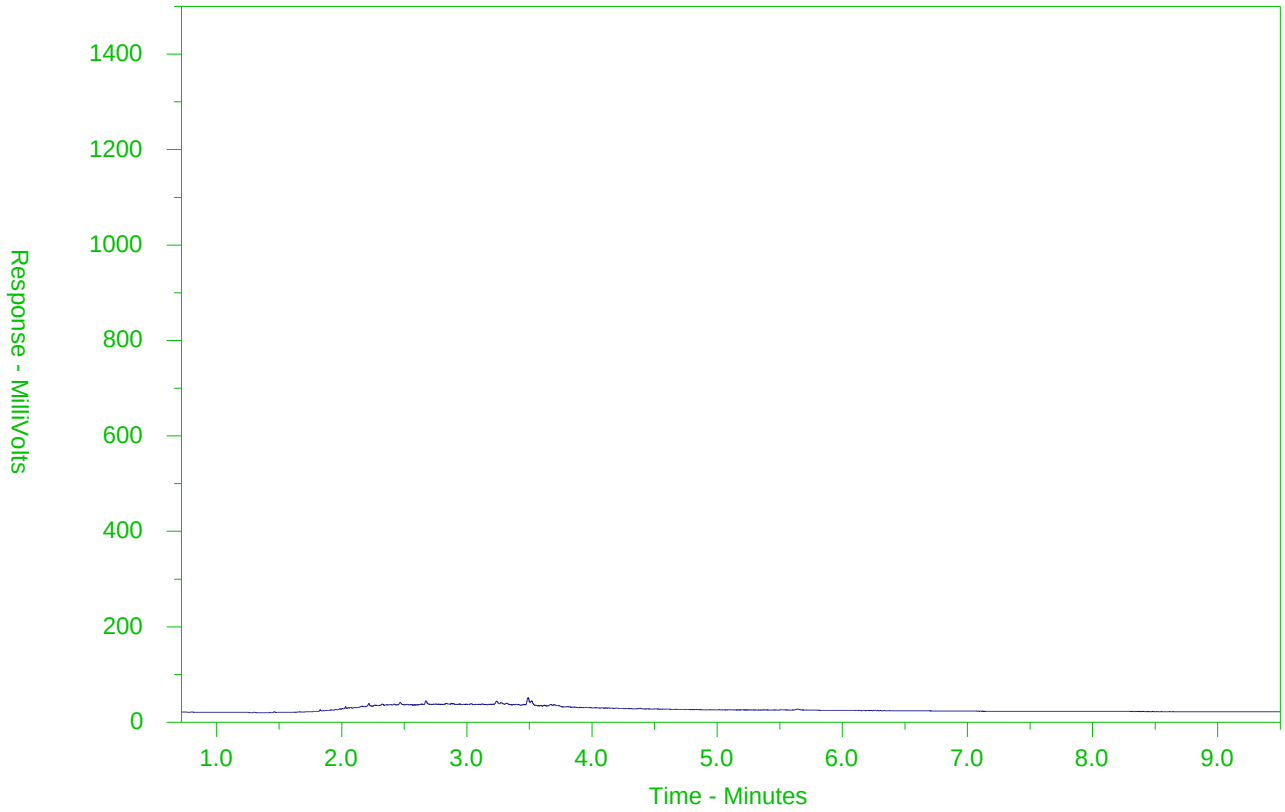
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

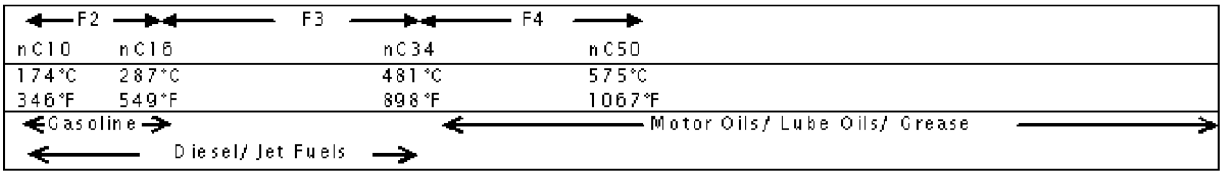
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739914-4
Client Sample ID: MW22-04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

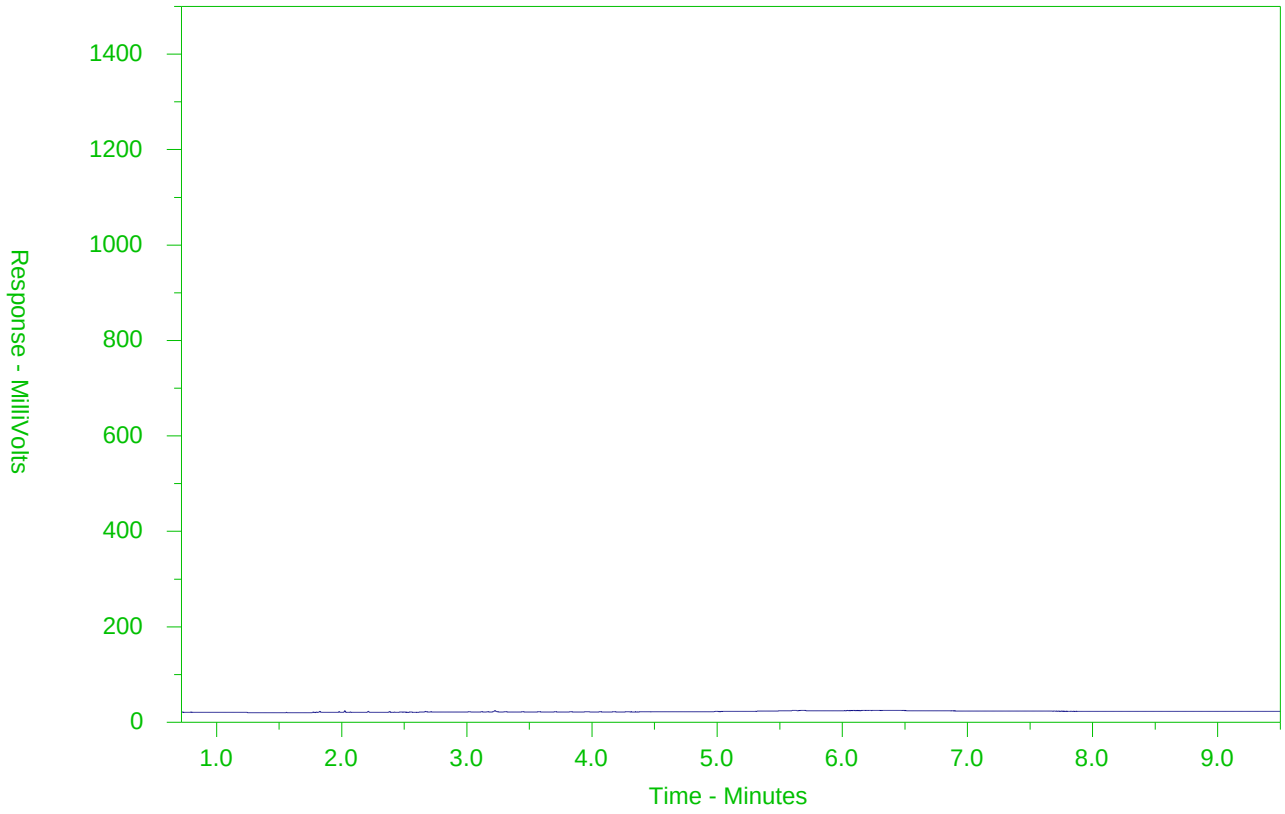
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

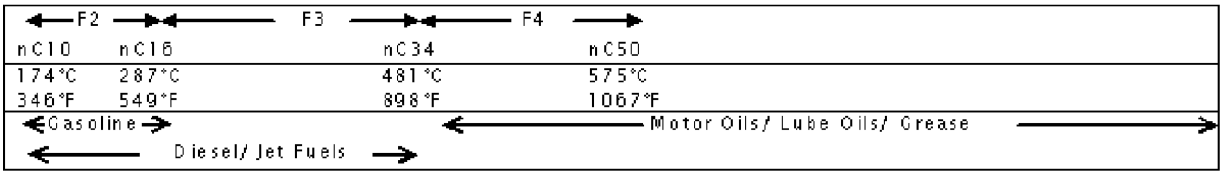
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739914-5
Client Sample ID: MW22-05





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

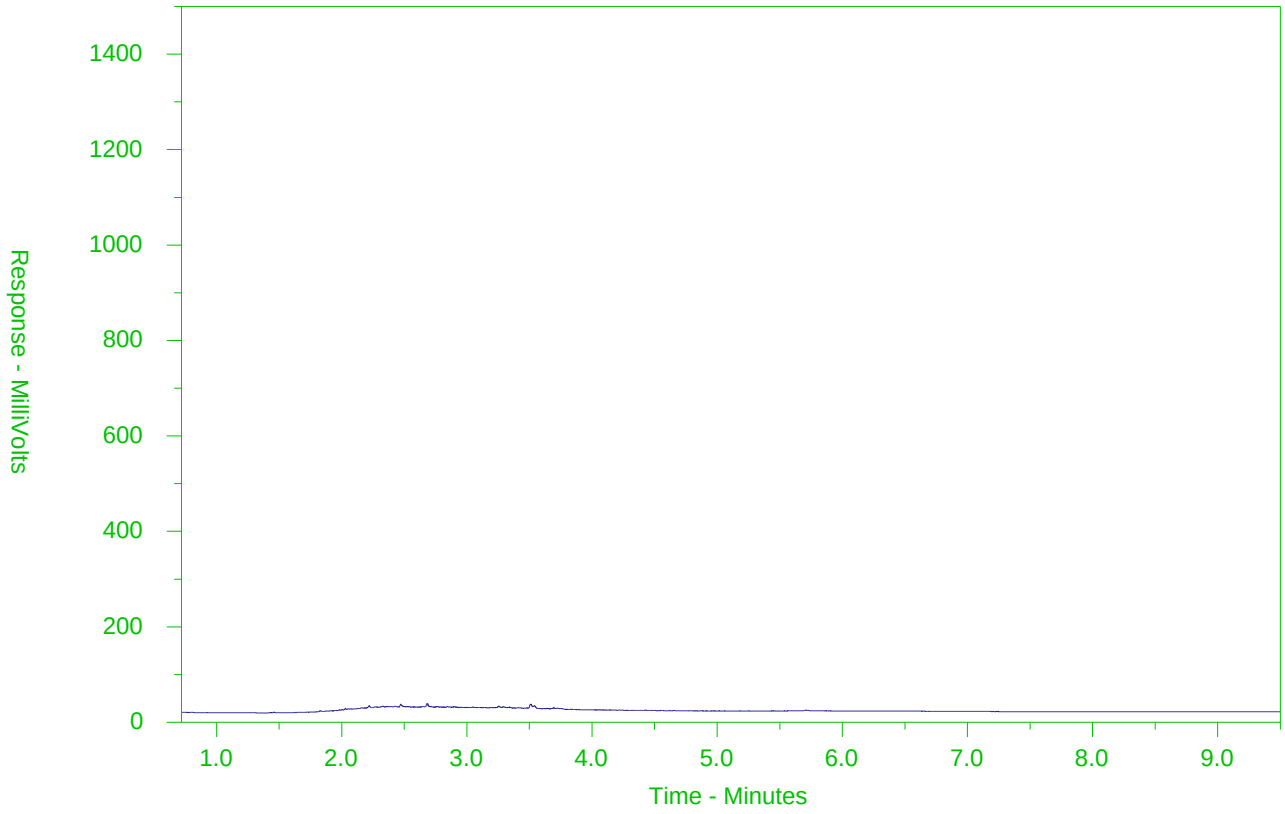
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

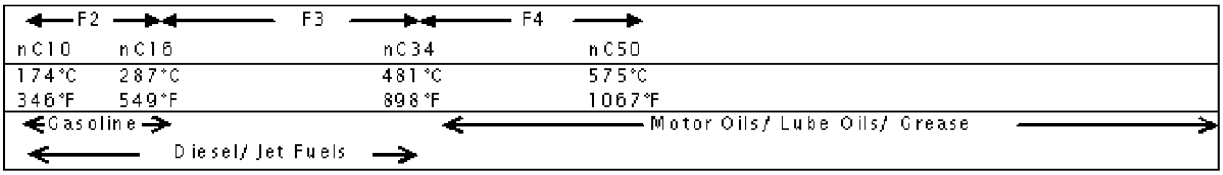
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739914-6
Client Sample ID: MW22-10





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

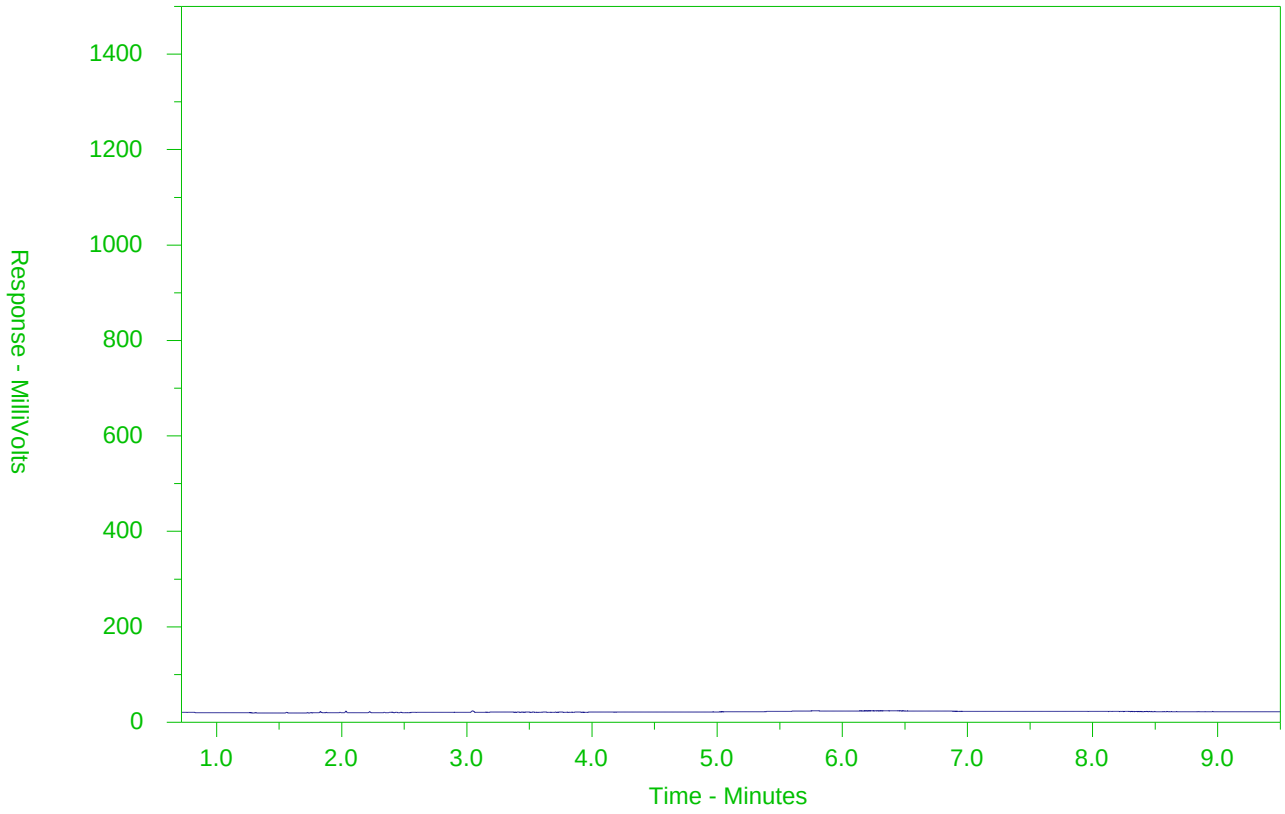
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

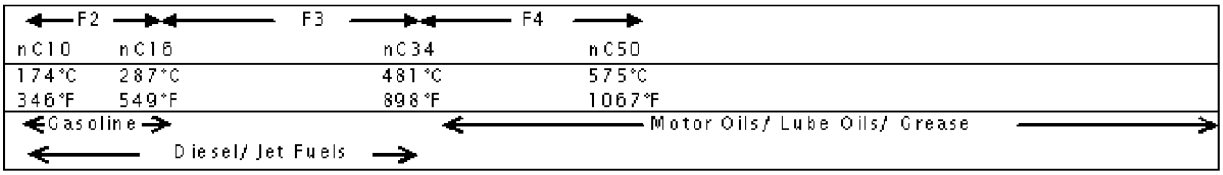
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739914-7
Client Sample ID: 17-03





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

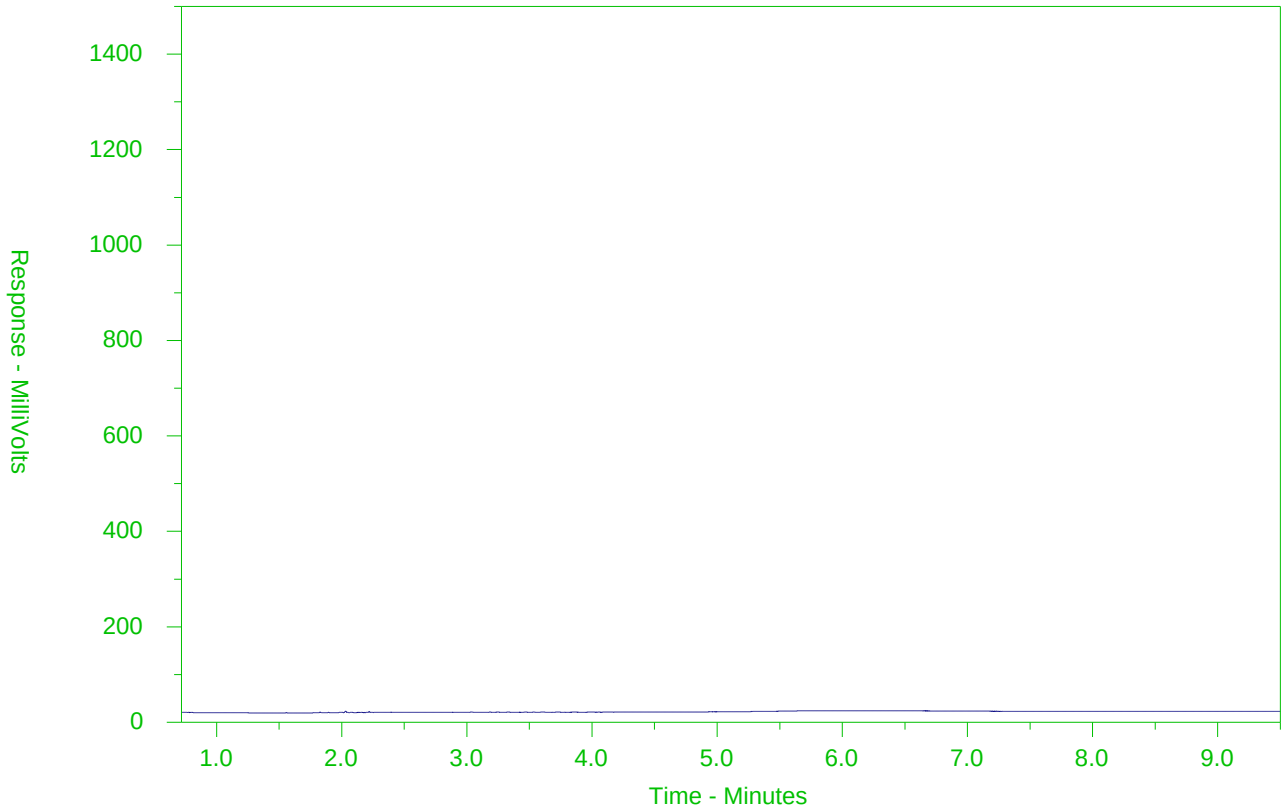
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

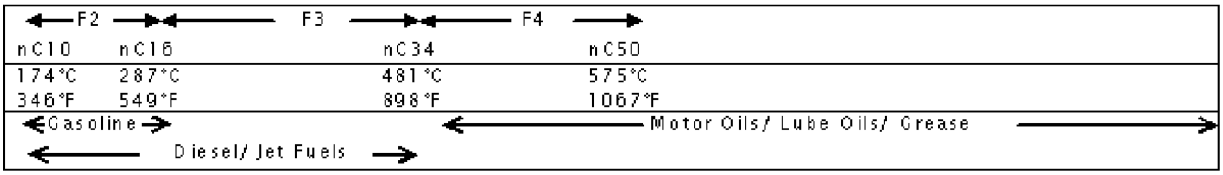
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739914-8
Client Sample ID: 18-04





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

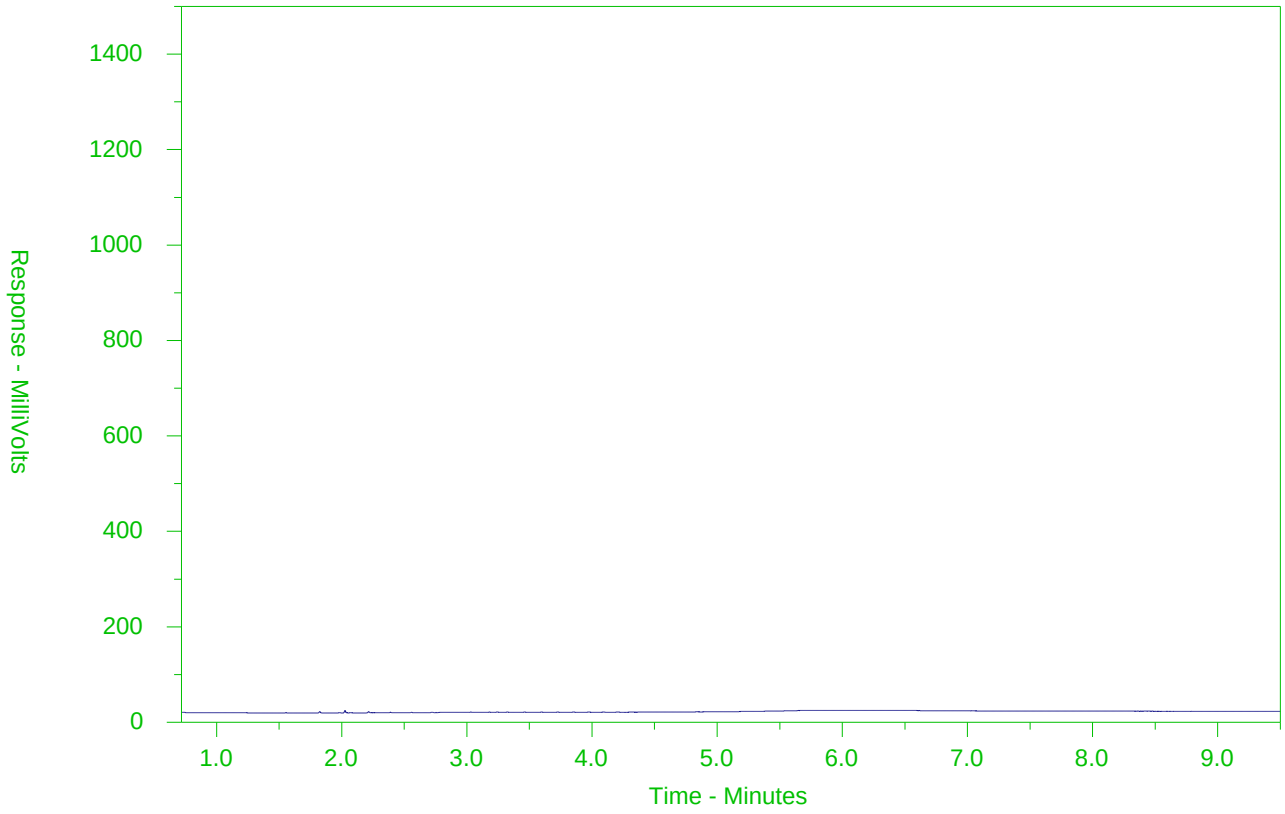
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

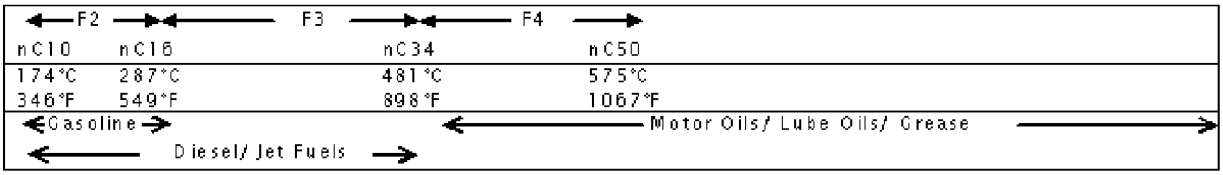
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739914-9
Client Sample ID: TRIP BLANK





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

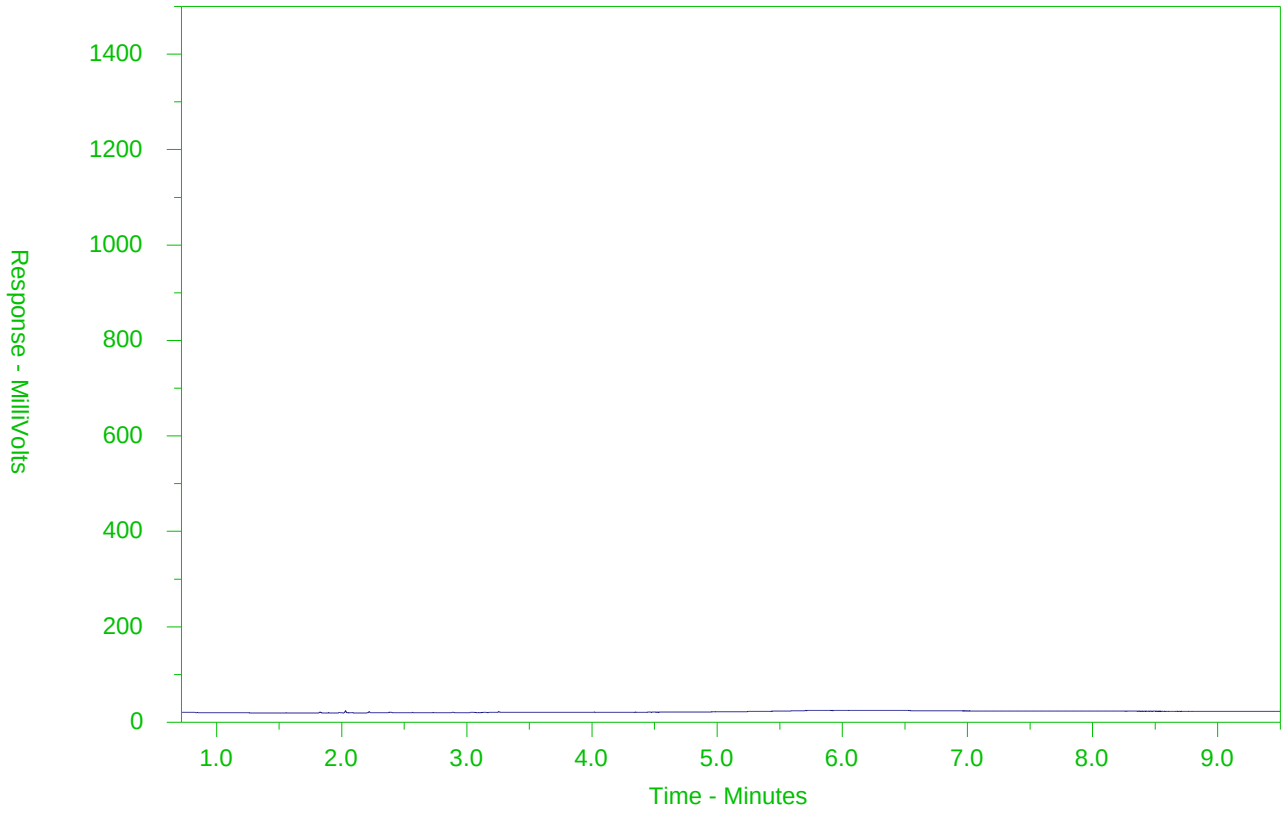
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

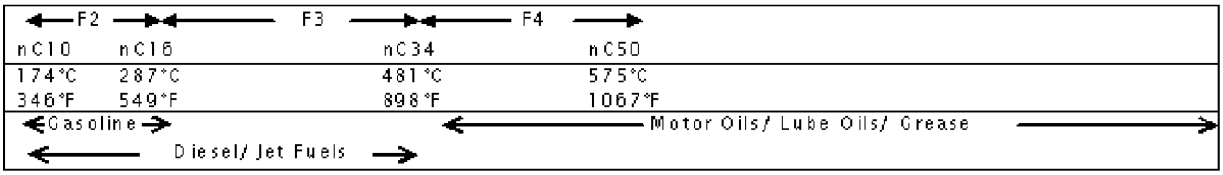
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2739914-10
Client Sample ID: FIELD BLANK





The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR library can be found at www.alsglobal.com.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

L2739914-COFC

Report To	Contact and company name below will appear on the final report
Company:	AECOM
Contact:	Jen Murray
Phone:	204-803-9508
	Company address below will appear on the final report
Street:	99 Commerce Drive
City/Province:	Winnipeg, Manitoba
Postal Code:	R3P 0Y7
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	AECOM Canada Ltd.
Contact:	Accounts Payable

Reports / Recipients	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA	☑ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked	
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Email 1 or Fax	CANSSC.E-billing@aecom.com
Email 2	

Project Information	
ALS Account # / Quote #:	
Job #:	60484163
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (ALS use only):

ALS Contact: **Sampler:** MP

Turnaround Time

- ☑ Routine [R] if received by 3pm M-F - no surcharges apply
- ☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
- ☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum
- ☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum
- ☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
- ☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Required for all E&P TATs:

For all tests with rush TATs requested, please contact your AM to confirm availability.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	F1-F2	PAH's	Dissolved Metals	VOC's	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
	MW22-01	09-Nov-22		Water	5	✓	✓	✓	✓	✓			
	MW22-02	"		"	5	✓	✓	✓	✓	✓			
	MW22-03	"		"	5	✓	✓	✓	✓	✓			
	MW22-04	"		"	5	✓	✓	✓	✓	✓			
	MW22-05	"		"	5	✓	✓	✓	✓	✓			
	MW22-10	"		"	5	✓	✓	✓	✓	✓			
	17-03	"		"	5	✓	✓	✓	✓	✓			
	18-04	"		"	5	✓	✓	✓	✓	✓			

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☑ NO

Are samples for human consumption/ use? ☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			
10.1							

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date: NOV 09 2022	Time: 3:25

FINAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

aecom.com

Phase III Environmental Site Assessment

NEWPCC Upgrade: Biosolids Facilities, 2230 Main Street, Winnipeg, Manitoba

Prepared by:
AECOM Canada Ltd.
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Winnipeg, MB R3P 0Y7 Canada

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www.aecom.com

Date: November 2023
Project #: 60660698

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Ms. Lana Obach
Senior Project Engineer,
Engineering Division, Water and Waste Department
City of Winnipeg
1220 Pacific Avenue
Winnipeg, Manitoba R3E 1G6

November 23, 2023

Project #
60660698

Dear Ms. Obach:

Subject: **Phase III Environmental Site Assessment, NEWPCC Upgrade: Biosolids Facilities**
2230 Main Street, Winnipeg, Manitoba

AECOM Canada Ltd. (AECOM) is pleased to submit our final report summarizing the Phase III Environmental Site Assessment completed at the North End Water Pollution Control Centre (NEWPCC) in support of the NEWPCC Upgrade Biosolids Facilities Project, at 2230 Main Street in Winnipeg, Manitoba.

If you have any questions with regards to this report, do not hesitate to contact Kimber Osiowy at 204-792-1872. We thank you again for the opportunity to work with you.

Yours sincerely,
AECOM Canada Ltd.



Kimber Osiowy, M. Sc., P. Eng.
Remediation Manager, Environment
Kimber.Osiowy@aecom.com

Quality information

Prepared by	Checked by	Approved by	Reviewed by
Jonathan Ota, P.Geo. Geo-Environmental Scientist Environment	Jen Murray, B.Env.Sc. Environmental Scientist Environment	Kimber Osiowy, M.Sc., P.Eng. Remediation Manager, Environment	Jim Burke, P.Ag Senior Environmental Scientist Environment

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date: November 23, 2023

PROVINCE OF MANITOBA
K.B.P. OSIOWY
Nov 23-23
REGISTERED PROFESSIONAL ENGINEER

Revision History

Revision	Revision date	Name	Details
0	September 5, 2023	Jonathan Ota	Draft for Comment
1	November 23, 2023	Jen Murray	Final Report

Distribution List

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	✓	City of Winnipeg

Prepared for:

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Executive Summary

The City of Winnipeg retained AECOM Canada Ltd. (AECOM) to complete a Phase III Environmental Site Assessment (ESA) at the North End Water Pollution Control Centre (NEWPCC) located at 2330 Main Street in Winnipeg, Manitoba (MB) (hereafter referred to as the "Site"). The focus of the Phase III ESA was in the northwestern portion of Parcel A and in central portion of Parcel B to support the NEWPCC Upgrade: Biosolids Facilities Project.

Previous environmental work completed at the Site in Parcel A in November 2022 identified concentrations of metals, petroleum hydrocarbons (PHC) and volatile organic carbons (VOCs) in soil above applicable soil quality guidelines within the focus area.

The objective of the Phase III ESA is to confirm and delineate the previously reported PHC, polycyclic aromatic hydrocarbon (PAH) and metals impacts in the soil in the focus area of Parcel A and Parcel B of the Site.

Executed Scope of Work

This environmental soil assessment program was undertaken between May 30, 2023, and June 1, 2023 with the drilling of 13 boreholes.

Three soil samples were collected from each borehole and submitted for laboratory analysis of the following parameters: benzene, toluene, ethylbenzene and xylenes (BTEX), PHC fractions F1 to F4 (PHC F1-F4), PAHs and metals.

Activities associated with the above tasks included the completion of subsurface utility clearances and surveying of investigation locations conducted on May 26, 2023.

Summary of Findings

The subsurface stratigraphy at the investigated borehole locations generally consisted of 0.3m - 0.5 m of topsoil underlain by a horizon of firm clayey silt, which grades into a firm or stiff silty clay 6.1 metres below ground surface (m bgs), the maximum depth of the investigation.

No staining was noted in any of the boreholes, however a slight PHC odour was noted in boreholes BH23-13 at 2.4 – 2.5 m bgs but field screening with RKI Eagle did not record any readings from the soil sample.

- Laboratory Analytical Results:
  - A summary of the soil samples above the applied soil quality guidelines (SQGs) are presented in the appended tables.
  - Of the 13 boreholes advanced at the Site in 2023, PHC, PAH and metals soil impacts were identified in six boreholes.
  - PHC, PAH or metals soil impacts were identified in six boreholes extending from 1.4 m bgs to depths of approximately 5.1 m bgs with limited lateral delineation, complete lateral delineation was not achieved at any of the impacted areas. Vertical delineation of impacts has been established in all impacted boreholes, except for BH23-05 (Arsenic impacts at 4.9 – 5.1 m bgs) located in the southeast of Parcel B and BH22-25 which had impacts to 2.7 m bgs but was not sampled in deeper depths. In the boreholes where vertical delineation has been achieved, non-impacted soil is reached in those boreholes at depths approximately 2.6 m bgs.

Conclusions

- The Phase III ESA conducted at the Site identified PHC, PAH and metals impacts in the soil. In most areas across the Site, impacts did not extend below 3.1 m bgs in those soils sampled considering that BH23-02 and BH23-13 which are within the vicinity of BH22-25 were not impacted at that depth.
- In the northwest portion of Parcel A, it is expected that PHC and metals soil impacts generally extend from approximately 1.5 m bgs to 3.0 m bgs, with a deeper pocket in the northwest corner in the area of MW22-03 to

4.5 m bgs. It is suspected that PHC F3 and metals impacts extend to the north and south and southwest outside of the proposed retention pond boundary. Arsenic impacts were detected at 2.9 – 3.1 m bgs in BH23-02. After excavation and construction, if arsenic impacts remain along the walls at this depth (> 1.5 m bgs), it is not considered to present an environmental risk to the Site. Soil impacts identified in Parcel A appear to align with what appears to be historical lagoons or settling ponds visible in the 1959 air photo. From approximately surface to 1 m bgs within the historical lagoon area is considered non impacted and could be stockpile for sampling as potential clean overburden during construction, however, an estimated volume of about 15,750 m^3 between 1 m – 3.5 m bgs are considered impacted. The impacted area may extend further to the north and northeast and south southwest and extend deeper than 3.0 m bgs in BH 22-25.

- In Parcel B, the impacts were identified around 1.4 – 1.6 m except for arsenic in BH23-05 which was reported at 4.9 – 5.1 m. As discussed above, if excavation does not extend to this depth in the vicinity of BH23-05 during construction, the arsenic concentrations can remain at this depth and would not be considered to present a risk to the Site. Within Parcel B, PHC, PAH and/or metals impacts did not appear to extend below 3.0 m bgs (except arsenic in BH23-05) and the horizontal extent has been delineated in all directions, except to the north. A high-end volume estimate of impacted soil on the north portion of Parcel B is approximately 3,000 m^3 assuming impacts extend to the north property boundary, and on the south portion of Parcel B volume is estimated at 2,600 m^3, assuming halfway to the nearest clean boreholes define the extent of impacts. It should be noted, that although lateral delineation has been achieved in Parcel B to the east, south and west, the nearest boreholes providing clean boundaries are located approximately 30 - 40 m away there may still be a possibility of PHC contamination extending to the east of the estimated extent of soil impacts.
- Soil management will be required during construction of the Biosolids Facilities Project. It is recommended that a Construction Environmental Management Plan be prepared during the tendering process. Also, continuous monitoring of the groundwater within the site is recommended. Given the presence of soil impacts, a copy of this report should be submitted to the Director of Manitoba Environment, Climate and Parks (MECP) under *Section 3.1, Part 2 of the Contaminated Sites Remediation Act*.
- Due to the very high concentrations of chromium reported in (BH23-07, BH23-04 and BH23-13), sample BH23-07 at 1.4 – 1.6 m bgs was submitted for additional analysis of hexavalent chromium. Results indicated hexavalent chromium concentrations of 0.24 mg/kg, which is below soil quality guidelines (1.4 mg/kg). However, it should be noted analysis was completed after recommended laboratory hold times. Although hexavalent chromium concentrations in this sample are below guidelines, this compound was detected at the Site and is important to note since hexavalent Chromium is a cancer inhalation concern. Other contaminants of concern which can pose a health risk during construction that are in concentrations exceeding guidelines at the Site include lead and arsenic. Special care should be taken during construction and excavation to protect workers from inhalation of soil particles. Mitigation measures include keeping the dust down during excavation, not excavating during high winds or very dry conditions, using wetting agents, implementing segregation or work zones, workers wearing half mask respirators, as well as washing work clothes.

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1. Introduction

The City of Winnipeg retained AECOM Canada Ltd. (AECOM) to complete a Phase III Environmental Site Assessment (ESA) at the North End Water Pollution Control Centre (NEWPCC) in support of the NEWPCC Upgrade Biosolids Facilities Project. The Site investigation took place in the northwestern portion of Parcel A and in the north central portion of Parcel B, at 2330 Main Street in Winnipeg, Manitoba (MB) (hereafter referred to as the "Site").

The location and layout of the Site are shown in Figure 1. Selected Site photographs, borehole logs and certificates of laboratory analysis, are presented in Appendices A through C, respectively. The Phase III ESA was conducted from May 30 to June 1, 2023.

1.1 Objectives

The Phase II ESA completed at the Site in October and November 2022 identified concentrations of metals, petroleum hydrocarbons (PHC) and polycyclic aromatic hydrocarbon (PAH) in soil above applicable soil quality guidelines (AECOM, 2023).

The objective of the Phase III ESA was to delineate the previously reported PHC, PAH and metals impacts in soil in the northwestern portion of Parcel A, in the area of the proposed retention pond, and in the central portion of Parcel B, to provide a more accurate estimate of location and volume of impacted soil at the Site. Although impacts were identified during the Phase II ESA in the southern portion of Parcel A, this area was not investigated further as part of this Phase III ESA.

2. Background

The Site is located within the NEWPCC facilities and comprises the area west of the developed NEWPCC facilities at 2230 Main Street (Parcel A) and the area immediately west across the rail line (Parcel B). Parcel B can be accessed from 2510 Ferrier Street. The Site is zoned as M1-M3 Industrial Land Use (City of Winnipeg, 2022). The Site Plan is shown on Figure 1.

Parcel A area is estimated to be about 800 m x 300 m and infrastructure on site includes several buildings, tank farms, paved access roads and landscaped areas. The area of investigation was in the area of the proposed retention pond on the northwest portion of Parcel A and within a boundary of approximately 100 m x 120 m. Parcel B is approximately 200 m x 300 m in size and is currently vacant except for a telecommunication tower and it is covered by vegetation. Parcel A and Parcel B are divided by a Canadian Pacific Rail line that runs northeast -southwest. The nearest surface water body to the Site is the Red River located about 1 km east of the Site. Although, there was a low spot area located about 165 m from Parcel B.

Parcel A is surrounded by vacant land with residential land further to the north. To the south is Vince Leah Park and residential land. A CP rail line is located on the west boundary of Parcel A, with Parcel B further to the west. The North End Winnipeg Water Pollution Control is to the east of the Site.

Parcel B is surrounded by agricultural/vacant land to the north, commercial/ industrial land use to the south, Ferrier Street and industrial building to the west and the CP rail line with Parcel A to the east.

2.1 Previous Environmental Activities

AECOM, (AECOM, 2023), Phase II Environmental Site Assessment, 2230 Main Street, Winnipeg, Manitoba

AECOM conducted a Phase II ESA on the Site which consisted of advancing 30 boreholes (BH22-01 to BH22-25 and MW22-01 to MW22-07) between October 31 and November 5, 2022. The boreholes were advanced to depths

ranging from 3.0 m bgs to 10 m bgs. and five boreholes were completed as above-grade monitoring wells (MW22-01 to MW22-05). Boreholes that were not completed as groundwater monitoring wells were backfilled with bentonite.

Based on the results of the Phase II ESA conducted on the Site, AECOM identified PHC, PAH and metals parameters in soil and groundwater (PHCs) at concentrations above the applied environmental quality guidelines (EQGs). In most areas across the Site, impacts did not extend below 3.0 – 4.0 m bgs in the soil. However, the deepest impacted location (MW22-03) in Parcel A, shows chromium impacts to 4.3 m bgs, with no clean vertical depth established. Soil impacts identified in Parcel A appear to be associated with historical lagoons or settling ponds visible in the 1959 air photo. Within Parcel B, PHC, PAH and/or metals impacts (BH23-05, BH23-07 and BH23-11) did not appear to extend below 3.0 m bgs and horizontal delineation has been achieved in all directions, except to the north. A more precise delineation was recommended to be able to estimate impacted soil volumes.

Based on the finding from the Phase II, AECOM concluded that contaminated soil impact management will be required during construction of the Biosolids Facilities Project and it is recommended that a Construction Environmental Management Plan be prepared during the tendering process to manage contaminated soils found on site. It was also recommended that a Phase III ESA be completed to delineate impacted soil and provide a more accurate estimate of location and estimated volume of impacted soil at the Site. The Phase III will assist in the preparation of a Remedial Action Plan for the site. In particular, additional investigation was recommended in areas where planned construction coincides with the location of known contaminated soils and historical lagoons in Parcel A. The report concluded that given the presence of soil and groundwater impacts, a copy of the report should be submitted to the Director of Manitoba Environment, Climate and Parks (MECP) under *Section 3.1, Part 2 of the Contaminated Sites Remediation Act*.

Stantec Consulting Ltd., (Stantec, 2017), Phase I Environmental Site Assessment, 2230 Main Street, Winnipeg, Manitoba

Stantec Consulting Ltd. (Stantec) conducted a Phase I ESA on the Site in 2016, which also included the operating treatment plant. The report concluded that there was evidence of potential and/or actual environmental contamination based on the historical activities at the Site. Areas of potential environmental concern (APECs) that relate to Parcel A and Parcel B included waste material piles on the northwest corner of Parcel A, the CP rail line, a former landfill located south of Parcel A and suspect fill piles were identified on Parcel B. In 2016, Stantec conducted a geotechnical Investigation for the proposed NEWPCC proposed upgrade project and detected a hydrocarbon odour from the fill material sampled from one of the test holes (TH07 located on the eastern portion of Parcel B) at a depth of approximately 4.3 m below grade, which presented an APEC. No soil samples were submitted for laboratory analysis of potential contaminant since the investigation was for geotechnical purposes.

SNC Lavalin (SNC, 2018), 2018 Supplemental Environmental Site Assessment, City of Winnipeg North End Treatment Facility, 2230 Main Street, Winnipeg, Manitoba

In 2017 SNC Lavalin (SNC) conducted a Phase II ESA which consisted of drilling 12 boreholes which were completed as monitoring wells (17-01 to 17-12). A soil sample from borehole 17-02 (located on the west side of Parcel A close to the rail line) at a depth of 2.5 metres below ground surface (m bgs) showed that the concentration of PHC fractions F2 and F3 and trichloroethylene (TCE) exceeded the applicable guideline values. However, the groundwater samples from the monitoring wells showed that the concentrations of all the analysed parameters were less than the applicable groundwater guideline values (SNC-Lavalin, 2018).

In 2018, SNC conducted a supplemental site assessment to delineate the impacts identified in the 2017 Phase II ESA. The report concluded that concentrations of chromium exceeded applied soil quality guidelines from borehole 18-03 at a depth of 2.9 m to 3 m bgs. Borehole 18-03 is located on Parcel A approximately 40 m east of the property. Concentrations of PHC, VOC and PAH were below applied soil quality guidelines for all soil samples submitted for the Site. The report concluded that the previously identified PHC and TCE soil exceedances identified in 2017 had been vertically and horizontally delineated.

3. Scope of Work

The Phase III ESA was carried out in general accordance with the Canadian Standards Association (CSA) Standard *Z769-00, Phase II Environmental Site Assessment* (CSA 2018). The scope of work for the Phase III ESA included the following tasks:

- Development of a site-specific Safe Work Plan.
- Execution of Drilling:
  - Completion of public utility locates, and one set of private utility locates.
  - Site survey to document existing and proposed borehole locations.
  - Northwest corner of Parcel A: Completion of five boreholes surrounding the impacted boreholes (MW22-03 and BH22-25 identified in the Phase II ESA) in the proposed pond area. Four boreholes were advanced at each corner, and one in the southwest portion of the proposed pond.
  - Parcel B: Advancement of eight boreholes surrounding the previously identified impacted boreholes (BH22-05 and BH22-08 identified in Phase II ESA).
  - Collection of up to three soil samples from each borehole location for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX); PHC Fractions F1-F4 (F1-F4); metals; and PAHs.
  - Collection and analysis of one duplicate sample for every 10 samples analyzed.
  - Preparation of a Phase III ESA report summarizing the results of the soil and groundwater samples.

The borehole locations are shown on the attached Figure 1.

4. Site Overview

4.1 Bedrock Geology

The Winnipeg area straddles the boundary between the Paleozoic and Precambrian outcrop areas. The bedrock geology of the Site consists of Winnipeg Formation sandstones and shales overlain by mottled dolomitic limestones of the Red River Formation, 150 – 175 m in thickness. The Red River Formation consists of the lower and upper Red River Strata (Manitoba Energy and Mines, 1990).

4.2 Site Stratigraphy

The general subsurface stratigraphy encountered during the Phase II and Phase III ESAs consisted of topsoil or clay fill to 0.3 m, underlain by layers of varying thickness of silty clay and clayey silt to the maximum depth of the investigation of 10 m bgs.

4.3 Surface Water Bodies and Drainage

The nearest surface water body to the Site is the Red River located about 1 km east of the Site. Based on observations of the general topography, surface water drainage at the Site is likely to the southwest.

5. Environmental Quality Guidelines

5.1 Regulatory Framework

The Province of Manitoba currently references documents from the Canadian Council of Ministers of the Environment (CCME) and Ontario Ministry of the Environment (Ontario MOE) as Primary and Secondary standards under the *Contaminated Sites Remediation* (CSR) *Act*. The applicable standards are summarized below.

Primary standards:

- Canadian Environmental Quality Guidelines (CEQG), Canadian Council of Ministers of the Environment (CCME) (most recent online version).
- Canada-Wide Standards (CWS) for Petroleum Hydrocarbons (PHC) in Soil, CCME (CCME) (most recent online version).

Secondary standard:

- Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Ontario Ministry of the Environment, April 15, 2011.

The CCME guidelines and CWS standards utilize a risk-based approach allowing limited modification of the generic soil quality guidelines (SQGs) in light of prescribed site-specific factors affecting contaminant mobility and receptor characterization. In other words, in cases where soil concentrations exceed the generic guidelines, an analysis of risk factors specific to the site in question is acceptable in order to allow for a realistic assessment of the actual risks at the site. Using this approach, SQGs are selected based on a step-through procedure eliminating the exposure pathways that do not apply to receptors in the vicinity of the site and finally selecting the appropriate and most conservative guideline remaining after the elimination procedure. The guidelines are protective of both human and environmental receptors.

This approach was undertaken for the Site in order to provide a more realistic assessment of human and environmental risks at the Site. The applicable site-specific factors at the Sites and the rationale for the use of CCME Tier II SQGs for BTEX and CWS Tier 1 SQGs for PHC fractions F1 to F4 are described in the subsections below and in Table 5-1.

In the CCME guidance documents, surface soil extends from ground surface to 1.5 m bgs, and subsurface soil extends below 3.0 m bgs, with classification of soil between 1.5 m and 3.0 m bgs up to the discretion of the provincial regulator. MECP has defined surface soil as extending from surface to 1.5 m bgs, and subsoil including materials below 1.5 m bgs. These definitions have been applied in this document. Where appropriate, the ecological soil contact pathway has been removed from comparison with soil samples collected from depths greater than 1.5 m bgs.

As adopted by MECP, soil quality guidelines for benzene use a lifetime incremental cancer risk of 10^{-5} for human health exposure.

The waste disposal ground acceptance criteria are based on the CCME and CWS for PHC in Soil for fine-grained surface soil for industrial land use sites, the environmental health guideline, and the soil contact pathway as outlined in the MECP guidance document Criteria for Acceptance of Contaminated Soil at Waste Disposal Grounds guidance document (MECP, 2016).

5.1.1 Land Use

The Site is located within the City of Winnipeg and zoned as M1-M3 Industrial (City of Winnipeg, 2022). Industrial land use EQGs were used as the Site is utilized as a wastewater treatment plant for the City of Winnipeg and is fenced off from the public.

5.1.2 Grain Size

Soil grain size analysis was not conducted during the Phase III ESA but soil observed during the Phase III ESA was consistent with what was reported in the Phase II ESA. During the Phase II ESA activities completed in November 2022, clay and silt units were observed beneath the Site to a depth of 10 m below grade and soil samples were submitted to the laboratory for grain size analysis. The results indicated that soil was generally fine-grained; therefore, the soil type governing the transport and fate of contaminants in the surface and subsurface is fine-grained.

5.1.3 Human Health and Ecological Exposure Pathways

The following subsections and Table 5-1 summarize applicable site-specific factors at the Site and the rationale for the use of EQGs for BTEX, PHC F1-F4, and PAHs.

5.1.3.1 Potable Groundwater

Potable water for the Site and surrounding area is provided by the City of Winnipeg via a piped municipal distribution system fed by Shoal Lake located approximately 145 km southeast of the city. A search of the Groundwater Information Network identified one well (Borehole Data Provider ID:116777) within 500 m of the Site and the well was classified as observation well (GIN, 2021). The well search did not identify any domestic or industrial water wells on the Site or within 500 m of the Site. As the Site does not currently require a water source and there are clay and/or silty clay soils to at least 10 m below grade, the potable groundwater pathway is not considered to be applicable to the Site.

5.1.3.2 Indoor Air Vapour Inhalation

The indoor vapour inhalation pathway is applicable to any site that has a building or where PHC contamination has the potential to be within 30 m of a building. The Site currently has several buildings with slab-on-grade foundation and the neighbouring properties have buildings where the vapour inhalation pathway is applicable. As such, the vapour inhalation pathway is considered an applicable pathway for the Site and the surrounding properties.

5.1.3.4 Freshwater Aquatic Life

The freshwater aquatic life pathway is considered applicable if contaminants of concern are located within 500 m of a surface water body (Federal Contaminated Sites Action Plan, 2016). the closest surface water body to the Site is the Red River, which is located approximately 1 km east of the Site. Also, given the presence of fine-grained clay and silt material at the Site and the distant to the Red River, which will make it highly unlikely that contaminants of concern will migrate 1 km and reach the Red River before being naturally attenuated.

5.1.3.5 Ecological Soil Contact

The ecological contact pathway is based on direct contact by plants and soil invertebrates. According to the CWS Technical Supplement Document, the soil contact exposure pathway may be eliminated for depths below 3 m with the provincial regulator to dictate how to address soils between 1.5 m and 3 m bgs (CCME 2008). According to MECP, surface soil is defined as soil at or above 1.5 m bgs with subsurface soil defined as soil below 1.5 m bgs, meaning the ecological soil contact exposure pathway may be eliminated below a depth of 1.5 m provided there are other applicable exposure pathways. The ecological contact pathway is applicable to the Site up to a depth of 1.5 m bgs.

5.1.3.6 Irrigation/Livestock Watering

The irrigation or livestock watering pathway does not apply since the Site is located within the City of Winnipeg and is not used for agricultural purposes.

Table 5-1: Exposure Pathway Summary for Soil

Exposure Scenarios	Pathway /Receptor	Tier 2 Considerations	Applies (Y/N)	Rationale/Notes
Human Health	Soil Ingestion	Pathway required direct exposure to soil and is applicable to all soil shallower than 1.5 m bgs. Direct contact below 1.5 m bgs would apply during activities where subsoil is exposed, such as during construction. Pathway may be eliminated below 1.5 m bgs. provided there are Site conditions prohibiting the exposure of the subsoil, including excavation and stockpiling of subsoil at the surface.[a]	Y	The soil ingestion and dermal contact pathways are considered applicable to the Site.
	Dermal Contact		Y	
	Soil Inhalation	Applies to all contaminants, but pathway maybe eliminated for volatile organic compounds, as volatile organic compounds (VOCs) are not typically associated with particulate matter in air.[b]	Y	As PAH impacts (non-VOCs) are present, the soil inhalation pathway is considered applicable to the Site.
	Indoor Vapour Inhalation, including basement and slab-on-grade	Pathway is applicable to any site that has a building. Unless precluding factors, including preferential migration pathways or a low permeability surface cap, buildings would need to be located at least 30 m from the Site. May be eliminated if there are no buildings, but site controls restricting the future construction of a building would be required.[a]	Y	The Site is currently used for the City of Winnipeg North End Waste Treatment Facility and buildings exist on the Site (although the Parcel B is a vacant), the vapour inhalation pathway is used for this assessment so this property will not be restricted on future land use.
	Off Site Migration	Based on wind and water transport of soil from a commercial or industrial site to an adjacent, more sensitive site, such as agricultural or residential. May not be applicable for volatile organic compounds, which are not typically associated with wind and water transport of soil particles.[b]	Y	Site is Industrial and neighbouring properties are commercial, agricultural and residential.
	Soil for Protection of Potable Groundwater	May be excluded if aquifer is not suitable as a potential source for potable water use. Considerations to determine if pathway can be excluded include: - Current source of water at the site; - Existing water wells, typically within 500 m of the site; - Depth below grade of usable aquifer; - Yield of usable aquifer; and - Location of usable surface water sources for potable water.[a] Additional considerations to exclude the pathway include: - Municipal bylaws prohibiting water wells for potable water; - Naturally non-potable shallow groundwater; - No hydrological connection between impacted soil and groundwater aquifer with sufficient recharge for potable water use.[b]	N	As described above in Section 5.1.3.1, the Site is located within the City of Winnipeg where potable water is provided via a piped municipal distribution. There is one observation well identified within 500 m of the site and no domestic or industrial use wells. The potable groundwater pathway has not been considered applicable for the Site.
	Produce, Meat and Milk	Applies to agricultural and residential land use as an indirect pathway through food-chain contamination/bioaccumulation during production and consumption of produce, meat, and milk.[b]	N	The Site is not used for Agricultural purposes
Ecological	Ecological Soil Contact	Pathway is applied for soils with a depth shallower than 1.5 m bgs. Between 1.5 m and 3 m, ecological soil contact may be required depending on the jurisdiction. The pathway may be eliminated for soil below 3 m.[a] MECP defines surface soil as soil at or above 1.5 m bgs with subsurface soil defined as soil below 1.5 m bgs[d]. Therefore, ecological soil contact may be eliminated below a depth of 1.5 m bgs provided the site maintains 1.5 m of cover.	Y	The ecological soil contact pathway has been excluded for depths greater than 1.5 m BGS in this assessment
	Soil (and Food) Ingestion by Livestock/Wildlife	Includes resident and mobile livestock and wildlife, as well as secondary and tertiary consumers where a substance may bioaccumulate[b]. May be eliminated if the site is fully capped or paved [a].	N	The soil ingestion pathway is not considered applicable to the Site.
	Nutrient and Energy Cycling	Based on the ability of the soil to support plant life through nutrient and energy cycles such as decomposition, respiration, and organic nutrient cycles as a component of the ecological function of soil. Applies to all land uses and can be used as a check mechanism.[b]	Y	The nutrient and energy cycling pathway is considered applicable to the Site.
	Off Site Migration	Based on wind and water transport of soil from a commercial or industrial site to an adjacent, more sensitive site, such as agricultural or residential. May not be applicable for volatile organic compounds, which are not typically associated with wind and water transport of soil particles.[b]	Y	Surrounding land is used for agricultural, commercial and residential purposes.
	Soil for Protection of Groundwater for Aquatic Life (including Freshwater Life[1])	It is expected that the surface water body is located at least 10 m away from the impacted area. May be eliminated if: - No permanent surface water bodies are present, typically within 500 m of the site; and - There is no hydrological connection between the groundwater at the site and the surface water body (groundwater does not discharge to a surface water body).[a] Transient/short term surface water bodies may also need to be considered if they have the ability to support aquatic life. With supporting data, the guideline value may be modified at Tier 2 to account for dilution.[a]	N	The Red River is located approximately 1 km east of the Site. No wetlands are located within 500 m of the Site. As a result, the freshwater aquatic life pathway has not been considered.
	Soil for Protection of Water for Livestock and Wildlife Watering/Irrigation	Applicable to agricultural land use where there is a suitable water source, including groundwater or surface water.[e] It is expected that the water source could be located immediately adjacent to the edge of the impacts (no separation distance for dilution). Considerations to determine if pathway can be excluded include: - Location of existing permanent and seasonal water sources (ground and surface), typically within 500 m of the site; - Depth below grade of usable water source; - Yield of usable water source; and - Hydrological connection between impacts and water source.[a]	N	The site is not used for agricultural purposes. Additionally, As described above in Section 5.1.3.1, there is one observation well identified within 500 m of the site. Considering the site is industrial, there is no presence of livestock or use wells and with no potential for future well installations, the irrigation/livestock groundwater pathway has not been considered applicable for the Site.
Other	Management Limits	Management limits always apply, regardless of depths of impact if the ecological pathway has been removed, and takes into account: - Free phase formation; - Exposure of workers in trenches to PHC vapours; - Fire and explosive hazards; - Effects on buried infrastructure; and - Aesthetic consideration.[a]	Y	Cannot be removed.
	Interim Soil Quality Criteria	Interim value as the data is insufficient to calculate a provisional or Soil Quality Guideline protective of human health and/or the environment. Use it at discretion. Consultation with other jurisdictions is recommended.[c]	Y	Applicable where no new guideline values have been derived.

Exposure Scenarios	Pathway /Receptor	Tier 2 Considerations	Applies (Y/N)	Rationale/Notes
	Provisional Soil Quality Guideline	Provisional value as the data is insufficient to calculate a Soil Quality Guideline protective of human health and/or the environment. Use it at discretion. Consultation with other jurisdictions is recommended.[(c)]	Y	Applicable where no new guideline values have been derived.

Notes:

[1] Freshwater is water with a total dissolved salt content ≤ 1,000 mg/L, marine water is water with a total dissolved salt content > 5,000 mg/L[(f)]

[(a)] Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil, User Guidance (CCME 2008).

[(b)] A Protocol for the Derivation of Environmental and Human Health Soil Quality Guidelines (CCME 2006).

[(c)] Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health – Polycyclic Aromatic Hydrocarbons (CCME 2010).

[(d)] Manitoba Criteria for BTEX in Investigation Results (MCCC 2016).

[(e)] Alberta Tier 1 Soil and Groundwater Remediation Guidelines (AEP 2019a).

[(f)] A Protocol for the Derivation of Water Quality Guidelines for the Protection of Aquatic Life (CCME 2007)

6. Field Program and Methodology

6.1 Health and Safety Plan Development

A site-specific HASP that complied with all applicable legislation and City of Winnipeg safety requirements was completed. A copy of the HASP was provided to all field personnel and subcontractors for their review and signature prior to the commencement of field activities each day. A health and safety tailgate meetings were held at the beginning of each workday to review issues of concern identified in the HASP, issues of concern identified during the meeting, and anything that may have been identified that was not previously included in the HASP. A daily Task Hazard Assessment (THA) was completed to record any of the new or changed hazards that were identified or unique to a specific location.

6.2 Field Schedule

A subsurface drilling investigation was conducted at the Site between May 30 and June 1, 2023. A Site plan showing the locations of the boreholes is included as Figure 1. Table 6-1 below outlines the field schedule for this assignment.

Table 6-1: Field Schedule

Date	Field Work Description
May 26, 2023	Site Survey and Utility locates
May 30 – June 1, 2023	Drilling and soil sampling (13 boreholes)

6.3 Subsurface Clearance

Prior to the subsurface drilling investigation, AECOM personnel obtained utility clearances from representatives of applicable utility companies and retained a separate private utility locator (Structure Scan Inc.) to locate all utilities in the areas of investigation at the Site. The Site work area and investigation areas were initially surveyed and staked out by AECOM. Structure Scan provided the locating/marking of utility lines at the Site and provided a copy drawing to AECOM of all findings. An Underground Utilities & Subsurface Installation Clearance Checklist was completed by AECOM to confirm all pre-disturbance efforts were accomplished.

6.4 Borehole Drilling and Groundwater Well Installation

The Phase III ESA consisted of advancing 13 boreholes (BH23-01 to BH23-13) between May 30 and June 1, 2023, using a direct push rig operated by Maple Leaf Drilling of Winnipeg, MB. Maple Leaf Drilling provided a drill rig capable of advancing a continuous, direct push probe for sample collection and support equipment with operators to advance the boreholes at the Site. The boreholes were advanced to depths of 6.1 m bgs. The boreholes were backfilled with bentonite to the top of the hole. The borehole locations are shown on Figure 1. Selected photographs of the drilling activities are included in Appendix A and Borehole logs are provided in Appendix B.

6.4.1 Soil Sampling and Logging

The following methods were applied to obtain, screen, and package soil for analytical testing.

- Soil samples were collected from 0.083 m diameter discrete sampling tubes of the direct push drilling rig at approximately 0.5 m intervals, at stratigraphic boundaries, and at locations where potential chemical impacts were suspected and/or observed to a maximum depth of 6.1 m bgs.
- Collected soil samples were trimmed, using stainless steel sampling utensils, and sealed in individual plastic bags for field testing and potential laboratory analysis as outlined below:
- Soil samples for field testing were sealed in a bag with an equal amount of air. The sealed bags were agitated for several seconds and allowed to equilibrate temperature prior to field testing. Once the samples temperature

equilibrates, the probe of an RKI Eagle was inserted through the side of the bag to sample the headspace over the soil and provide a relative indication of CHVs present in the soil sample. The RKI Eagle was configured to exclude methane from its analysis. Field vapour measurements are provided on the borehole logs in Appendix B.

- Soil samples were selected for laboratory analysis based on CHV measurement results, soil stratigraphy, visual observations, and expected contaminant depth. The selected soil samples were placed into laboratory-supplied glass vials prefilled with methanol preservative using a dedicated TerraCore™ sampling device and laboratory-supplied glass sampling jars that were tightly sealed with a Teflon-lined lid, then placed in a cooler with ice to reduce temperature fluctuations prior to delivery. All samples were submitted to the ALS Laboratories in Winnipeg, for analysis of BTEX, PHC F1-F4, PAHs and metals.
- Soil cuttings were placed in large soil bags and remain onsite.

To prevent cross-contamination, tools used to trim soil samples were cleaned between use and new nitrile gloves were used to collect each soil sample. The boreholes were logged in general accordance with ASTM D2466 of the USCS based on observations from the discrete sampling tubes containing soil cores obtained from each borehole, as well as the behaviour of the drill rig. The logging included visual classification of soils, as well as interpretation of subsurface moisture, groundwater conditions, discolouration, and odours. These observations are presented on the borehole logs in Appendix B.

6.5 Surveying

The proposed borehole locations were staked by AECOM prior to the drilling investigation. The survey information, consisting of northing, easting, and elevations for ground level at each borehole location were obtained. The survey results (coordinates, ground elevation) are shown on the borehole logs in Appendix B.

6.6 Quality Assurance and Quality Control Program

6.6.1 AECOM

To confirm that the sampling and analytical data collected was interpretable, defensible, and comparable, a quality assurance (QA) / quality control (QC) program was implemented for the project. The QA/QC measures were taken during both the collection and analysis of samples.

Quality control measures used in the collection, preservation, shipment, and analysis of environmental samples included the following:

- Sampling techniques were performed in accordance with standard AECOM protocols.
- Rigorous field notes were taken during the investigation.
- All samples were kept cool prior to shipment to the laboratory.
- Samples were assigned unique sample control number and transported under chain of custody procedures.
- The analytical laboratory had proficiency certification issued by the Standards Council of Canada (SCC) for the specific analyses conducted.

QA measures established for the site assessment included collection of duplicate field samples at the rate of approximately 10%, with preferential analysis of duplicate sample pairs, where appropriate. A duplicate field sample

consisted of a second sample collected from the same location as the primary sample and submitted to the analytical laboratory under a separate label.

The relative percent difference (RPD) between duplicate sample results was used to assess overall sampling precision. The RPD is a measure of the variability between two duplicate analyses and is calculated by the following equation:

$$RPD = 100 \times \frac{(x - y)}{(x + y)/2}$$

Where x is the primary result and y is the duplicate result.

The duplicate field results are considered acceptable if the RPD was less than the alert criteria, which is equivalent to twice the laboratory RPD QC limit. The alert criteria varies based on the analytical parameter and sample matrix, with the alert criteria for soil generally being 60% for PHC F1, 80% for PHC F2-F4, and 100% for BTEX and PAHs, and the alert criteria for groundwater generally being 60% for BTEX, PHC F1-F2, and PAHs.

Due to the uncertainty of results near the laboratory reportable detection limit (RDL), an alternative check for QA was completed for duplicates where concentrations were also less than five times the laboratory RDL. This alternative check calculated the difference between the sample and duplicate results, with the results considered acceptable if the difference between the results was less than two times the RDL.

Additional QA/QC measures completed during groundwater activities included the generation of a trip blank. The trip blank was created by the laboratory and accompanied the samples during the associated field activities to assess for potential cross-contamination of impacts during shipping. As the water supplied by the laboratory did not contain any of the contaminants of concern, any detectable concentration of a contaminant may indicate potential QA/QC issues during shipping and/or analysis. A field blank was created in an effort to evaluate the cleanliness of groundwater sampling equipment and the potential for cross contamination by pouring inorganic free water provided by the laboratory through the bailer and collecting the water in laboratory supplied containers.

6.6.2 Laboratory

ALS Laboratory has been evaluated and accredited by the Standards Council of Canada (SCC) for the required environmental analysis. ALS laboratory completed QA/QC activities that included laboratory duplicates, matrix spikes, method blanks, surrogate spike analysis, QC standard, calibration check samples, and standard reference material analysis to determine analytical accuracy.

Quality control limits for these items are defined by the analytical method utilized by the laboratory. ALS Laboratory routinely applies QA/QC protocols including the use of standard operating procedures, adhering to principles of good laboratory practice and using standardized, approved scientific methodologies. Details of the internal QA/QC procedures and methodologies employed ALS Laboratory are presented in the laboratory reports provided in Appendix C.

7. Results

Field measurements and observations as well as laboratory results are summarized in the following subsections.

7.1 Field Observations

7.1.1 Stratigraphy

The general subsurface stratigraphy encountered during the Phase III ESA consisted of topsoil or clay fill underlain by varying layers of silty clay and clayey silt to the maximum depth of the investigation (6.1 m bgs). Grain size

analysis for six select silty soil samples on previous Phase II ESA indicated that the dominant silt soils have fine-grained texture.

During the 2023 investigation event, no staining was noted in any of the boreholes, however slight PHC odours were noted in boreholes BH23-13 (2.4 – 2.5 m bgs) in Parcel A.

A detailed description of the soil stratigraphy encountered during the field investigation is included in the borehole logs in Appendix B.

7.1.2 Combustible Vapour Measurements

Field CHV measurements conducted on the soil samples collected ranged from non-detect to 50 parts per million (ppm). The results of the field CHV analyses are summarized on the borehole logs in Appendix B.

7.2 Laboratory Analytical Results

Based on the field CHV measurements, soil stratigraphy or odour, a total of 44 soil samples including four field duplicate soil samples were selected and submitted for laboratory analysis of BTEX, PHC F1-F4, PAHs and metals. The results of the laboratory analyses for the soil samples are summarized in the following sections. Copies of the analytical reports are also included in Appendix C.

7.2.1 Petroleum Hydrocarbons

Based on the results of the laboratory analyses, the soil samples that exceeded the applied SQG for BTEX, PHC fractions F1-F4 are summarized in the following tables:

Table 7-1a: Summary of 2023 Soil Samples Exceeding Applied Soil Quality Guidelines – Petroleum Hydrocarbons

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
BH23-05-03	Parcel B - centre	1.4 - 1.6	PHC F2 PHC F3 PHC F4	6,630 27,100 8,040	260 2,500 6,600
BH23-04-04	Parcel A - northwest	1.9 – 2.1	PHC F3	8,390	5,000
BH23-13-05	Parcel A - northwest	2.4 – 2.6	PHC F3	9,670	5,000

Table 7-2b: Summary of 2022 Soil Samples Exceeding Applied Soil Quality Guidelines – Petroleum Hydrocarbons

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
BH22-08	Parcel B - centre	1.4 - 1.5	PHC F2 PHC F3	3,890 19,800	1,000 5,000
BH22-25	Parcel A - north	2.6 - 2.7	PHC F3	6,380	5,000
MW22-03	Parcel A - northwest	1.8 - 1.9	PHC F3	6,830	5,000
		1.8 - 1.9 (duplicate)	PHC F3	11,800	5,000
		2.6 - 2.7	PHC F3	5,880	5,000

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
MW22-04	Parcel A - centre	2.9 - 3.0	PHC F3	5,660	5,000

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10-5 incremental risk

Concentrations of all other analyzed PHC parameters submitted for laboratory analyses were reported to be less than the applied SQGs or less than the laboratory reportable detection limits (RDL).

The laboratory analytical results for PHCs are presented in Table 1. Figure 2 summarize the borehole locations and soil samples exceeding applied SQGs.

7.2.2 Polycyclic Aromatic Hydrocarbons

Based on the results of the laboratory analyses, the soil samples that exceeded the applied SQG for PAHs are summarized in the following tables:

Table 7-3a: Summary of 2023 Soil Samples Exceeding Applied Soil Quality Guidelines – Polycyclic Aromatic Hydrocarbons

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
BH23-11-03	Parcel B - centre	1.4 - 1.6	B[a]P TPE	6.0	5.3
			Benzo(a)pyrene	4.05	1.4

Table 7-4b: Summary of 2022 Soil Samples Exceeding Applied Soil Quality Guidelines – Polycyclic Aromatic Hydrocarbons

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
BH22-08	Parcel B - centre	1.4 - 1.5	B[a]P TPE	15	5.3
			Acenaphthylene	0.366	0.17
			Benz(a)anthracene	15.2	10
			Benzo(a)pyrene	12.5	1.4
			Benzo(b+j)fluoranthene	16.1	10
			Chrysene	13.5	9.6
MW22-04	Parcel A - centre	2.9 - 3.0	B[a]P TPE	6.91	5.3
			Benzo(a)pyrene	4.69	1.4

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Fine grained Soil, Human Health Guidelines 10-5 incremental risk

B[a]P TPE = Benzo(a)pyrene total potency equivalents

Concentrations of all other analyzed PAH parameters submitted for laboratory analyses were reported to be less than the applied SQGs or less than the laboratory RDL.

The laboratory analytical results for PAHs are presented in Table 2 and Figure 2 summarize the borehole locations and soil samples exceeding applied SQGs.

7.2.3 Metals

Based on the results of the laboratory analyses, the soil samples that exceeded the applied SQG for metals are summarized in the following table:

Table 7-5a: Summary of 2023 Soil Samples Exceeding Applied Soil Quality Guidelines – Metals

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
BH23-05-10	Parcel B - centre	4.9-5.1	Arsenic	14.1	12
BH23-07-03	Parcel B - centre	1.4-1.6	Arsenic	12.6	12
			Chromium	729	87
BH23-02-10	Parcel A - northwest	2.9-3.1	Arsenic	15.1	12
BH23-04-04	Parcel A - northwest	1.9-2.1	Arsenic	16.4	12
			Chromium	1570	87
			Copper	483	91
			Lead	615	600
			Zinc	1610	410
BH23-13-05	Parcel A - northwest	2.4-2.6	Chromium	340	87
			Copper	128	91
			Zinc	441	410

Table 7-6b: Summary of 2022 Soil Samples Exceeding Applied Soil Quality Guidelines – Metals

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
BH22-08	Parcel B - centre	1.4 - 1.5	Chromium	513	87
			Copper	302	91
			Zinc	722	410
BH22-25	Parcel A - north	2.6 - 2.7	Arsenic	14.9	12
			Chromium	1,550	87
			Copper	511	91
			Lead	675	600
			Nickel	92.5	89
			Silver	45.7	40
			Zinc	1,710	410
MW22-03	Parcel A - northwest	1.8 - 1.9	Arsenic	18.6	12
			Cadmium	22.2	22
			Chromium	1,910	87
			Copper	551	91
			Lead	677	600
			Nickel	107	89
			Silver	56.4	40
			Zinc	1,710	410
		1.8 - 1.9 (duplicate)	Arsenic	13.6	12
			Chromium	1,120	87
			Copper	339	91
			Zinc	1,110	410
		2.6 - 2.7	Arsenic	14.2	12
			Chromium	959	87
			Copper	293	91
			Zinc	964	410
		4.2 - 4.3	Chromium	91.1	87
MW22-04	Parcel A - centre	2.9 - 3.0	Chromium	485	87
			Copper	356	91
			Zinc	970	410
BH22-05	Parcel B – north, centre	1.5 - 1.6	Chromium	138	87

Borehole ID	Area	Depth (m)	Parameter	Analytical Result (mg/kg)	Applied SQG[a] (mg/kg)
BH22-15	Parcel A - centre	2.4 - 2.5	Chromium	132	87
BH22-16	Parcel A - centre	2.9 - 3.0	Arsenic	13.3	12
			Chromium	781	87
			Copper	279	91
			Zinc	969	410
BH22-18	Parcel A - centre	2.4 - 2.5	Chromium	144	87
MW22-05	Parcel A – east, centre	2.0 - 2.1	Chromium	90.7	87
BH22-14	Parcel B – northeast	0.9-1.0	Electrical Conductivity	5.58 [b]	4 [b]

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, fine graine
[b] Electrical Conductivity results in dS/m - deciSiemens per metre

Concentrations of all other analyzed metals parameters submitted for laboratory analyses were reported to be less than the applied SQGs or less than the laboratory RDL.

Due to the elevated levels of chromium detected in the soil samples, sample BH23-07 at 1.4-16 m bgs was submitted for additional analysis of hexavalent chromium. Results indicated hexavalent chromium concentrations of 0.24 mg/kg, which is below SQGs (1.4 mg/kg). However, it should be noted analysis was completed after recommended laboratory hold times.

The laboratory analytical results for metals are presented in Table 3 and Figure 2 summarize the borehole locations and soil samples exceeding applied SQGs.

7.3 Quality Assurance and Quality Control

7.3.1 Duplicate Analyses

7.3.1.1 Soil Duplicates

Four duplicate soil samples were collected from the 13 drilled boreholes and analyzed for the following parameters: BTEX, PHC F1-F4, and metals. The parent and duplicate samples are listed below:

- BH23-13-08 and duplicate DUP-01
- BH23-12-06 and duplicate DUP-02
- BH23-08-10 and duplicate DUP-03
- BH23-07-06 and duplicate DUP-04

Where calculable, the RPD values for the duplicate soil samples were within the acceptable primary alert and alternative alert criteria. RPD values could not be calculated for PHC and PAH parameters because the parent and duplicate results were below laboratory reportable detection limits. The RPD calculations for the field duplicate soil samples and the acceptable alert criteria are presented in Tables 4, 5 and 6.

7.3.2 Laboratory Quality Assurance and Quality Control

Laboratory quality assurance testing, such as matrix spike, spiked blanks, method blanks and RPD were within acceptable laboratory limits for soil and groundwater analyses. Further information on these results is provided in Appendix C.

In summary, the results of the QA/QC analysis indicated no significant QA/QC issues that would affect the overall results of this report. The data collected during the investigations are considered reliable.

8. Discussion

During the Phase III ESA work completed in May and June 2023, PHC, PAH or metals impacts were identified in six boreholes extending from 1.4 m bgs to depths of approximately 5.1 m bgs, with limited delineation of horizontal extent of contaminants. Vertical delineation or clean depths have been established in most boreholes except for the arsenic detected in BH23-05 between 2.3 – 3.1 m bgs. However, it was observed during the Phase II ESA work completed in October and November 2022, that PHC, PAH or metals impacts were identified in four boreholes (BH22-25, MW22-03, BH22-05 and BH2208 located with the Phase III ESA area), which extended from 1.4 m bgs to depths of approximately 3.0 m bgs with limited horizontal delineation. Vertical delineation was established in all impacted boreholes, except for two – BH22-25 and MW22-03, both located in the northwest portion of Parcel A. BH22-25 reported metals and PHC F3 impacts at 2.6 – 2.7 m bgs, and MW22-03 had metals impacts at 4.2 – 4.3 m bgs. Considering the decrease in number of parameter exceedances and concentrations between samples at 2.6 – 2.7 m bgs and 4.2 – 4.3 m bgs in MW22-03, delineation could likely be reached at 5.0 m bgs in this borehole.

Parcel A

In the northwest portion of Parcel A, it is expected that PHC and metals soil impacts generally extend from approximately 1.5 m bgs to 3.0 m bgs, with a deeper pocket in the northwest corner in the area of MW22-03 to 4.5 m bgs. Soil results indicate that the northwest and southeast corners had concentrations below applied guidelines. BH23-13 located in the southwest portion of the investigated area had concentrations of PHC F3 and metals (chromium, copper and zinc) above SQGs at 2.4 – 2.6 m bgs. BH23-04 had reported PHC F3 and metals (arsenic, chromium, copper, lead, zinc) impacts and it is suspected that the impacts extend outside of the southwest corner of the proposed retention pond boundary. However clean depths were established at 2.9 m bgs at BH23-04. It is unknown how far the PHC F3 and metals impacts extend to the south as PHC F3 and metals exceedances were reported during the previous Phase II ESA in MW22-04, located south of the road.

BH23-02, located in the northeast corner had arsenic concentrations (15.1 mg/kg) above CCME guidelines (12 mg/kg) at a depth of 2.9 – 3.1 m bgs. At these depths, these concentrations are not considered to represent a risk to the Site since those guideline values were based on the soil ingestion pathway, which are applicable to surficial soil guidelines (0-1.5 m bgs). It should be noted, that during construction this soil will be considered contaminated when it is brought to the surface. Once excavation is complete, if arsenic concentrations remain along the walls of the excavation at this concentration and subsoil depth (>1.5 m bgs), this does not present a concern to the Site and would not warrant further excavation.

BH23-03 located in the northwest corner of Parcel A had samples with concentrations below applied guidelines indicating the impacts reported in MW22-03 do not extend to the northwest, however it is unknown how far they extend to the north.

Impacted boreholes are located within a historical lagoon or settling pond that were present in the 1959 air photo for the Site, which may have contributed to the soil impacts. Figure 3 shows the location of the boreholes overtop of the 1959 air photo outlining the location of historical infrastructure on Site. Five of the eight boreholes located within the historical lagoon footprint (including the boreholes drilled as part of the Phase II ESA) show concentrations exceeding soil quality guidelines. Impacted soils within the proposed retention pond footprint are identified at the southwest and the northeast corners and horizontal extent is unknown. The presence of these impacted soils must be taken into account when planning construction work in the area as the soil will require specific handling and disposal specifications. From approximately surface to 1 m bgs within the proposed retention pond area is considered non impacted and could be stockpiled for sampling as potential clean overburden during construction, however, an estimated volume of about 15,750 m^3 between 1 m – 3.5 m bgs are considered impacted. Figure 4 shows the estimated area of impacted soil in the northwest portion of Parcel A.

Parcel B

Within Parcel B, PHC, PAH and/or metals impacts were reported in the boreholes located on the north and south side of the road in the centre of the Parcel. On the north side of the road, the chromium impact reported during the Phase

II ESA has been delineated to the east, south and west, however BH23-11 drilled on the north side, had reported impacts of B(a)P TPE at 1.4 – 1.6 m bgs and it is unknown how far they extend north. Both the chromium impacts and PAH impacts were reported at approximately 1.5 m bgs with clean depths established at the next sample at approximately 3.0 m bgs. Using a depth of 3.0 mbgs and assuming and the top 1 m of soil is clean and impacts extend to the north property boundary, a high-end estimate of impacted soil on the north side of the road is approximately 3,000 m^3.

On the south side of the road, the PHC F2 and F3, PAH and metals impacts that were reported in the Phase II ESA at BH22-08 have been delineated to the north and south, however results indicated the PHC impacts extend further east. BH23-05 had concentrations of PHC F2 and F3 at 1.4 – 1.6 m bgs and arsenic at 4.9 – 5.1 m bgs above applied guidelines. If excavation in the vicinity of BH23-05 do not reach a depth of 4.9 – 5.1 m bgs, the arsenic concentrations can remain in place and would not be considered to present a risk to the Site. If the soil is excavated and brought to the surface, it would require contaminated soil disposal. BH23-07 had concentrations of arsenic and chromium at 1.4 – 1.6 m bgs above applied guidelines and clean depths were established at approximately 3.0 m bgs. A high-end estimate of the volume of impacted soil for the south portion of Parcel B is 2,600 m^3. It should be noted that although the extent of contamination has been achieved on the south portion of Parcel B, the nearest boreholes providing clean boundaries are located approximately 30 - 50 m away and impacts may extend further east than the estimated extent of soil impacts shown on Figure 4. The following assumptions are used in calculating the estimated volume of impacted soil:

- The top 1 m of soil is not impacted.
- Impact depth is 3.0 m.
- Halfway to the nearest clean boreholes define the extent of impacts; and
- The excavation in Parcel B will not reach depths of 4.9 m and the arsenic impact at BH23-05 at 4.9 – 5.1 m bgs can remain in place.

Vertical delineation, or clean depth boundaries, has been established in Parcel B and the horizontal extent has been achieved to the east, west and south, but not to the north.

Due to the very high concentrations of chromium reported in (BH23-07, BH23-04 and BH23-13), sample BH23-07 at 1.4 – 1.6 m bgs was submitted for additional analysis of hexavalent chromium. Results indicated hexavalent chromium concentrations of 0.24 mg/kg, which is below SQGs (1.4 mg/kg). However, it should be noted analysis was completed after recommended laboratory hold times. Hexavalent Chromium is a cancer inhalation concern, which is important to know if there is construction occurring during development of the site. Although hexavalent chromium concentrations in this sample are below guidelines, this compound was detected at the Site. Other contaminants of concern which can pose a health risk during construction that are in concentrations exceeding guidelines at the Site include lead and arsenic. Special care should be taken during construction / excavation to protect workers such as keeping the dust down during excavation, workers wearing half mask respirators to prevent inhalation of soil particles as well as washing work clothes.

9. Conclusions

The Phase III ESA conducted at the Site identified PHC, PAH and metals impacts in the soil. In most areas across the Site, impacts did not extend below 3.1 m bgs in those soils sampled.

In the northwest portion of Parcel A, it is expected that PHC and metals soil impacts generally extend from approximately 1.5 m bgs to 3.0 m bgs, with a deeper pocket in the northwest corner in the area of MW22-03 to 4.5 m bgs. It is suspected that PHC F3 and metals impacts extend to the north and south and southwest outside of the proposed retention pond boundary. Arsenic impacts were detected at 2.9 – 3.1 m bgs in BH23-02. After excavation and construction if arsenic impacts remain along the walls at this depth (> 1.5 m bgs), it is not considered to present an environmental risk to the Site. Soil impacts identified in Parcel A appear to align with what appears to be historical lagoons or settling ponds visible in the 1959 air photo. From approximately surface to 1 m bgs within the historical lagoon area is considered non impacted and could be stockpile for sampling as potential clean overburden during

construction, however, an estimated volume of about 15,750 m^3 between 1 m – 3.5 m bgs are considered impacted. The impacted area may extend further to the north and northeast and south southwest and extend deeper than 3.0 m bgs in BH 22-25.

In Parcel B, the impacts were identified around 1.4 – 1.6 m except for arsenic in BH23-05 which was reported at 4.9 – 5.1 m. As discussed above, if excavation does not extend to this depth in the vicinity of BH23-05 during construction, the arsenic concentrations can remain at this depth and would not be considered to present a risk to the Site. Within Parcel B, PHC, PAH and/or metals impacts did not appear to extend below 3.0 m bgs (except arsenic in BH23-05) and the horizontal extent has been delineated in all directions, except to the north. A high-end volume estimate of impacted soil on the north portion of Parcel B is approximately 3,000 m^3 assuming impacts extend to the north property boundary, and on the south portion of Parcel B volume is estimated at 2,600 m^3, assuming halfway to the nearest clean boreholes define the extent of impacts. It should be noted, that although lateral delineation has been achieved in Parcel B to the east, south and west, the nearest boreholes providing clean boundaries are located approximately 30 - 40 m away, there may still be a possibility of PHC contamination extending to the east of the estimated extent of soil impacts.

Soil management will be required during construction of the Biosolids Facilities Project. It is recommended that a Construction Environmental Management Plan be prepared during the tendering process. Also, continuous monitoring of the groundwater within the site is recommended. Results indicate hexavalent chromium concentrations in sample BH23-07 at 1.4 – 1.6 m bgs was below soil quality guidelines. However, it should be noted analysis was completed after recommended laboratory hold times. Although hexavalent chromium concentrations in this sample are below guidelines, this compound was detected at the Site and is important to note since hexavalent Chromium is a cancer inhalation concern. Other contaminants of concern which can pose a health risk during construction that are in concentrations exceeding guidelines at the Site include lead and arsenic. Special care should be taken during construction and excavation to protect workers from inhalation of soil particles. Mitigation measures include keeping the dust down during excavation, not excavating during high winds or very dry conditions, using wetting agents, implementing segregation or work zones, workers wearing half mask respirators, as well as washing work clothes.

Given the presence of soil impacts, a copy of this report should be submitted to the Director of Manitoba Environment, Climate and Parks (MECP) under *Section 3.1, Part 2 of the Contaminated Sites Remediation Act*.

10. References

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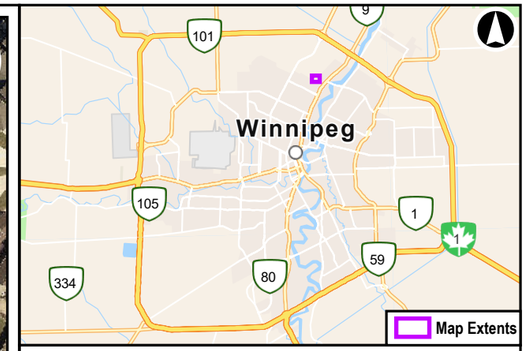
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Figures





Legend

- Borehole Location (AECOM 2022)
- Borehole Location (AECOM 2023)
- Borehole Location (SNC 2017/2018)
- Monitoring Well Location (AECOM 2022)
- Monitoring Well Location (SNC 2017/2018)
- Railway
- Existing Sewer Line
- Existing Underground Electrical

Site Features

- Proposed Facilities
- Proposed Detention Pond
- Proposed Potable Water
- Proposed Land Drainage Sewer
- Proposed Digester Gas Rail (CPR) Crossing
- Proposed Utilidor Rail (CPR) Crossing
- Parcel Boundary

Notes:

* Borehole/Monitoring Well Installed by SNC in 2017/2018

PHASE III ENVIRONMENTAL SITE ASSESSMENT NEWPCC UPGRADE: BIOSOLIDS FACILITIES 2230 MAIN STREET, WINNIPEG, MANITOBA

SITE PLAN

0 30 60 90 120

Meters

Datum: NAD 1983 UTM Zone 14N

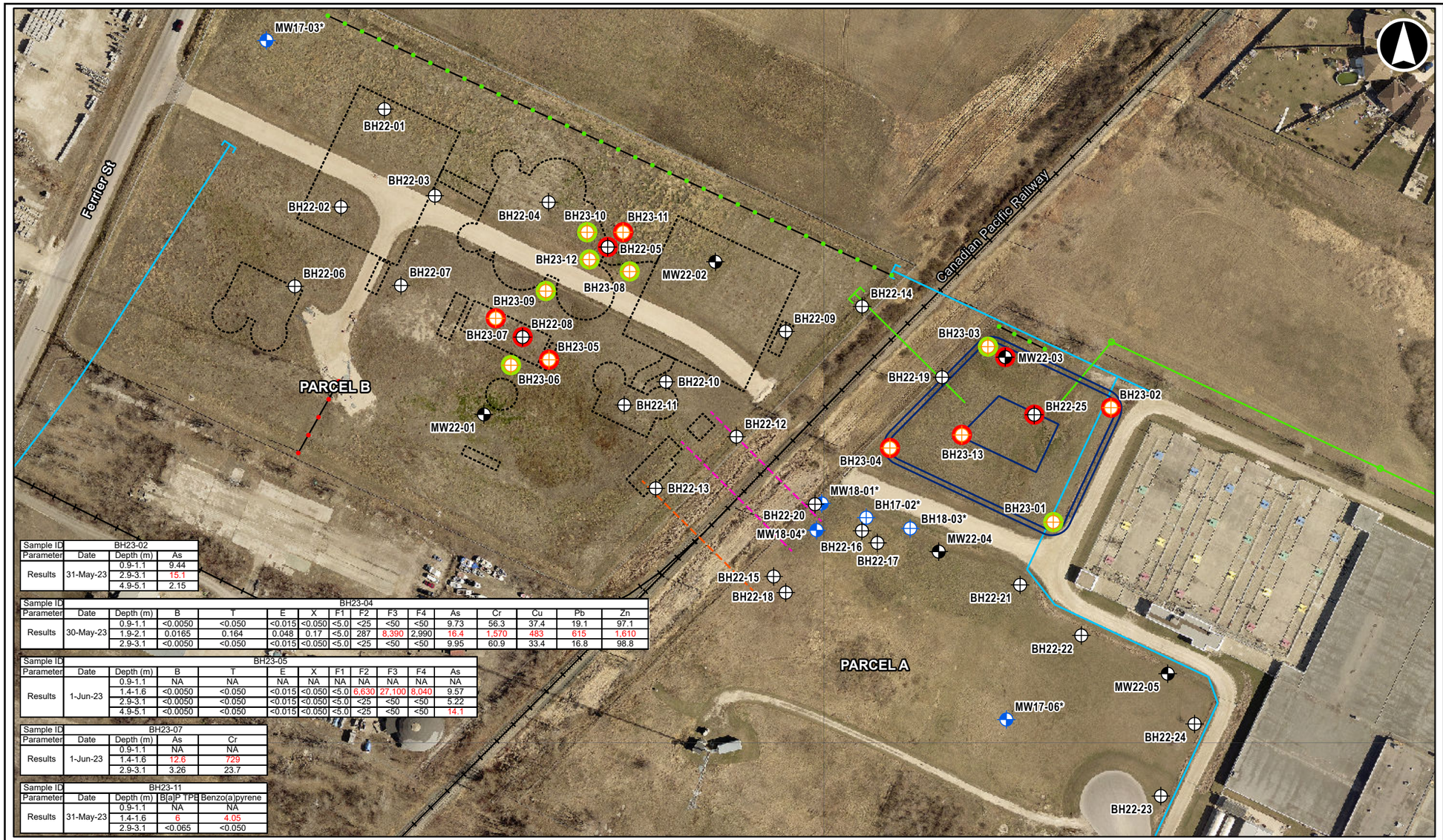
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Figure 1

Data Sources: NRCan - CanVec
Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Sample ID	BH23-02		
Parameter	Date	Depth (m)	As
Results	31-May-23	0.9-1.1	9.44
		2.9-3.1	15.1
		4.9-5.1	2.15

Sample ID	BH23-04														
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cr	Cu	Pb	Zn
Results	30-May-23	0.9-1.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	9.73	56.3	37.4	19.1	97.1
		1.9-2.1	0.0165	0.164	0.048	0.17	<5.0	287	8,390	2,990	16.4	1,570	483	615	1,610
		2.9-3.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	9.95	60.9	33.4	16.8	98.8

Sample ID	BH23-05									
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As
Results	1-Jun-23	0.9-1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
		1.4-1.6	<0.0050	<0.050	<0.015	<0.050	<5.0	6,630	27,100	8,040	9.57
		2.9-3.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	5.22
		4.9-5.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	14.1

Sample ID	BH23-07			
Parameter	Date	Depth (m)	As	Cr
Results	1-Jun-23	0.9-1.1	NA	NA
		1.4-1.6	12.6	729
		2.9-3.1	3.26	23.7

Sample ID	BH23-11			
Parameter	Date	Depth (m)	B[a]P TPE	Benzo(a)pyrene
Results	31-May-23	0.9-1.1	NA	NA
		1.4-1.6	6	4.05
		2.9-3.1	<0.065	<0.050

Sample ID	BH23-13											
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	Cr	Cu	Zn
Results	30-May-23	0.9-1.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	44.5	28.2	73.8
		2.4-2.6	<0.0050	0.057	<0.015	<0.050	<5.0	1580	9,670	2,920	340	128	441
		3.9-4.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	23.6	15.2	35
		3.9-4.1 dup	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	21.4	13.8	31.2

Sample ID	BH22-05									
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	Cr
Results	4-Nov-22										
		1.5-1.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	138
		3.3-3.4	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	13.4
		4.5-4.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	22
		4.5-4.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	17.1

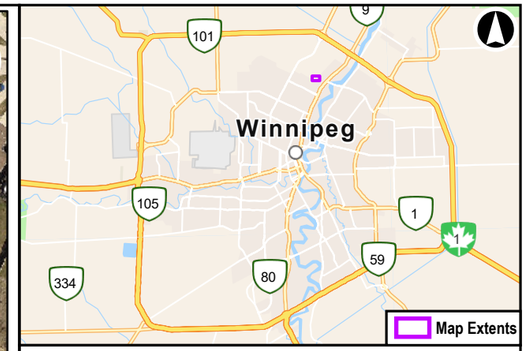
Sample ID	BH22-08																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	B(a)P TPE	Acenaph	Benzo(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	Cu	Zn
Results	1-Nov-22	0.8-0.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	74.7	43.6	161
		1.4-1.5	0.0098	0.215	0.039	0.159	114	3,890	19,800	5,970	15	0.366	15.2	12.5	16.1	13.5	513	302	722
		3.0-3.1	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	51	31.4	79

Sample ID	BH22-25															
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cr	Cu	Pb	Ni	Ag	Zn
Results	5-Nov-22	0.2-0.3	NA	NA	NA	NA	NA	NA	NA	NA	5.46	41.3	29.1	15.9	30.8	0.25	64.6
		1.8-1.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.59	50.9	31.6	15.6	41.5	0.18	86.9
		2.6-2.7	<0.0050	<0.050	<0.015	<0.071	<10	249	4,320	1,560	9.51	119	59.8	69.4	49.4	2.13	187
		2.6-2.7	<0.0050	<0.050	<0.015	<0.071	<10	499	6,380	2,250	14.9	1,550	511	675	92.5	45.7	1,710

Sample ID	MW22-03															
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cd	Cr	Cu	Pb	Ni	Ag	Zn
Results	5-Nov-22	1.8-1.9	<0.0050	<0.050	<0.015	<0.071	<10	257	6,830	2,680	18.6	22.2	1,910	551	677	107	56.4	1,710
		1.8-1.9	<0.0050	<0.050	<0.015	<0.071	<10	383	11,800	4,610	13.6	14	1,120	339	426	78.7	32.4	1,110
		2.6-2.7	<0.0050	<0.050	<0.015	<0.071	<10	257	5,880	2,200	14.2	12.2	959	293	371	73.3	26.6	964
		4.2-4.3	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.97	0.313	91.1	57.4	17.9	74.2	0.2	142

NOTES:

Abbreviations	B - Benzene; T - Toluene; E - Ethylbenzene; X - Xylenes; F1 - PHC fraction F1; F2 - PHC fraction F2; F3 - PHC fraction F3; F4 - PHC Fraction F4; PAH - Polycyclic Aromatic Hydrocarbons
	Acenaph - Acenaphthylene; Benz(a) - Benz(a)anthracene; Benzo(a)p - Benzo(a)pyrene; Benzo(b+j) - Benzo(b+j)fluoranthene; Cr - Chromium; As - Arsenic; Ag - Silver
	Cd - Cadmium; Cu - Copper; Pb - Lead; Zn - Zinc
	Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (2014) - Industrial Land Use, Fine Grained Soils
	CCME Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils
	Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial Land Use, Fine Grain Soil
<	Denotes concentration less than reportable detection limit
mg/kg	Unit for all soil quality guideline criteria and analytical results is milligrams per kilogram unless otherwise stated
dS/m	deciSiemens per metre
XX	Red and bold analytical results exceeded applied standards



Legend

- Borehole Location (AECOM 2022)
- Borehole Location (AECOM 2023)
- Borehole Location (SNC 2017/2018)
- Monitoring Well Location (AECOM 2022)
- Monitoring Well Location (SNC 2017/2018)
- Below Applicable Guideline
- Exceeds Applicable Guideline
- Railway
- Existing Sewer Line
- Existing Underground Electrical

Site Features

- Proposed Facilities
- Proposed Detention Pond
- Proposed Potable Water
- Proposed Land Drainage Sewer
- Proposed Digester Gas Rail (CPR) Crossing
- Proposed Utilidor Rail (CPR) Crossing

Notes:

* Borehole/Monitoring Well Installed by SNC in 2017/2018

PHASE III ENVIRONMENTAL SITE ASSESSMENT NEWPCC UPGRADE: BIOSOLIDS FACILITIES 2230 MAIN STREET, WINNIPEG, MANITOBA

SOIL SAMPLE LOCATIONS AND PETROLEUM HYDROCARBON, POLYCYCLIC AROMATIC HYDROCARBON AND METALS IMPACTS

0 30 60 90 120

Meters

Datum: NAD 1983 UTM Zone 14N

Aug, 2023	PN#: 60660698	1:2,000 * when printed 11"x17"

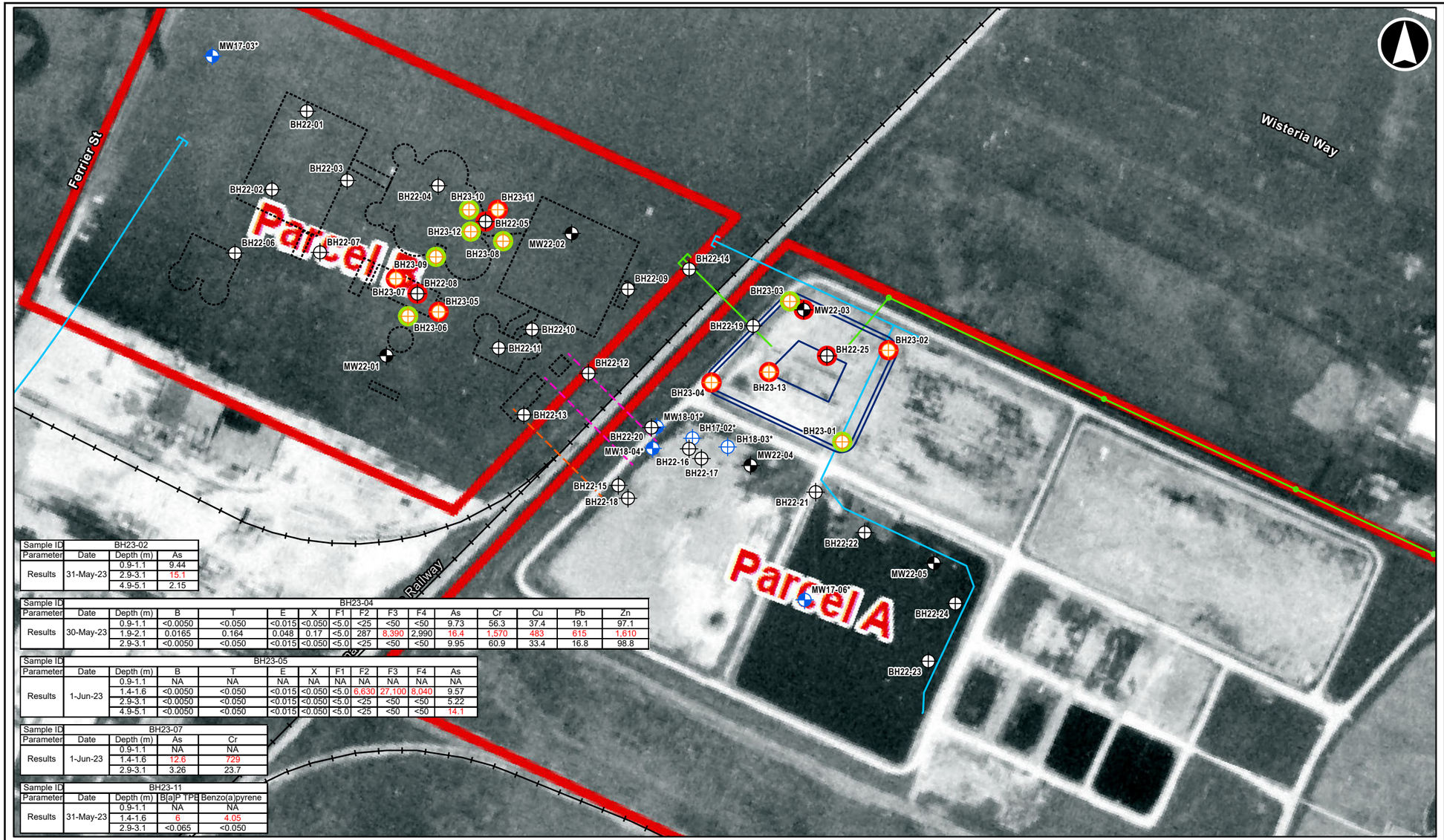
Figure 2

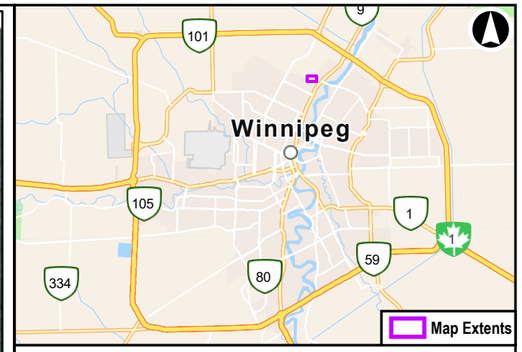
AECOM

Data Sources: NRCan - CanVec
Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Legend

- Borehole Location (AECOM 2022)
- Borehole Location (AECOM 2023)
- Borehole Location (SNC 2017/2018)
- Monitoring Well Location (AECOM 2022)
- Monitoring Well Location (SNC 2017/2018)
- Below Applicable Guideline
- Exceeds Applicable Guideline
- Railway

Site Features

- Proposed Facilities
- Proposed Detention Pond
- Proposed Potable Water
- Proposed Land Drainage Sewer
- Proposed Digester Gas Rail (CPR) Crossing
- Proposed Utilidor Rail (CPR) Crossing

Notes:

* Borehole/Monitoring Well Installed by SNC in 2017/2018

PHASE III ENVIRONMENTAL SITE ASSESSMENT NEWPCC UPGRADE: BIOSOLIDS FACILITIES 2230 MAIN STREET, WINNIPEG, MANITOBA

SOIL SAMPLE LOCATIONS AND PETROLEUM HYDROCARBON, POLYCYCLIC AROMATIC HYDROCARBON AND METALS IMPACTS – 1959 AIR PHOTO

0 40 80 120 160

Meters

Datum: NAD 1983 UTM Zone 14N

Aug, 2023	PN#: 60660698	1:2,500 * when printed 11"x17"	AECOM

Figure 3

Data Sources: NRCan - CanVec; 1959 Air Photo - Stantec
Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Sample ID	BH23-02		
Parameter	Date	Depth (m)	As
Results	31-May-23	0.9-1.1	9.44
		2.9-3.1	15.1
		4.9-5.1	2.15

Sample ID	BH23-04														
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cr	Cu	Pb	Zn
Results	30-May-23	0.9-1.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	9.73	56.3	37.4	19.1	97.1
		1.9-2.1	0.0165	0.164	0.048	0.17	<5.0	287	8,390	2,990	16.4	1,570	483	615	1,610
		2.9-3.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	9.95	60.9	33.4	16.8	98.8

Sample ID	BH23-05									
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As
Results	1-Jun-23	0.9-1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
		1.4-1.6	<0.0050	<0.050	<0.015	<0.050	<5.0	6,630	27,100	8,040	9.57
		2.9-3.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	5.22
		4.9-5.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	14.1

Sample ID	BH23-07		
Parameter	Date	Depth (m)	As	Cr
Results	1-Jun-23	0.9-1.1	NA	NA
		1.4-1.6	12.6	729
		2.9-3.1	3.26	23.7

Sample ID	BH23-11			
Parameter	Date	Depth (m)	B[a]P TPE	Benzo(a)pyrene
Results	31-May-23	0.9-1.1	NA	NA
		1.4-1.6	6	4.05
		2.9-3.1	<0.065	<0.050

Sample ID	BH23-13											
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	Cr	Cu	Zn
Results	30-May-23	0.9-1.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	44.5	28.2	73.8
		2.4-2.6	<0.0050	0.057	<0.015	<0.050	<5.0	1580	9,670	2,920	340	128	441
		3.9-4.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	23.6	15.2	35
		3.9-4.1 dup	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	21.4	13.8	31.2

Sample ID	BH22-05									
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	Cr
Results	4-Nov-22	1.5-1.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	138
		3.3-3.4	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	13.4
		4.5-4.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	22
		4.5-4.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	17.1

Sample ID	BH22-08																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	B(a)P TPE	Acenaph	Benzo(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	Cu	Zn
Results	1-Nov-22	0.8-0.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	74.7	43.6	161
		1.4-1.5	0.0098	0.215	0.039	0.159	114	3,890	19,800	5,970	15	0.366	15.2	12.5	16.1	13.5	513	302	722
		3.0-3.1	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	51	31.4	79

Sample ID	BH22-25																
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cr	Cu	Pb	Ni	Ag	Zn
Results	5-Nov-22	0.2-0.3	NA	NA	NA	NA	NA	NA	NA	NA	5.46	41.3	29.1	15.9	30.8	0.25	64.6
		1.8-1.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.59	50.9	31.6	15.6	41.5	0.18	86.9
		2.6-2.7	<0.0050	<0.050	<0.015	<0.071	<10	249	4,320	1,560	9.51	119	59.8	69.4	49.4	2.13	187
		2.6-2.7	<0.0050	<0.050	<0.015	<0.071	<10	499	6,380	2,250	14.9	1,550	511	675	92.5	45.7	1,710

Sample ID	MW22-03																
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cd	Cr	Cu	Pb	Ni	Ag	Zn
Results	5-Nov-22	1.8-1.9	<0.0050	<0.050	<0.015	<0.071	<10	257	6,830	2,680	18.6	22.2	1,910	551	677	107	56.4	1,710
		1.8-1.9	<0.0050	<0.050	<0.015	<0.071	<10	383	11,800	4,610	13.6	14	1,120	339	426	78.7	32.4	1,110
		2.6-2.7	<0.0050	<0.050	<0.015	<0.071	<10	257	5,880	2,200	14.2	12.2	959	293	371	73.3	26.6	964
		4.2-4.3	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.97	0.313	91.1	57.4	17.9	74.2	0.2	142

NOTES:

B - Benzene; T - Toluene; E - Ethylbenzene; X - Xylenes; F1 - PHC fraction F1; F2 - PHC fraction F2; F3 - PHC fraction F3; F4 - PHC Fraction F4; PAH - Polycyclic Aromatic Hydrocarbons

Abbreviations: Acenaph - Acenaphthylene; Benz(a) - Benz(a)anthracene; Benzo(a)p - Benzo(a)pyrene; Benzo(b+j) - Benzo(b+j)fluoranthene; Cr - Chromium; As - Arsenic; Ag - Silver

Cd - Cadmium; Cu - Copper; Pb - Lead; Zn - Zinc

Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (2014) - Industrial Land Use, Fine Grained Soils

CCME Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils

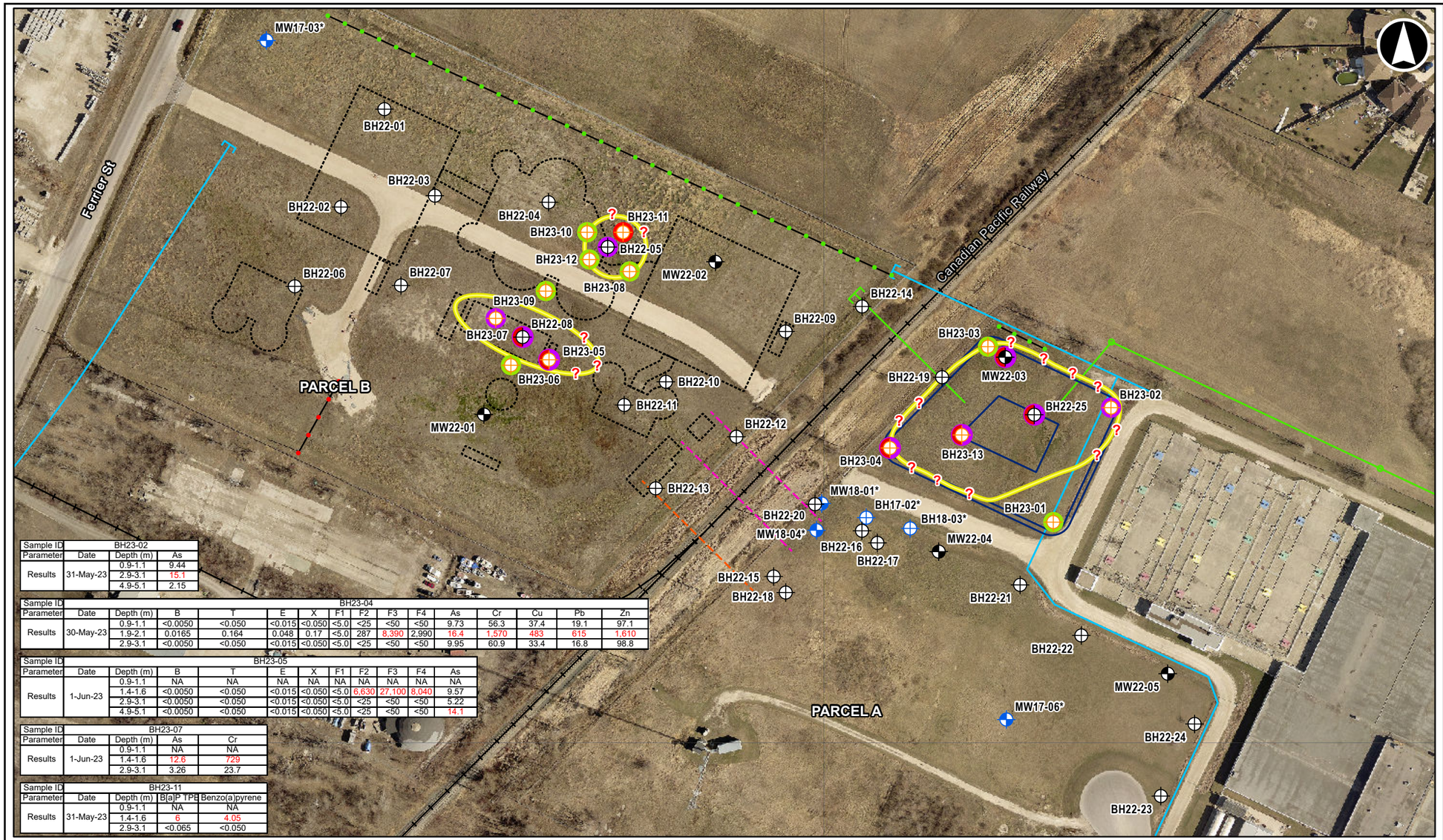
Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial Land Use, Fine Grain Soil

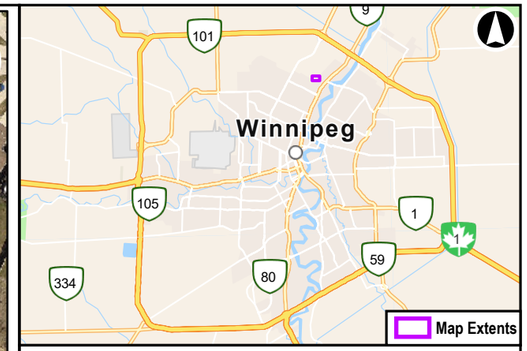
< Denotes concentration less than reportable detection limit

mg/kg Unit for all soil quality guideline criteria and analytical results is milligrams per kilogram unless otherwise stated

dS/m deciSiemens per metre

XX Red and bold analytical results exceeded applied standards





Legend

- Borehole Location (AECOM 2022)
- Borehole Location (AECOM 2023)
- Borehole Location (SNC 2017/2018)
- Monitoring Well Location (AECOM 2022)
- Monitoring Well Location (SNC 2017/2018)
- Below Applicable Guideline
- Exceeds Applicable Hydrocarbon Guideline
- Exceeds Applicable Metals Guideline
- Railway
- Existing Sewer Line
- Existing Underground Electrical

Site Features

- Proposed Facilities
- Proposed Detention Pond
- Proposed Potable Water
- Proposed Land Drainage Sewer
- Proposed Digester Gas Rail (CPR) Crossing
- Proposed Utilidor Rail (CPR) Crossing
- Estimated Extent of Soil Impact
- ? ? ? Unknown Extent of Soil Impact

Notes:

* Borehole/Monitoring Well Installed by SNC in 2017/2018

Sample ID	BH23-02		
Parameter	Date	Depth (m)	As
Results	31-May-23	0.9-1.1	9.44
		2.9-3.1	15.1
		4.9-5.1	2.15

Sample ID	BH23-04														
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cr	Cu	Pb	Zn
Results	30-May-23	0.9-1.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	9.73	56.3	37.4	19.1	97.1
		1.9-2.1	0.0165	0.164	0.048	0.17	<5.0	287	8,390	2,990	16.4	1,570	483	615	1,610
		2.9-3.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	9.95	60.9	33.4	16.8	98.8

Sample ID	BH23-05									
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As
Results	1-Jun-23	0.9-1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
		1.4-1.6	<0.0050	<0.050	<0.015	<0.050	<5.0	6,630	27,100	8,040	9.57
		2.9-3.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	5.22
		4.9-5.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	14.1

Sample ID	BH23-07			
Parameter	Date	Depth (m)	As	Cr
Results	1-Jun-23	0.9-1.1	NA	NA
		1.4-1.6	12.6	729
		2.9-3.1	3.26	23.7

Sample ID	BH23-11			
Parameter	Date	Depth (m)	B[a]P TPE	Benzo(a)pyrene
Results	31-May-23	0.9-1.1	NA	NA
		1.4-1.6	6	4.05
		2.9-3.1	<0.065	<0.050

Sample ID	BH23-13											
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	Cr	Cu	Zn
Results	30-May-23	0.9-1.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	44.5	28.2	73.8
		2.4-2.6	<0.0050	0.057	<0.015	<0.050	<5.0	1580	9,670	2,920	340	128	441
		3.9-4.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	23.6	15.2	35
		3.9-4.1 dup	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	21.4	13.8	31.2

Sample ID	BH22-05									
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	Cr
Results	4-Nov-22										
		1.5-1.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	138
		3.3-3.4	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	13.4
		4.5-4.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	22
		4.5-4.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	17.1

Sample ID	BH22-08																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	B(a)P TPE	Acenaph	Benzo(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	Cu	Zn
Results	1-Nov-22	0.8-0.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	74.7	43.6	161
		1.4-1.5	0.0098	0.215	0.039	0.159	114	3,890	19,800	5,970	15	0.366	15.2	12.5	16.1	13.5	513	302	722
		3.0-3.1	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	51	31.4	79

Sample ID	BH22-25															
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cr	Cu	Pb	Ni	Ag	Zn
Results	5-Nov-22	0.2-0.3	NA	NA	NA	NA	NA	NA	NA	NA	5.46	41.3	29.1	15.9	30.8	0.25	64.6
		1.8-1.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.59	50.9	31.6	15.6	41.5	0.18	86.9
		2.6-2.7	<0.0050	<0.050	<0.015	<0.071	<10	249	4,320	1,560	9.51	119	59.8	69.4	49.4	2.13	187
		2.6-2.7	<0.0050	<0.050	<0.015	<0.071	<10	499	6,380	2,250	14.9	1,550	511	675	92.5	45.7	1,710

Sample ID	MW22-03																
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As	Cd	Cr	Cu	Pb	Ni	Ag	Zn
Results	5-Nov-22	1.8-1.9	<0.0050	<0.050	<0.015	<0.071	<10	257	6,830	2,680	18.6	22.2	1,910	551	677	107	56.4	1,710
		1.8-1.9	<0.0050	<0.050	<0.015	<0.071	<10	383	11,800	4,610	13.6	14	1,120	339	426	78.7	32.4	1,110
		2.6-2.7	<0.0050	<0.050	<0.015	<0.071	<10	257	5,880	2,200	14.2	12.2	959	293	371	73.3	26.6	964
		4.2-4.3	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	8.97	0.313	91.1	57.4	17.9	74.2	0.2	142

NOTES:

Abbreviations	B - Benzene; T - Toluene; E - Ethylbenzene; X - Xylenes; F1 - PHC fraction F1; F2 - PHC fraction F2; F3 - PHC fraction F3; F4 - PHC Fraction F4; PAH - Polycyclic Aromatic Hydrocarbons
	Acenaph - Acenaphthylene; Benz(a) - Benz(a)anthracene; Benzo(a)p - Benzo(a)pyrene; Benzo(b+j) - Benzo(b+j)fluoranthene; Cr - Chromium; As - Arsenic; Ag - Silver
	Cd - Cadmium; Cu - Copper; Pb - Lead; Zn - Zinc
	Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (2014) - Industrial Land Use, Fine Grained Soils
	CCME Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils
	Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial Land Use, Fine Grain Soil
<	Denotes concentration less than reportable detection limit
mg/kg	Unit for all soil quality guideline criteria and analytical results is milligrams per kilogram unless otherwise stated
dS/m	deciSiemens per metre
XX	Red and bold analytical results exceeded applied standards

PHASE III ENVIRONMENTAL SITE ASSESSMENT NEWPCC UPGRADE: BIOSOLIDS FACILITIES 2230 MAIN STREET, WINNIPEG, MANITOBA

SOIL SAMPLE LOCATIONS WITH ESTIMATED EXTENT OF SOIL IMPACTS

0 30 60 90 120

Meters

Datum: NAD 1983 UTM Zone 14N

Aug, 2023 | PN#: 60660698 | 1:2,000 * when printed 11"x17"

Figure 4

AECOM

Data Sources: NRCan - CanVec; 1959 Air Photo - Stantec
Esri Canada, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Date Saved: 8/31/2023 User Name: Stephen Clark

Tables

Sampling Event				2023 Sampling Event (Parcel A)														
Sample ID				BH-23-01-03	BH-23-01-06	BH-23-01-10	BH-23-02-02	BH-23-02-10	BH-23-02-06	BH-23-03-02	BH-23-03-06	BH-23-03-11	BH-23-04-02	BH-23-04-04	BH-23-04-06	BH-23-04-10	BH-23-13-02	BH-23-13-05
Sample Date				30-May-2023	30-May-2023	30-May-2023	31-May-2023	31-May-2023	31-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023
Sample Depth (m bgs)				1.4-1.6	2.9-3.1	4.9-5.1	0.9-1.1	2.9-3.1	4.9-5.1	0.9-1.1	2.9-3.1	5.4-5.6	0.9-1.1	1.9-2.1	2.9-3.1	4.9-5.1	0.9-1.1	2.4-2.6
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units															
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0165	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.164	<0.050	<0.050	<0.050	0.057
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.048	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.170	<0.050	<0.050	<0.050	<0.050
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	287	<25	<25	<25	1,580
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	86	72	<50	50	<50	<50	122	<50	<50	<50	**8,390**	<50	<50	<50	**9,670**
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	2,990	<50	<50	<50	2,920
Moisture	n/g	n/g	%	21.9	22.6	34.4	24.8	34.7	23.5	21.7	19.5	34.8	25.5	46.9	26.5	33.5	27.0	35.8

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				Parcel A		2023 Sampling Event (Parcel B)											
Sample ID				BH-23-13-08	DUP-01 (Dup of BH-23-13-08)	BH-23-08-03	BH-23-08-06	BH-23-08-10	DUP-3 (Dup of BH-23-08-10)	BH-23-10-02	BH-23-10-04	BH-23-10-09	BH-23-11-03	BH-23-11-06	BH-23-11-11	BH-23-12-02	BH-23-12-06	DUP-02 (Dup of BH-23-12-06)
Sample Date				30-May-2023	30-May-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023
Sample Depth (m bgs)				3.9-4.1	3.9-4.1	1.4-1.6	2.9-3.1	4.9-5.1	4.9-5.1	0.9-1.1	1.9-2.1	4.4-4.6	1.4-1.6	2.9-3.1	4.9-5.1	0.9-1.1	2.9-3.1	2.9-3.1
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units															
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	19.6	18.2	30.0	43.6	35.4	38.4	40.0	24.5	36.6	32.6	23.7	36.4	24.0	20.7	23.7

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2023 Sampling Event (Parcel B)													
Sample ID				BH-23-12-10	BH-23-05-03	BH-23-05-06	BH-23-05-10	BH-23-06-02	BH-23-06-05	BH-23-06-09	BH-23-07-03	BH-23-07-06	DUP-4 (Dup of BH-23-07-06)	BH-23-07-11	BH-23-09-03	BH-23-09-06	BH-23-09-09
Sample Date				31-May-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023
Sample Depth (m bgs)				4.9-5.1	1.4-1.6	2.9-3.1	4.9-5.1	0.9-1.1	2.4-2.6	4.4-4.6	1.4-1.6	2.9-3.1	2.9-3.1	5.4-5.6	1.4-1.6	2.9-3.1	4.4-4.6
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units														
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0203	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.200	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.055	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.156	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	**6,630**	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	**27,100**	<50	<50	<50	<50	<50	186	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	**8,040**	<50	<50	<50	<50	<50	75	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	47.2	54.6	31.6	47.7	38.6	36.3	36.9	29.4	25.1	17.8	33.6	28.0	17.9	28.4

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2022 Sampling Event															
Sample ID				BH2201-SS01	BH22-01-SS03	BH22-01-SS06	BH22-02-SS02	BH22-02-SS04	BH22-03-SS02	BH22-03-SS04	BH22-03-SS06	BH22-04-SS02	BH22-04-SS04	BH22-05-SS02	BH22-05-SS04	BH22-05-SS06	BH22-05-SS08 (Dup of BH22-05-SS06)	BH22-06-SS02	BH22-06-SS03
Sample Date				31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	2-Nov-2022	2-Nov-2022
Sample Depth (m bgs)				0.8-0.9	2.4-2.5	4.5-4.6	1.4-1.5	2.9-3.0	0.8-0.9	2.4-2.5	3.7-3.8	1.5-1.6	2.9-3.0	1.5-1.6	3.3-3.4	4.5-4.6	4.5-4.6	2.1-2.2	2.9-3.0
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units																
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.030	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.14	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	24.6	18.3	35.5	28.6	16.6	27.0	19.0	34.3	25.8	18.4	30.4	22.3	17.5	26.3	23.0	17.9

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2022 Sampling Event															
Sample ID				BH22-06-SS05	BH22-07-SS01	BH22-07-SS03	BH22-07-SS05	BH22-07-SS06 (Dup of BH22-07-SS05)	BH22-08-SS01	BH22-08-SS02	BH22-08-SS04	BH22-09-SS02	BH22-09-SS04	BH22-09-SS06	BH22-10-SS02	BH22-10-SS04	BH22-10-SS06	BH22-11-SS01	BH22-11-SS03	BH22-11-SS05
Sample Date				2-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022
Sample Depth (m bgs)				4.5-4.6	1.2-1.3	2.9-3.0	4.5-4.6	4.5-4.6	0.8-0.9	1.4-1.5	3.0-3.1	0.8-0.9	2.4-2.5	3.9-4.0	1.4-1.5	3.0-3.1	4.5-4.6	0.8-0.9	2.4-2.5	3.9-4.0
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units																
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0098	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.215	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.039	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	0.159	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	114	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	**3,890**	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	59	<50	<50	<50	<50	**19,800**	<50	<50	<50	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	5,970	<50	<50	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	30.1	14.1	24.4	20.9	22.2	23.4	40.7	25.1	28.5	19.8	35.6	25.3	18.2	35.7	21.7	20.6	22.3

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities
Phase III Environmental Site Assessment
Table 1: Soil Analytical Results - Petroleum Hydrocarbons

AECOM

Sampling Event				2022 Sampling Event														
Sample ID				BH22-12-SS01	BH22-12-SS03	BH22-12-SS05	BH22-13-SS02	BH22-13-SS04	BH22-14-SS01	BH22-14-SS14 (Dup of BH22-14-SS01)	BH22-14-SS03	BH22-14-SS05	BH22-15-SS02	BH22-15-SS03	BH22-15-SS06 (Dup OF BH22-15-SS03)	BH22-15-SS04	BH22-16-SS01	BH22-16-SS03	BH22-16-SS05	BH22-17-SS02
Sample Date				2-Nov-2022	2-Nov-2022	2-Nov-2022	1-Nov-2022	1-Nov-2022	3-Nov-2022	3-Nov-2022	3-Nov-2022	3-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022
Sample Depth (m bgs)				0.8-0.9	2.4-2.5	3.7-3.8	1.4-1.5	2.9-3.0	0.9-1.0	0.9-1.0	2.3-2.4	3.7-3.8	2.4-2.5	3.0-3.1	3.0-3.1	3.9-4.0	1.2-1.3	2.9-3.0	4.5-4.6	1.2-1.3
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units																	
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0065	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.172	<0.050	<0.050	<0.050	<0.050	0.276	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.025	<0.015	<0.015	<0.015	<0.015	0.017	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	0.076	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	268	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	108	4,830	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	1,780	<50	<50
Moisture	n/g	n/g	%	30.1	19.3	34.6	29.1	22.9	23.8	19.0	19.2	31.2	26.9	16.2	18.2	32.7	24.5	41.4	19.1	24.7

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2022 Sampling Event														
Sample ID				BH22-17-SS03	BH22-17-SS05	BH22-18-SS01	BH22-18-SS02	BH22-18-SS06 (Dup of BH22-18-SS02)	BH22-18-SS03	BH22-19-SS01	BH22-19-SS04	BH22-19-SS06	BH22-20-SS01	BH22-20-SS04	BH22-20-SS05	BH22-21-SS02	BH22-21-SS-04 (Dup of BH22-21-SS02)	BH22-21-SS03	BH22-22-SS02	BH22-22-SS04
Sample Date				4-Nov-2022	4-Nov-2022	6-Nov-2022	6-Nov-2022	6-Nov-2022	6-Nov-2022	3-Nov-2022	3-Nov-2022	3-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022
Sample Depth (m bgs)				2.1-2.2	3.6-3.7	1.1-1.2	2.4-2.5	2.4-2.5	3.0-3.1	0.8-0.9	2.9-3.0	4.5-4.6	0.8-0.9	2.7-2.8	3.6-3.7	2.0-2.1	2.0-2.1	2.9-3.0	1.1-1.2	2.9-3.0
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units																	
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	119	169	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	55	58	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	22.0	17.8	25.9	27.0	26.2	16.6	25.5	21.2	35.2	27.5	19.4	34.5	27.2	27.5	16.7	21.2	17.6

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2022 Sampling Event												
Sample ID				BH22-22-SS08 (Dup of BH22-22-SS04	BH22-22-SS06	BH22-23-SS01	BH22-23-SS03	BH22-23-SS05	BH22-24-SS02	BH22-24-SS03	BH22-25-SS02	BH22-25-SS03	BH22-25-SS05 (Dup of BH22-25-SS03)	MW22-01-SS02	MW22-01-SS04	MW22-01-SS06
Sample Date				5-Nov-2022	5-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022
Sample Depth (m bgs)				2.9-3.0	4.3-4.4	1.1-1.2	2.9-3.0	4.5-4.6	1.7-1.8	2.7-2.8	1.8-1.9	2.6-2.7	2.6-2.7	1.4-1.5	2.9-3.0	4.5-4.6
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units													
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.071	0.070	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.017	0.019	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	249	499	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	4,320	**6,380**	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	1,560	2,250	<50	<50	<50
Moisture	n/g	n/g	%	17.4	34.1	24.7	19.2	35.9	22.9	17.7	25.1	32.7	39.6	27.4	23.9	20.8

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2022 Sampling Event														
			Sample ID	MW22-01-SS01	MW22-01-SS03	MW22-01-SS05	MW22-03-SS02	MW22-03-SS-06 (Dup of MW22-03-SS02)	MW22-03-SS03	MW22-03-SS05	MW22-04-SS01	MW22-04-SS03	MW22-04-SSS04	MW22-05-SS01	MW22-05-SS02	MW22-05-SS04	LI	ST-A1	ST-A2	C-LD
			Sample Date	31-Oct-2022	31-Oct-2022	31-Oct-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	5-Nov-2022	3-Nov-2022	3-Nov-2022	3-Nov-2022
			Sample Depth (m bgs)	0.8-0.9	2.3-2.4	3.9-4.0	1.8-1.9	1.8-1.9	2.6-2.7	4.2-4.3	1.2-1.3	2.9-3.0	3.7-3.8	1.1-1.2	2.0-2.1	3.7-3.8	-	0.3	0.3	0.3
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units																	
Benzene	2.8	2.9	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0128	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	330	660	mg/kg	<0.015	<0.015	<0.015	<0.050	<0.050	<0.050	<0.050	<0.050	0.343	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	430	860	mg/kg	<0.050	<0.050	<0.050	<0.015	<0.015	<0.015	<0.015	<0.015	0.038	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	230	460	mg/kg	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	0.143	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
PHC F1 (C6-C10) minus BTEX	320	800	mg/kg	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PHC F2 (>C10-C16)	260	1,000	mg/kg	<25	<25	<25	257	383	257	<25	<25	174	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	2,500	5,000	mg/kg	<50	<50	<50	**6,830**	**11,800**	**5,880**	<50	<50	**5,660**	<50	<50	301	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	6,600	10,000	mg/kg	<50	<50	<50	2,680	4,610	2,200	<50	<50	2,410	<50	<50	156	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	20.8	21.1	34.8	40.6	46.5	35.2	22.2	29.8	41.9	16.5	23.0	24.6	20.9	15.3	36.1	33.6	30.3

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2023 Sampling Event (Parcel A)														
Sample ID				BH-23-01-03	BH-23-01-06	BH-23-01-10	BH-23-02-02	BH-23-02-10	BH-23-02-06	BH-23-03-02	BH-23-03-06	BH-23-03-11	BH-23-04-02	BH-23-04-04	BH-23-04-06	BH-23-04-10	BH-23-13-02	BH-23-13-05
Sample Date				30-May-2023	30-May-2023	30-May-2023	31-May-2023	31-May-2023	31-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023
Sample Depth (m bgs)				1.4-1.6	2.9-3.1	4.9-5.1	0.9-1.1	2.9-3.1	4.9-5.1	0.9-1.1	2.9-3.1	5.4-5.6	0.9-1.1	1.9-2.1	2.9-3.1	4.9-5.1	0.9-1.1	2.4-2.6
Parameter	CCME[a]	MOE[b]	Units															
Benzo(a)pyrene total potency equivalents	**5.3**	n/g	mg/kg	0.208	1.02	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	1.18	<0.065	<0.065	<0.065	0.794
Acenaphthene	n/g	**96**	mg/kg	<0.050	0.422	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.059	<0.050	<0.050	<0.050	0.485
Acenaphthylene	n/g	**0.17**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.063	<0.050	<0.050	<0.050	0.144
Acridine	**n/g**	n/g	mg/kg	<0.050	0.112	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<2.55
Anthracene	**32**	0.74	mg/kg	0.071	1.23	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.218	<0.050	<0.050	<0.050	0.624
Fluorene	n/g	**69**	mg/kg	<0.050	0.476	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.078	<0.050	<0.050	<0.050	0.641
Naphthalene	**22**	28	mg/kg	0.016	0.146	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.224	<0.010	<0.010	<0.010	0.787
Phenanthrene	**50**	16	mg/kg	0.222	3.34	<0.050	0.055	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.819	<0.050	<0.050	<0.050	2.28
Benz(a)anthracene	**10** [c]	0.96	mg/kg	0.138	1.04	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.408	<0.050	<0.050	<0.050	0.623
Benzo(a)pyrene	**1.4**	0.3	mg/kg	0.131	0.686	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.802	<0.050	<0.050	<0.050	0.490
Benzo(b+j)fluoranthene	**10** [c]	0.96	mg/kg	0.191	0.823	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.870	<0.050	<0.050	<0.050	0.815
Benzo(g,h,i)perylene	n/g	**9.6**	mg/kg	0.076	0.210	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.737	<0.050	<0.050	<0.050	0.335
Benzo(k)fluoranthene	**10** [c]	0.96	mg/kg	0.074	0.366	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.316	<0.050	<0.050	<0.050	0.331
Chrysene	n/g	**9.6**	mg/kg	0.124	0.770	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.656	<0.050	<0.050	<0.050	0.775
Dibenz(a,h)anthracene	**10** [c]	0.1	mg/kg	<0.050	0.076	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.142	<0.050	<0.050	<0.050	0.085
Fluoranthene	**180**	9.6	mg/kg	0.299	2.68	<0.050	0.084	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.886	<0.050	<0.050	<0.050	1.29
Indeno(1,2,3-c,d)pyrene	**10** [c]	0.95	mg/kg	0.098	0.293	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.616	<0.050	<0.050	<0.050	0.312
Methylnaphthalene, 1-	n/g	**85**	mg/kg	<0.030	0.062	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.209	<0.030	<0.030	<0.030	2.97
Methylnaphthalene, 2-	n/g	**85**	mg/kg	<0.030	0.080	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.566	<0.030	<0.030	<0.030	1.98
Pyrene	**100** [c]	96	mg/kg	0.240	2.17	<0.050	0.065	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.974	<0.050	<0.050	<0.050	1.73
Quinoline	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Fine Grain Soil, Human Health Guidelines 10^{-5} incremental risk.*

[b] *Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use, Fine Grain Soil).*

[c] *interim Soil Quality Criteria CCME 1991)*
m bgs: meters below ground surface
mg/kg: milligrams per kilogram
< :Denotes concentration less than indicated detection limit
- :Not analyzed
n/g: no guideline
PAH: Polycyclic Aromatic Hydrocarbons
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

Table 2: Soil Analytical Results - Polycyclic Aromatic Hydrocarbons

				Sampling Event	Parcel A		2023 Sampling Event (Parcel B)												
				Sample ID	BH-23-13-08	DUP-01 (Dup of BH-23-13-06)	BH-23-08-03	BH-23-08-06	BH-23-08-10	DUP-3 (Dup of BH-23-08-10	BH-23-10-02	BH-23-10-04	BH-23-10-09	BH-23-11-03	BH-23-11-06	BH-23-11-11	BH-23-12-02	BH-23-12-06	DUP-02 (Dup of BH-23-12-06)	BH-23-12-10
				Sample Date	30-May-2023	30-May-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023
				Sample Depth (m bgs)	3.9-4.1	3.9-4.1	1.4-1.6	2.9-3.1	4.9-5.1	4.9-5.1	09.-1.1	1.9-2.1	4.4-4.6	1.4-1.6	2.9-3.1	4.9-5.1	0.9-1.1	2.9-3.1	2.9-3.1	4.9-5.1
Parameter	CCME[a]	MOE[b]	Units																	
Benzo(a)pyrene total potency equivalents	**5.3**	n/g	mg/kg	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	**6.00**	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065
Acenaphthene	n/g	**96**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.083	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	n/g	**0.17**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.058	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	**32**	0.74	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.807	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	n/g	**69**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.153	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Naphthalene	**22**	28	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	**50**	16	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2.57	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	**10**[c]	0.96	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	3.32	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	**1.4**	0.3	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	**4.05**	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	**10**[c]	0.96	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	4.86	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	n/g	**9.6**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	1.89	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	**10**[c]	0.96	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2.39	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	n/g	**9.6**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	3.87	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	**10**[c]	0.1	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.609	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	**180**	9.6	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	6.88	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	**10**[c]	0.95	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	2.31	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	n/g	**85**	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 2-	n/g	**85**	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Pyrene	**100**[c]	96	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	5.43	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Fine Grain Soil, Human Health Guidelines 10^{-5} incremental risk.

[b] Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use, Fine Grain Soil).

[c] interim Soil Quality Criteria CCME 1991)
m bgs: meters below ground surface
mg/kg: milligrams per kilogram
< :Denotes concentration less than indicated detection limit
- :Not analyzed
n/g: no guideline
PAH: Polycyclic Aromatic Hydrocarbons
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2023 Sampling Event (Parcel B)												
Sample ID				BH-23-05-03	BH-23-05-06	BH-23-05-10	BH-23-06-02	BH-23-06-05	BH-23-06-09	BH-23-07-03	BH-23-07-06	DUP-4 (Dup of BH-23-07-06)	BH-23-07-11	BH-23-09-03	BH-23-09-06	BH-23-09-09
Sample Date				01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023
Sample Depth (m bgs)				1.4-1.6	2.9-3.1	4.9-5.1	0.9-1.1	2.4-2.6	4.4-4.6	1.4-1.6	2.9-3.1	2.9-3.1	5.4-5.6	1.4-1.6	2.9-3.1	4.4-4.6
Parameter	CCME[a]	MOE[b]	Units													
Benzo(a)pyrene total potency equivalents	**5.3**	n/g	mg/kg	0.279	<0.065	<0.065	<0.065	<0.065	<0.065	1.33	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065
Acenaphthene	n/g	**96**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.119	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	n/g	**0.17**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.063	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	**32**	0.74	mg/kg	0.074	<0.050	<0.050	<0.050	<0.050	<0.050	0.325	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	n/g	**69**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.178	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Naphthalene	**22**	28	mg/kg	0.043	<0.010	<0.010	<0.010	<0.010	<0.010	0.258	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	**50**	16	mg/kg	0.282	<0.050	<0.050	<0.050	<0.050	<0.050	1.55	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	**10** [c]	0.96	mg/kg	0.117	<0.050	<0.050	<0.050	<0.050	<0.050	0.603	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	**1.4**	0.3	mg/kg	0.195	<0.050	<0.050	<0.050	<0.050	<0.050	0.896	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	**10** [c]	0.96	mg/kg	0.183	<0.050	<0.050	<0.050	<0.050	<0.050	1.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	n/g	**9.6**	mg/kg	0.197	<0.050	<0.050	<0.050	<0.050	<0.050	0.640	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	**10** [c]	0.96	mg/kg	0.095	<0.050	<0.050	<0.050	<0.050	<0.050	0.470	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	n/g	**9.6**	mg/kg	0.175	<0.050	<0.050	<0.050	<0.050	<0.050	0.736	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	**10** [c]	0.1	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.143	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	**180**	9.6	mg/kg	0.404	<0.050	<0.050	<0.050	<0.050	<0.050	1.69	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	**10** [c]	0.95	mg/kg	0.162	<0.050	<0.050	<0.050	<0.050	<0.050	0.669	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	n/g	**85**	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.178	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 2-	n/g	**85**	mg/kg	0.065	<0.030	<0.030	<0.030	<0.030	<0.030	0.476	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Pyrene	**100** [c]	96	mg/kg	0.362	<0.050	<0.050	<0.050	<0.050	<0.050	1.44	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	**n/g**	n/g	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Fine Grain Soil, Human Health Guidelines 10^{-5} incremental risk.

[b] Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use, Fine Grain Soil).

[c] interim Soil Quality Criteria CCME 1991)
m bgs: meters below ground surface
mg/kg: milligrams per kilogram
< :Denotes concentration less than indicated detection limit
- :Not analyzed
n/g: no guideline
PAH: Polycyclic Aromatic Hydrocarbons
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2022 Sampling Event														
Sample ID				BH22-01-SS01	BH22-02-SS04	BH22-03-SS04	BH22-04-SS02	BH22-05-SS04	BH22-06-SS03	BH22-07-SS05	BH22-07-SS06 (Dup of BH22-07-SS05)	BH22-08-SS-02	BH22-09-SS04	BH22-10-SS02	BH22-11-SS03	BH22-12-SS01	BH22-13-SS04	BH22-14-SS01	BH22-14-SS14 (Dup of BH22-14-SS01)
Sample Date				31-Oct-2022	1-Nov-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	31-Oct-2022	1-Nov-2022	1-Nov-2022	2-Nov-2022	1-Nov-2022	3-Nov-2022	3-Nov-2022
Sample Depth (m bgs)				0.8-0.9	2.9-3.0	2.4-2.5	1.5-1.6	3.3-3.4	2.9-3.0	4.5-4.6	4.5-4.6	1.4-1.5	2.4-2.5	1.4-1.5	2.4-2.5	0.8-0.9	2.9-3.0	0.9-1.0	0.9-1.0
Parameter	CCME[a]	MOE[b]	Units																
Benzo(a)pyrene total potency equivalents	**5.3**	n/g	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	**15**	<0.020	<0.020	<0.020	0.092	<0.020	0.702	0.095
Acenaphthene	n/g	**96**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	3.63	<0.0050	<0.0050	<0.0050	0.0063	<0.0050	0.143	<0.0050
Acenaphthylene	n/g	**0.17**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.366**	<0.0050	<0.0050	<0.0050	0.0062	<0.0050	0.0269	0.0064
Acridine	**n/g**	n/g	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	1.58	<0.010	<0.010	<0.010	<0.010	<0.010	0.041	<0.010
Anthracene	**32**	0.74	mg/kg	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	4.61	<0.0040	<0.0040	<0.0040	0.0164	<0.0040	0.287	0.0097
Fluorene	n/g	**69**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	4.52	<0.0050	<0.0050	<0.0050	0.0061	<0.0050	0.182	<0.0050
Naphthalene	**22**	28	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1.79	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.172	<0.0050
Phenanthrene	**50**	16	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	32.0	<0.0050	<0.0050	<0.0050	0.0716	<0.0050	1.29	0.0322
Benz(a)anthracene	**10** [c]	0.96	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**15.2**	<0.010	<0.010	<0.010	0.059	<0.010	0.627	0.058
Benzo(a)pyrene	**1.4**	0.3	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**12.5**	<0.0050	<0.0050	<0.0050	0.0603	<0.0050	0.471	0.0653
Benzo(b+j)fluoranthene	**10** [c]	0.96	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**16.1**	<0.010	<0.010	<0.010	0.083	<0.010	0.554	0.075
Benzo(g,h,i)perylene	n/g	**9.6**	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	4.63	<0.010	<0.010	<0.010	0.037	<0.010	0.178	0.040
Benzo(k)fluoranthene	**10** [c]	0.96	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	4.22	<0.010	<0.010	<0.010	0.028	<0.010	0.201	0.026
Chrysene	n/g	**9.6**	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	**13.5**	<0.010	<0.010	<0.010	0.065	<0.010	0.553	0.056
Dibenz(a,h)anthracene	**10** [c]	0.1	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1.51	<0.0050	<0.0050	<0.0050	0.0098	<0.0050	0.0652	0.0094
Fluoranthene	**180**	9.6	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	32.2	<0.0050	<0.0050	<0.0050	0.126	<0.0050	1.27	0.0703
Indeno(1,2,3-c,d)pyrene	**10** [c]	0.95	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	4.79	<0.010	<0.010	<0.010	0.036	<0.010	0.204	0.038
Methylnaphthalene, 1-	n/g	**85**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.834	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0669	<0.0050
Methylnaphthalene, 2-	n/g	**85**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1.27	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0921	<0.0050
Pyrene	**100** [c]	96	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	25.7	<0.0050	<0.0050	<0.0050	0.101	<0.0050	1.03	0.0619
Quinoline	**n/g**	n/g	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0917	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0076	<0.0050

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Fine Grain Soil, Human Health Guidelines 10^{-5} incremental risk.

[b] Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use, Fine Grain Soil).

[c] interim Soil Quality Criteria CCME 1991)
m bgs: meters below ground surface
mg/kg: milligrams per kilogram
< :Denotes concentration less than indicated detection limit
- :Not analyzed
n/g: no guideline
PAH: Polycyclic Aromatic Hydrocarbons
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2022 Sampling Event													
Sample ID				BH22-15-SS02	BH22-16-SS03	BH22-17-SS03	BH22-18-SS02	BH22-19-SS01	BH22-20-SS01	BH22-21-SS02	BH22-22-SS04	BH22-22-SS08 (Dup of BH22-22-SS04)	BH22-23-SS01	BH22-24-SS03	BH22-25-SS03	MW22-01-SS02	MW22-02-SS05	MW22-03-SS02	MW22-04-SS03
Sample Date				4-Nov-2022	4-Nov-2022	4-Nov-2022	6-Nov-2022	3-Nov-2022	3-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	4-Nov-2022	4-Nov-2022	5-Nov-2022	1-Nov-2022	31-Oct-2022	5-Nov-2022	4-Nov-2022
Sample Depth (m bgs)				2.4-2.5	2.9-3.0	2.1-2.2	2.4-2.5	0.8-0.9	0.8-0.9	2.0-2.1	2.9-3.0	2.9-3.0	1.1-1.2	2.7-2.8	2.6-2.7	1.4-1.5	3.9-4.0	3.6-3.7	2.9-3.0
Parameter	CCME[a]	MOE[b]	Units																
Benzo(a)pyrene total potency equivalents	**5.3**	n/g	mg/kg	0.122	1.61	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.197	<0.020	<0.020	<0.020	**6.91**
Acenaphthene	n/g	**96**	mg/kg	0.0118	0.0860	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0223	0.0142	<0.0050	<0.0050	1.46
Acenaphthylene	n/g	**0.17**	mg/kg	0.0069	0.0848	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0158	<0.0050	<0.0050	<0.0050	0.141
Acridine	**n/g**	n/g	mg/kg	0.024	0.120	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.109	<0.010	<0.010	<0.010	0.501
Anthracene	**32**	0.74	mg/kg	0.0208	0.217	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0476	<0.0040	<0.0040	<0.0040	2.40
Fluorene	n/g	**69**	mg/kg	0.0162	0.122	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0240	<0.0050	0.017	<0.0050	1.55
Naphthalene	**22**	28	mg/kg	0.0187	0.249	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0484	<0.0050	0.0299	<0.0050	0.686
Phenanthrene	**50**	16	mg/kg	0.106	0.872	0.0052	0.0083	0.0139	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.185	<0.0050	<0.0050	<0.0050	11.3
Benz(a)anthracene	**10** [c]	0.96	mg/kg	0.058	0.632	<0.010	<0.010	0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.113	<0.010	<0.010	<0.010	5.33
Benzo(a)pyrene	**1.4**	0.3	mg/kg	0.0846	1.15	0.0065	0.0104	0.0124	0.0059	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.136	<0.0050	<0.0050	<0.0050	**4.69**
Benzo(b+j)fluoranthene	**10** [c]	0.96	mg/kg	0.085	1.23	0.011	0.011	0.017	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.157	<0.010	<0.010	<0.010	5.37
Benzo(g,h,i)perylene	n/g	**9.6**	mg/kg	0.061	0.806	<0.010	0.012	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.081	<0.010	<0.010	<0.010	2.28
Benzo(k)fluoranthene	**10** [c]	0.96	mg/kg	0.034	0.264	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.050	<0.010	<0.010	<0.010	1.44
Chrysene	n/g	**9.6**	mg/kg	0.076	1.03	<0.010	0.014	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.157	<0.010	<0.010	<0.010	5.06
Dibenz(a,h)anthracene	**10** [c]	0.1	mg/kg	0.0141	0.173	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0203	<0.0050	<0.0050	<0.0050	0.697
Fluoranthene	**180**	9.6	mg/kg	0.110	1.10	0.0078	0.0088	0.0252	0.0063	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.188	<0.0050	<0.0050	<0.0050	12.5
Indeno(1,2,3-c,d)pyrene	**10** [c]	0.95	mg/kg	0.043	0.558	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.069	<0.010	<0.010	<0.010	2.43
Methylnaphthalene, 1-	n/g	**85**	mg/kg	0.0219	0.152	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0374	<0.0050	0.128	<0.0050	0.373
Methylnaphthalene, 2-	n/g	**85**	mg/kg	0.0469	0.418	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0804	<0.0050	0.203	<0.0050	0.711
Pyrene	**100** [c]	96	mg/kg	0.122	1.90	0.0069	0.0121	0.0222	0.0052	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.350	<0.0050	<0.0050	<0.0050	10.3
Quinoline	**n/g**	n/g	mg/kg	<0.0050	0.0058	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0414

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Fine Grain Soil, Human Health Guidelines 10^{-5} incremental risk.*

[b] *Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use, Fine Grain Soil).*

[c] *interim Soil Quality Criteria CCME 1991)*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

- :Not analyzed

n/g: no guideline

PAH: Polycyclic Aromatic Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

Sampling Event				2022 Sampling Event			
Sample ID				MW22-05-SS01	ST-A1	ST-A2	C-LD
Sample Date				4-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022
Sample Depth (m bgs)				1.1-1.2	0.3	0.3	0.3
Parameter	CCME[a]	MOE[b]	Units				
Benzo(a)pyrene total potency equivalents	**5.3**	n/g	mg/kg	0.088	<0.020	<0.020	<0.020
Acenaphthene	n/g	**96**	mg/kg	0.0053	<0.0050	<0.0050	<0.0050
Acenaphthylene	n/g	**0.17**	mg/kg	0.0058	<0.0050	<0.0050	<0.0050
Acridine	**n/g**	n/g	mg/kg	<0.010	<0.010	<0.010	<0.010
Anthracene	**32**	0.74	mg/kg	0.0149	<0.0040	<0.0040	<0.0040
Fluorene	n/g	**69**	mg/kg	0.0071	<0.0050	<0.0050	<0.0050
Naphthalene	**22**	28	mg/kg	0.0051	<0.0050	<0.0050	<0.0050
Phenanthrene	**50**	16	mg/kg	0.0576	<0.0050	0.0069	0.0097
Benz(a)anthracene	**10** [c]	0.96	mg/kg	0.049	<0.010	<0.010	<0.010
Benzo(a)pyrene	**1.4**	0.3	mg/kg	0.0602	<0.0050	<0.0050	<0.0050
Benzo(b+j)fluoranthene	**10** [c]	0.96	mg/kg	0.070	<0.010	<0.010	<0.010
Benzo(g,h,i)perylene	n/g	**9.6**	mg/kg	0.037	<0.010	<0.010	<0.010
Benzo(k)fluoranthene	**10** [c]	0.96	mg/kg	0.022	<0.010	<0.010	<0.010
Chrysene	n/g	**9.6**	mg/kg	0.058	<0.010	<0.010	<0.010
Dibenz(a,h)anthracene	**10** [c]	0.1	mg/kg	0.0093	<0.0050	<0.0050	<0.0050
Fluoranthene	**180**	9.6	mg/kg	0.103	0.0092	0.0124	0.0157
Indeno(1,2,3-c,d)pyrene	**10** [c]	0.95	mg/kg	0.032	<0.010	<0.010	<0.010
Methylnaphthalene, 1-	n/g	**85**	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050
Methylnaphthalene, 2-	n/g	**85**	mg/kg	0.0079	<0.0050	<0.0050	<0.0050
Pyrene	**100** [c]	96	mg/kg	0.0907	0.0064	0.0087	0.0110
Quinoline	**n/g**	n/g	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Industrial Land Use, Fine Grain Soil, Human Health Guidelines 10^{-5} incremental risk.

[b] Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Industrial Land Use, Fine Grain Soil).

[c] interim Soil Quality Criteria CCME 1991)
m bgs: meters below ground surface
mg/kg: milligrams per kilogram
< :Denotes concentration less than indicated detection limit
- :Not analyzed
n/g: no guideline
PAH: Polycyclic Aromatic Hydrocarbons
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

AECOM

			2023 Sampling Event (Parcel A)																
Sample ID:	**SQG** [a]	**Units**	BH-23-01-03	BH-23-01-06	BH-23-01-10	BH-23-02-02	BH-23-02-10	BH-23-02-06	BH-23-03-02	BH-23-03-06	BH-23-03-11	BH-23-04-02	BH-23-04-04	BH-23-04-06	BH-23-04-10	BH-23-13-02	BH-23-13-05	BH-23-13-08	DUP-01 (Dup of BH-23-13-08)
Date Sampled (mm/dd/yyyy):			30-May-2023	30-May-2023	30-May-2023	31-May-2023	45077	31-May-2023	30-May-2023	30-May-2023	30-May-2023	45076	30-May-23	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023	30-May-2023
Depth (m bgs)			1.4-1.6	2.9-3.1	4.9-5.1	0.9-1.1	2.9-3.1	4.9-5.1	0.9-1.1	2.9-3.1	5.4-5.6	0.9-1.1	1.9-2.1	2.9-3.1	4.9-5.1	0.9-1.1	2.4-2.6	3.9-4.1	3.9-4.1
Aluminum (Al)	**NG**	mg/kg	18,800	25,500	25,200	23,000	23,600	5,680	18,100	9,890	31,300	24,300	24,200	32,900	26,400	20,800	24,200	9,690	8,890
Antimony (Sb)	**40**	mg/kg	1.06	0.69	0.49	0.58	0.59	0.13	0.63	0.16	0.51	0.60	7.54	0.45	0.47	0.43	2.74	0.23	0.20
Arsenic (As)	**12**	mg/kg	7.05	7.88	9.28	9.44	**15.1**	2.15	6.66	3.40	9.35	9.73	**16.4**	9.95	10.7	7.30	8.45	5.10	4.06
Barium (Ba)	**2,000**	mg/kg	183	225	151	248	253	46.0	166	89.2	214	254	653	203	408	186	322	65.4	60.9
Beryllium (Be)	**8**	mg/kg	0.85	1.10	1.29	1.21	1.28	0.24	0.86	0.44	1.46	1.16	0.88	1.38	1.37	0.93	0.96	0.45	0.38
Bismuth (Bi)	**NG**	mg/kg	0.41	0.67	0.32	0.37	0.31	<0.20	0.32	<0.20	0.36	0.37	7.62	0.32	0.33	0.25	1.65	<0.20	<0.20
Boron (B)	**120** [b]	mg/kg	20.4	24.6	18.5	19.4	15.9	14.0	18.5	18.5	22.8	19.3	21.4	22.6	21.0	18.4	21.2	15.1	14.6
Cadmium (Cd)	**22**	mg/kg	1.16	0.533	0.224	0.493	1.36	0.077	0.495	0.126	0.328	0.419	20.1	0.240	0.292	0.297	5.28	0.215	0.208
Calcium (Ca)	**NG**	mg/kg	59,700	50,000	21,800	56,800	24,400	133,000	75,500	142,000	23,000	42,700	74,400	18,800	18,700	52,000	64,100	98,100	95,400
Chromium (Cr)	**87**	mg/kg	51.8	57.2	49.2	60.8	46.4	14.7	60.1	24.4	65.1	56.3	**1,570**	60.9	52.0	44.5	**340**	23.6	21.4
Chromium, hexavalent (Cr VI)	**1.4**	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (Co)	**300**	mg/kg	11.0	12.6	16.1	14.1	18.9	3.12	9.98	6.63	21.6	15.0	7.82	16.4	23.7	11.9	9.44	6.42	5.89
Copper (Cu)	**91**	mg/kg	36.8	39.2	40.0	36.8	41.5	8.42	30.0	15.0	41.5	37.4	**483**	33.4	38.4	28.2	**128**	15.2	13.8
Iron (Fe)	**NG**	mg/kg	24,400	30,200	35,300	31,700	37,600	8,440	23,100	15,100	41,600	32,600	19,300	37,500	34,500	28,100	26,500	15,400	13,700
Lead (Pb)	**600**	mg/kg	68.9	29.7	15.0	20.2	15.5	3.52	22.2	6.20	16.8	19.1	**615**	16.8	15.0	12.9	166	6.54	6.09
Lithium (Li)	**NG**	mg/kg	26.4	31.9	32.8	32.0	29.8	9.6	25.3	20.5	46.6	32.0	16.8	33.0	31.5	28.2	27.6	15.8	14.2
Magnesium (Mg)	**NG**	mg/kg	35,000	27,700	14,700	29,500	16,000	75,200	36,100	76,900	18,400	25,400	28,000	19,400	13,000	30,600	28,100	51,400	52,600
Manganese (Mn)	**NG**	mg/kg	469	515	464	529	647	276	436	401	684	598	311	749	1480	420	498	502	459
Molybdenum (Mo)	**40**	mg/kg	0.87	0.68	1.36	1.19	1.73	0.13	0.76	0.76	1.30	1.38	4.04	0.32	2.30	0.85	1.68	0.77	0.69
Nickel (Ni)	**89**	mg/kg	31.4	37.6	46.0	43.1	48.3	9.23	30.7	19.3	55.9	42.9	91.1	48.2	48.5	35.7	46.4	19.3	17.2
Phosphorus (P)	**NG**	mg/kg	702	849	618	675	591	409	657	411	674	635	13,800	570	578	527	3,310	464	416
Potassium (K)	**NG**	mg/kg	3,940	4,900	4,660	4,270	4,620	1320	3350	2140	6,930	4,830	2,020	5910	4,940	4150	3,630	1,940	1790
Selenium (Se)	**2.9**	mg/kg	0.36	0.29	2.59	0.50	0.70	<0.20	0.26	<0.20	0.95	0.70	2.02	<0.20	0.41	0.45	0.58	<0.20	<0.20
Silver (Ag)	**40**	mg/kg	0.59	0.71	0.15	0.51	0.14	<0.10	0.93	<0.10	0.19	0.48	43.8	0.27	0.14	0.20	10.8	<0.10	<0.10
Sodium (Na)	**NG**	mg/kg	630	773	553	606	354	275	412	819	2,160	1010	1,200	390	380	701	1210	368	359
Strontium (Sr)	**NG**	mg/kg	70.7	83.7	84.0	93.0	82.4	44.9	75.8	64.2	94.4	91.0	198	49.5	85.0	69.0	119	60.2	62.9
Sulfur (S)	**NG**	mg/kg	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	6,900	2,700	8,600	<1000	<1000	1,600	6,400	<1000	<1000
Thallium (Tl)	**1**	mg/kg	0.284	0.310	0.328	0.321	0.308	0.085	0.251	0.166	0.478	0.329	0.470	0.387	0.293	0.296	0.380	0.190	0.168
Tin (Sn)	**300**	mg/kg	5.1	3.2	<2.0	<2.0	<2.0	<2.0	4.4	<2.0	<2.0	<2.0	115	<2.0	<2.0	<2.0	25.7	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	318	290	160	187	130	321	263	476	337	199	135	271	145	336	198	318	350
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8.42	<0.50	<0.50	<0.50	1.40	<0.50	<0.50
Uranium (U)	**300**	mg/kg	1.44	2.06	2.59	1.92	1.92	0.626	1.26	1.35	3.67	2.27	6.44	1.07	1.62	1.60	2.64	0.997	0.886
Vanadium (V)	**130**	mg/kg	60.8	78.5	77.1	72.4	74.2	22.6	56.6	33.4	92.5	75.0	46.4	95.8	86.6	64.9	68.3	36.5	32.5
Zinc (Zn)	**410**	mg/kg	96.2	110	98.4	99.6	98.3	16.2	85.0	32.8	116	97.1	**1,610**	98.8	90.1	73.7	441	35.0	31.2
Zirconium (Zr)	**NG**	mg/kg	13.5	10.4	16.6	16.7	16.9	8.3	11.2	14.5	26.0	17.0	3.6	13.7	13.6	17.8	3.2	11.8	11.9

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

SQG - soil quality guideline.

m bgs - metres below ground surface.

mg/kg - milligram per kilogram.

NG - No Guideline.

"-" - Not Analyzed.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

			2023 Sampling Event (Parcel B)																
Sample ID:	**SQG** [a]	**Units**	BH-23-08-03	BH-23-08-06	BH-23-08-10	DUP-3 (Dup of BH-23-08-10)	BH-23-10-02	BH-23-10-04	BH-23-10-09	BH-23-11-03	BH-23-11-06	BH-23-11-11	BH-23-12-02	BH-23-12-06	DUP-02 (Dup of BH-23-12-06)	BH-23-12-10	BH-23-05-03	BH-23-05-06	BH-23-05-10
Date Sampled (mm/dd/yyyy):			01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	31-May-2023	01-Jun-2023	45078	01-Jun-2023
Depth (m bgs)			1.4-1.6	2.9-3.1	4.9-5.1	4.9-5.1	0.9-1.1	1.9-2.1	4.4-4.6	1.4-1.6	2.9-3.1	4.9-5.1	0.9-1.1	2.9-3.1	2.9-3.1	4.9-5.1	1.4-1.6	2.9-3.1	4.9-5.1
Aluminum (Al)	**NG**	mg/kg	26,900	29,700	25,300	28,000	26,500	26,800	26,100	32,800	28,300	26,900	19,800	10,400	7,680	26,000	29,200	19,300	28,700
Antimony (Sb)	**40**	mg/kg	0.36	0.35	0.45	0.48	0.41	0.43	0.47	0.36	0.42	0.50	0.39	0.16	0.12	0.44	0.61	0.28	0.42
Arsenic (As)	**12**	mg/kg	7.47	7.82	7.47	7.22	7.40	9.95	11.2	8.80	8.61	9.86	6.57	3.75	2.43	10.2	9.57	5.22	**14.1**
Barium (Ba)	**2,000**	mg/kg	191	390	254	232	185	255	232	182	268	177	161	80.2	62.9	180	226	173	206
Beryllium (Be)	**8**	mg/kg	1.12	1.27	1.24	1.35	1.06	1.24	1.32	1.28	1.32	1.29	0.84	0.49	0.35	1.30	1.24	0.71	1.43
Bismuth (Bi)	**NG**	mg/kg	0.26	0.31	0.30	0.32	0.32	0.30	0.32	0.28	0.30	0.34	0.27	<0.20	<0.20	0.32	0.40	<0.20	0.33
Boron (B)	**120** [b]	mg/kg	19.6	23.5	18.0	19.4	25.1	22.2	18.6	25.0	22.4	16.9	17.4	16.5	15.9	15.5	24.9	19.0	28.8
Cadmium (Cd)	**22**	mg/kg	0.346	0.161	0.276	0.329	0.381	0.220	0.342	0.163	0.219	0.289	0.268	0.118	0.109	0.191	0.590	0.200	0.214
Calcium (Ca)	**NG**	mg/kg	16,000	10,500	22,900	19,600	30,000	32,200	16,400	33,700	13,100	19,800	60,800	129,000	131,000	21,100	55,300	79,900	24,800
Chromium (Cr)	**87**	mg/kg	47.5	69.2	46.7	50.2	45.7	54.7	52.5	54.4	63.3	45.4	46.7	25.2	18.4	48.4	73.7	43.3	53.4
Chromium, hexavalent (Cr VI)	**1.4**	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (Co)	**300**	mg/kg	13.9	17.1	13.9	14.6	12.4	15.8	20.7	14.5	16.4	15.0	11.7	6.44	4.89	16.5	15.3	10.8	17.0
Copper (Cu)	**91**	mg/kg	30.5	43.0	36.5	38.4	31.2	34.4	35.1	30.0	40.7	33.6	27.7	15.5	11.3	35.3	37.4	25.5	38.2
Iron (Fe)	**NG**	mg/kg	30,600	38,800	31,700	33,700	28,400	34,900	35,700	34,000	35,900	33,400	25,300	15,800	11,200	35,000	31,700	24,300	39,300
Lead (Pb)	**600**	mg/kg	17.2	14.6	14.0	14.7	20.7	14.1	15.4	14.0	14.5	16.4	17.1	6.44	4.86	15.1	24.0	9.67	16.2
Lithium (Li)	**NG**	mg/kg	26.4	53.2	31.9	34.9	29.7	42.4	36.0	37.9	43.9	31.2	27.2	19.4	14.6	33.0	34.5	32.4	37.4
Magnesium (Mg)	**NG**	mg/kg	15,400	17,800	15,200	15,300	23,600	24,800	14,500	25,300	18,200	14,000	35,900	73,300	72,900	14,000	26,000	39,800	14,100
Manganese (Mn)	**NG**	mg/kg	632	494	469	517	655	548	499	668	538	484	472	381	273	462	659	450	494
Molybdenum (Mo)	**40**	mg/kg	0.53	0.96	1.14	1.16	0.47	1.34	1.07	0.47	0.96	1.15	0.79	0.36	0.28	1.39	0.81	0.46	1.36
Nickel (Ni)	**89**	mg/kg	36.5	53.2	42.8	44.9	34.3	44.6	47.0	44.2	48.3	44.4	34.1	18.7	13.3	45.0	43.2	32.5	47.9
Phosphorus (P)	**NG**	mg/kg	474	640	586	560	629	545	578	520	559	534	542	420	377	568	621	538	572
Potassium (K)	**NG**	mg/kg	5,130	6,990	4,490	5,530	5,320	5,180	5,420	5,440	5,840	4,900	3,650	2390	1,770	5170	4,900	3,760	5,490
Selenium (Se)	**2.9**	mg/kg	0.37	<0.20	0.82	1.00	0.37	<0.20	0.60	<0.20	<0.20	0.79	<0.20	<0.20	<0.20	0.61	0.25	<0.20	1.56
Silver (Ag)	**40**	mg/kg	0.19	0.12	0.14	0.16	0.24	0.14	0.14	0.17	0.18	0.14	0.29	<0.10	<0.10	0.14	0.83	0.12	0.13
Sodium (Na)	**NG**	mg/kg	614	1,350	1,020	1,000	694	569	459	941	922	898	657	370	329	417	669	631	470
Strontium (Sr)	**NG**	mg/kg	67.0	85.0	87.2	85.8	70.6	67.0	82.3	74.0	71.3	79.7	65.6	62.0	54.1	81.0	82.2	80.8	87.1
Sulfur (S)	**NG**	mg/kg	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	2,800
Thallium (Tl)	**1**	mg/kg	0.315	0.434	0.294	0.309	0.312	0.356	0.351	0.347	0.373	0.282	0.273	0.163	0.127	0.329	0.337	0.297	0.350
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4.2	<2.0	<2.0	<2.0	2.7	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	192	583	144	157	194	282	157	257	327	116	300	473	426	105	282	740	178
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	1.81	2.00	2.65	2.80	1.16	1.36	2.12	3.34	1.96	2.21	1.32	0.910	0.773	2.02	1.75	1.10	2.35
Vanadium (V)	**130**	mg/kg	78.5	93.6	74.8	79.3	72.3	80.9	79.3	91.5	94.5	75.6	59.7	33.3	25.9	73.8	89.5	58.1	89.2
Zinc (Zn)	**410**	mg/kg	91.1	105	94.3	95.2	105	92.3	100	90.1	98.6	93.3	71.4	34.2	24.9	97.0	109	62.9	102
Zirconium (Zr)	**NG**	mg/kg	12.0	23.7	15.0	15.5	8.1	17.5	17.0	9.3	20.7	13.2	13.4	15.0	12.5	15.5	11.4	17.7	10.3

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

SQG - soil quality guideline.

m bgs - metres below ground surface.

mg/kg - milligram per kilogram.

NG - No Guideline.

"-" - Not Analyzed.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

			2023 Sampling Event (Parcel B)										2022 Sampling Event						
Sample ID:	**SQG** [a]	**Units**	BH-23-06-02	BH-23-06-05	BH-23-06-09	BH-23-07-03	BH-23-07-06	DUP-4 (Dup of BH-23-07-06)	BH-23-07-11	BH-23-09-03	BH-23-09-06	BH-23-09-09	BH22-01 SS01	BH22-01 SS03	BH22-01 SS06	BH22-02 SS01	BH22-02 SS02	BH22-02 SS04	BH22-03 SS01
Date Sampled (mm/dd/yyyy):			01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	01-Jun-2023	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022
Depth (m bgs)			0.9-1.1	2.4-2.6	4.4-4.6	1.4-1.6	2.9-3.1	2.9-3.1	5.4-5.6	1.4-1.6	2.9-3.1	4.4-4.6	0.8-0.9	2.4-2.5	4.5-4.6	0.1-0.2	1.4-1.5	2.9-3.0	0.2-0.3
Aluminum (Al)	**NG**	mg/kg	20,000	26,500	31,900	18,800	9,980	7,850	26,300	42,200	6,130	34,600	28,600	3,910	28,700	21,800	33,700	4,310	27,100
Antimony (Sb)	**40**	mg/kg	0.72	0.40	0.24	3.77	0.17	0.15	0.50	0.40	0.12	0.49	0	<0.10	0	0	0	<0.10	1
Arsenic (As)	**12**	mg/kg	6.46	8.30	6.08	**12.6**	3.26	3.13	11.2	10.9	2.76	9.56	10	2	9	8	9	2	7
Barium (Ba)	**2,000**	mg/kg	203	247	343	578	81.0	72.9	202	248	45.6	306	233	30	142	198	233	27	180
Beryllium (Be)	**8**	mg/kg	0.90	1.23	0.98	0.80	0.44	0.33	1.36	1.50	0.26	1.47	1	0	1	1	1	0	1
Bismuth (Bi)	**NG**	mg/kg	0.57	0.28	0.27	4.78	<0.20	<0.20	0.32	0.30	<0.20	0.35	0	<0.20	0	0	0	<0.20	0
Boron (B)	**120** [b]	mg/kg	20.4	24.3	18.4	21.6	16.3	16.4	18.8	27.8	16.6	26.3	21	10	21	17	25	12	20
Cadmium (Cd)	**22**	mg/kg	0.584	0.255	0.138	11.2	0.119	0.107	0.238	0.330	0.088	0.269	0	0	0	0	0	0	0
Calcium (Ca)	**NG**	mg/kg	67,700	51,800	19,000	62,800	119,000	133,000	20,500	19,600	144,000	21,700	32,200	90,700	27,800	52,000	61,400	102,000	38,500
Chromium (Cr)	**87**	mg/kg	73.8	55.3	71.9	**729**	23.7	20.3	53.1	70.2	17.1	70.2	54	11	57	44	50	12	42
Chromium, hexavalent (Cr VI)	**1.4**	mg/kg	-	-	-	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (Co)	**300**	mg/kg	9.61	14.7	20.0	9.17	6.55	4.52	15.9	19.6	3.66	16.8	15	2	16	12	13	3	11
Copper (Cu)	**91**	mg/kg	34.8	31.2	46.3	340	13.8	11.2	33.2	38.8	8.67	39.8	34	5	31	30	28	6	28
Iron (Fe)	**NG**	mg/kg	23,500	33,200	40,200	20,600	14,700	11,600	36,700	42,200	9,860	41,600	32,700	6,340	34,600	24,900	28,700	6,710	25,000
Lead (Pb)	**600**	mg/kg	31.6	13.5	13.9	445	6.12	4.95	15.6	15.7	3.38	16.0	13	3	14	17	13	3	23
Lithium (Li)	**NG**	mg/kg	28.6	42.6	66.8	16.1	17.4	13.9	33.3	40.2	11.2	46.6	43	7	38	28	36	8	26
Magnesium (Mg)	**NG**	mg/kg	36,700	29,700	22,400	24,500	69,000	82,200	14,100	20,000	88,800	20,300	25,700	59,700	16,700	31,700	27,700	64,000	21,900
Manganese (Mn)	**NG**	mg/kg	447	442	626	436	404	285	458	1090	250	668	564	195	433	480	722	193	541
Molybdenum (Mo)	**40**	mg/kg	0.76	1	0.56	2.16	0.31	0.25	1.29	0.60	0.21	1.13	2	0	1	1	0	0	0
Nickel (Ni)	**89**	mg/kg	32.8	42.6	57.0	62.2	18.2	14.0	48.4	54.4	11.2	55.3	45	7	46	35	39	8	32
Phosphorus (P)	**NG**	mg/kg	691	514	687	8,070	364	388	571	626	394	635	538	394	549	586	504	406	614
Potassium (K)	**NG**	mg/kg	3,420	4190	8190	2,600	2,220	1,620	5,060	7,920	1,260	7,170	4,790	750	6,120	3,600	4,900	890	4,950
Selenium (Se)	**2.9**	mg/kg	0.20	<0.20	<0.20	1.27	<0.20	<0.20	1.05	0.34	<0.20	0.49	<0.20	<0.20	0	0	<0.20	<0.20	0
Silver (Ag)	**40**	mg/kg	1.32	0.14	0.12	27.3	<0.10	<0.10	0.19	0.16	<0.10	0.16	0	<0.10	0	0	0	<0.10	0
Sodium (Na)	**NG**	mg/kg	738	531	1,190	1200	448	382	517	387	264	580	2,240	601	2,030	369	283	218	286
Strontium (Sr)	**NG**	mg/kg	75.4	93.8	86.5	148	60.8	61.4	83.3	60.7	55.9	87.1	75	38	85	70	127	40	74
Sulfur (S)	**NG**	mg/kg	<1000	<1000	<1000	6,200	<1000	<1000	<1000	<1000	<1000	<1000	4,100	<1000	12,400	<1000	<1000	<1000	<1000
Thallium (Tl)	**1**	mg/kg	0.277	0.339	0.537	0.402	0.152	0.129	0.304	0.398	0.086	0.485	0	0	0	0	0	0	0
Tin (Sn)	**300**	mg/kg	4.0	<2.0	<2.0	68.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	4
Titanium (Ti)	**NG**	mg/kg	285	335	1,440	189	486	434	151	267	417	378	298	315	335	212	273	330	142
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	2.54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	1.82	1.62	1.62	3.60	0.897	0.880	2.07	1.16	0.667	2.23	3	1	3	2	2	1	2
Vanadium (V)	**130**	mg/kg	61.8	84.7	79.0	46.2	32.6	27.3	82.9	122	23.8	103	82	15	87	62	94	16	70
Zinc (Zn)	**410**	mg/kg	93.8	84.2	110	958	30.9	24.1	104	116	17.8	116	87	11	97	76	79	12	90
Zirconium (Zr)	**NG**	mg/kg	9.7	17.3	28.6	1.5	13.7	11.2	15.7	13.1	9.2	20.6	19	7	24	14	9	8	8

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

SQG - soil quality guideline.

m bgs - metres below ground surface.

mg/kg - milligram per kilogram.

NG - No Guideline.

"-" - Not Analyzed.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

			2022 Sampling Event																
Sample ID:	**SQG** [a]	**Units**	BH22-03 SS02	BH22-03 SS04	BH22-03 SS06	BH22-04 SS01	BH22-04 SS02	BH22-04 SS04	BH22-05 SS02	BH22-05 SS04	BH22-05 SS06	BH22-05 SS08 (Dup of BH22-05-SS06)	BH22-06 SS02	BH22-06 SS03	BH22-06 SS05	BH22-07 SS01	BH22-07 SS03	BH22-07 SS05	BH22-07 SS06 (Dup of BH22-07-SS05)
Date Sampled (mm/dd/yyyy):			31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	31-Oct-2022	2-Nov-2022	2-Nov-2022	2-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022
Depth (m bgs)			0.8-0.9	2.4-2.5	3.7-3.8	0.2-0.3	1.5-1.6	2.9-3.0	1.5-1.6	3.3-3.4	4.5-4.6	4.5-4.6	2.1-2.2	2.9-3.0	4.5-4.6	1.2-1.3	2.9-3.0	4.5-4.6	4.5-4.6
Aluminum (Al)	**NG**	mg/kg	32,200	6,350	29,200	8,230	26,800	6,070	21,300	5,410	9,730	12,800	33,200	5,830	18,600	7,100	17,000	12,300	12,600
Antimony (Sb)	**40**	mg/kg	0	0	0	0	0	0	1	<0.10	0	1	0	0	1	0	0	0	0
Arsenic (As)	**12**	mg/kg	9	2	9	4	8	2	8	2	10	10	10	2	10	2	6	5	5
Barium (Ba)	**2,000**	mg/kg	247	50	234	98	197	47	231	55	253	249	216	40	284	59	132	115	101
Beryllium (Be)	**8**	mg/kg	1	0	1	0	1	0	1	0	0	1	1	0	1	0	1	0	0
Bismuth (Bi)	**NG**	mg/kg	0	<0.20	0	<0.20	0	<0.20	2	<0.20	<0.20	0	0	<0.20	0	<0.20	<0.20	<0.20	<0.20
Boron (B)	**120** [b]	mg/kg	28	14	19	12	18	13	16	13	8	9	25	14	12	14	16	15	15
Cadmium (Cd)	**22**	mg/kg	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Calcium (Ca)	**NG**	mg/kg	58,900	114,000	15,500	90,500	65,200	108,000	65,400	113,000	46,400	42,200	52,900	116,000	30,600	103,000	84,600	76,800	78,000
Chromium (Cr)	**87**	mg/kg	49	16	56	21	46	15	**138**	13	17	22	58	14	31	17	34	25	24
Chromium, hexavalent (Cr VI)	**1.4**	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (Co)	**300**	mg/kg	13	4	15	8	13	4	10	3	5	8	15	3	10	4	11	7	7
Copper (Cu)	**91**	mg/kg	29	9	36	13	28	9	53	7	22	25	33	8	31	9	22	18	16
Iron (Fe)	**NG**	mg/kg	27,700	8,740	33,700	10,800	27,600	8,740	20,900	7,720	20,900	22,200	35,300	8,140	26,100	9,300	19,500	15,100	14,400
Lead (Pb)	**600**	mg/kg	12	4	15	8	12	4	75	3	10	11	13	4	13	4	9	8	7
Lithium (Li)	**NG**	mg/kg	36	11	41	12	28	11	22	10	13	16	40	11	23	11	24	17	16
Magnesium (Mg)	**NG**	mg/kg	25,700	74,600	18,000	60,400	27,700	68,400	40,500	67,500	16,900	15,700	29,400	72,000	16,200	66,100	56,900	49,500	52,400
Manganese (Mn)	**NG**	mg/kg	563	222	347	513	476	244	458	232	294	383	468	226	403	243	573	417	394
Molybdenum (Mo)	**40**	mg/kg	1	0	1	0	0	0	1	0	1	1	1	0	2	0	1	1	1
Nickel (Ni)	**89**	mg/kg	38	11	47	17	37	11	33	11	23	26	46	10	33	11	30	23	21
Phosphorus (P)	**NG**	mg/kg	523	337	575	416	465	329	1,350	330	709	679	549	349	603	400	453	520	554
Potassium (K)	**NG**	mg/kg	4,350	1,360	5,850	1,500	4,320	1,210	3,280	1,100	1,330	1,790	5,170	1,060	2,550	1,370	3,050	2,280	2,210
Selenium (Se)	**2.9**	mg/kg	<0.20	<0.20	2	<0.20	<0.20	<0.20	0	<0.20	1	1	<0.20	<0.20	0	<0.20	<0.20	<0.20	<0.20
Silver (Ag)	**40**	mg/kg	0	<0.10	0	0	0	<0.10	3	<0.10	0	0	0	<0.10	0	<0.10	<0.10	<0.10	<0.10
Sodium (Na)	**NG**	mg/kg	1,440	537	2,360	268	436	281	348	267	292	331	522	292	414	241	367	329	337
Strontium (Sr)	**NG**	mg/kg	145	50	71	46	80	45	80	49	77	78	80	57	82	47	68	56	51
Sulfur (S)	**NG**	mg/kg	1,800	<1000	3,800	<1000	<1000	<1000	<1000	<1000	7,900	8,800	<1000	<1000	<1000	<1000	<1000	<1000	<1000
Thallium (Tl)	**1**	mg/kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	11	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	244	362	297	302	257	336	224	330	142	124	338	336	119	373	429	359	409
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	4	1	3	1	1	1	2	1	2	2	6	1	2	1	1	1	1
Vanadium (V)	**130**	mg/kg	94	21	84	28	75	21	57	19	32	38	99	21	50	24	48	40	38
Zinc (Zn)	**410**	mg/kg	78	18	95	27	72	19	152	16	56	64	85	16	77	21	48	42	37
Zirconium (Zr)	**NG**	mg/kg	11	9	19	8	13	9	3	8	11	11	18	9	11	9	15	13	12

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

SQG - soil quality guideline.

m bgs - metres below ground surface.

mg/kg - milligram per kilogram.

NG - No Guideline.

"-" - Not Analyzed.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

			2022 Sampling Event																
Sample ID:	**SQG [a]**	**Units**	BH22-08 SS01	BH22-08 SS02	BH22-08 SS04	BH22-09 SS01	BH22-09 SS02	BH22-09 SS04	BH22-09 SS06	BH22-10 SS02	BH22-10 SS04	BH22-10 SS06	BH22-11 SS01	BH22-11 SS03	BH22-11 SS05	BH22-12 SS01	BH22-12 SS03	BH22-12 SS05	BH22-13 SS01
Date Sampled (mm/dd/yyyy):			1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	2-Nov-2022	2-Nov-2022	2-Nov-2022	1-Nov-2022
Depth (m bgs)			0.8-0.9	1.4-1.5	3.0-3.1	0.1-0.2	0.8-0.9	2.4-2.5	3.9-4.0	1.4-1.5	3.0-3.1	4.5-4.6	0.8-0.9	2.4-2.5	3.9-4.0	0.8-0.9	2.3-2.4	3.7-3.8	0.1-0.2
Aluminum (Al)	**NG**	mg/kg	18,700	27,000	27,900	27,100	34,700	9,810	25,600	28,600	5,200	36,000	19,800	9,190	25,500	21,600	11,300	28,200	17,000
Antimony (Sb)	**40**	mg/kg	6	5	0	0	0	0	0	0	<0.10	0	0	0	0	0	0	0	0
Arsenic (As)	**12**	mg/kg	7	**15**	10	9	8	4	10	9	2	11	6	4	7	6	3	10	6
Barium (Ba)	**2,000**	mg/kg	194	401	204	205	199	105	132	232	46	246	159	67	246	160	73	249	165
Beryllium (Be)	**8**	mg/kg	1	1	1	1	1	0	1	1	0	1	1	0	1	1	0	1	1
Bismuth (Bi)	**NG**	mg/kg	2	5	0	0	0	<0.20	0	0	<0.20	0	0	<0.20	0	0	<0.20	0	0
Boron (B)	**120** [b]	mg/kg	59	23	20	18	30	13	16	21	13	23	16	15	19	17	15	18	19
Cadmium (Cd)	**22**	mg/kg	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calcium (Ca)	**NG**	mg/kg	70,700	48,000	54,700	36,100	32,600	77,900	36,200	69,200	124,000	20,000	73,400	112,000	78,600	46,100	90,100	21,100	88,400
Chromium (Cr)	**87**	mg/kg	75	**513**	51	47	52	22	47	47	12	69	45	21	47	41	24	51	36
Chromium, hexavalent (Cr VI)	**1.4**	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (Co)	**300**	mg/kg	10	12	15	15	14	6	14	16	3	24	9	5	13	10	5	17	9
Copper (Cu)	**91**	mg/kg	44	**302**	31	32	29	14	33	29	7	44	24	14	29	27	14	36	23
Iron (Fe)	**NG**	mg/kg	19,900	28,700	31,300	31,500	31,400	13,000	28,400	28,000	7,370	41,300	21,400	12,600	26,600	22,200	12,500	32,200	20,200
Lead (Pb)	**600**	mg/kg	69	338	14	15	14	6	14	13	3	17	16	6	13	25	6	15	17
Lithium (Li)	**NG**	mg/kg	24	24	33	29	41	16	31	31	9	47	23	16	33	24	17	34	20
Magnesium (Mg)	**NG**	mg/kg	43,700	22,600	25,700	21,900	25,600	52,900	15,100	24,500	67,200	19,300	37,200	70,100	28,700	26,800	59,100	19,200	45,400
Manganese (Mn)	**NG**	mg/kg	472	416	576	551	728	390	459	613	239	604	375	290	451	440	261	817	387
Molybdenum (Mo)	**40**	mg/kg	1	3	1	1	0	1	1	0	0	1	1	0	0	1	0	1	1
Nickel (Ni)	**89**	mg/kg	30	70	44	43	40	17	44	39	10	57	27	15	38	31	16	47	25
Phosphorus (P)	**NG**	mg/kg	808	6,000	534	608	567	450	527	493	294	712	490	378	444	574	451	603	594
Potassium (K)	**NG**	mg/kg	3,170	3,590	4,780	4,690	5,740	1,800	4,690	4,020	1,070	7,490	3,290	1,860	3,990	3,780	1,880	5,210	3,290
Selenium (Se)	**2.9**	mg/kg	0	1	<0.20	0	0	<0.20	1	<0.20	<0.20	1	<0.20	<0.20	<0.20	0	<0.20	1	0
Silver (Ag)	**40**	mg/kg	2	19	0	0	0	<0.10	0	0	<0.10	0	1	<0.10	0	0	0	0	0
Sodium (Na)	**NG**	mg/kg	632	765	414	298	1,700	684	1,610	554	240	601	420	349	407	395	300	1,270	289
Strontium (Sr)	**NG**	mg/kg	69	103	75	79	112	54	86	110	47	89	69	54	121	68	57	80	79
Sulfur (S)	**NG**	mg/kg	<1000	9,200	<1000	<1000	2,900	<1000	21,500	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	3,700	1,400
Thallium (Tl)	**1**	mg/kg	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Tin (Sn)	**300**	mg/kg	27	49	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	324	146	309	126	218	319	159	230	292	463	208	415	357	177	397	167	263
Tungsten (W)	**NG**	mg/kg	<0.50	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	2	4	2	2	2	1	4	2	1	2	1	1	2	1	1	3	1
Vanadium (V)	**130**	mg/kg	54	67	81	74	92	32	76	86	18	98	59	31	74	60	33	83	49
Zinc (Zn)	**410**	mg/kg	161	**722**	79	89	85	33	83	74	14	113	63	28	73	82	31	89	62
Zirconium (Zr)	**NG**	mg/kg	22	3	17	14	10	10	20	12	8	24	8	12	19	8	10	16	1

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

SQG - soil quality guideline.

m bgs - metres below ground surface.

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BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

			2022 Sampling Event															
Sample ID:	**SQG [a]**	**Units**	BH22-13 SS02	BH22-13 SS04	BH22-14 SS01	BH22-14 SS14 (Dup of BH22-14-SS01)	BH22-14 SS03	BH22-14 SS05	BH22-15 SS01	BH22-15 SS02	BH22-15 SS03	BH22-15 SS06 (Dup of BH22-15-SS03)	BH22-15 SS04	BH22-16 SS01	BH22-16 SS03	BH22-16 SS05	BH22-17 SS01	BH22-17 SS02
Date Sampled (mm/dd/yyyy):			1-Nov-2022	1-Nov-2022	3-Nov-2022	3-Nov-2022	3-Nov-2022	3-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022
Depth (m bgs)			1.4-1.5	2.9-3.0	0.9-1.0	0.9-1.0	2.3-2.4	3.7-3.8	0.2-0.3	2.4-2.5	3.0-3.1	3.0-3.1	3.9-4.0	1.2-1.3	2.9-3.0	4.5-4.6	0.2-0.3	1.2-1.3
Aluminum (Al)	**NG**	mg/kg	40,100	19,400	22,400	19,100	10,900	30,400	26,400	32,100	8,160	6,610	34,200	22,500	27,000	17,600	26,000	20,100
Antimony (Sb)	**40**	mg/kg	0	0	1	0	0	0	1	1	0	<0.10	0	1	9	0	0	1
Arsenic (As)	**12**	mg/kg	8	8	7	6	4	7	9	9	3	2	9	12	**13**	5	11	9
Barium (Ba)	**2,000**	mg/kg	204	313	212	191	91	231	231	234	61	53	327	148	572	159	213	165
Beryllium (Be)	**8**	mg/kg	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1
Bismuth (Bi)	**NG**	mg/kg	0	0	1	0	<0.20	0	0	1	<0.20	<0.20	0	0	5	0	0	0
Boron (B)	**120** [b]	mg/kg	27	16	19	20	16	22	20	24	12	14	24	16	23	15	17	13
Cadmium (Cd)	**22**	mg/kg	0	0	0	0	0	0	1	2	0	0	0	0	12	0	0	0
Calcium (Ca)	**NG**	mg/kg	20,900	59,600	57,900	77,800	126,000	28,500	61,600	46,900	94,100	147,000	14,500	33,500	61,300	57,200	37,000	36,500
Chromium (Cr)	**87**	mg/kg	59	36	53	41	21	62	62	**132**	17	15	72	42	**781**	37	48	33
Chromium, hexavalent (Cr VI)	**1.4**	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (Co)	**300**	mg/kg	15	13	11	10	5	17	14	12	4	3	21	14	10	10	15	12
Copper (Cu)	**91**	mg/kg	31	28	35	27	12	39	44	60	11	7	46	37	**279**	24	41	31
Iron (Fe)	**NG**	mg/kg	35,300	22,300	24,200	21,500	12,900	32,800	28,900	31,500	10,300	8,750	40,100	30,200	23,700	22,400	33,600	27,300
Lead (Pb)	**600**	mg/kg	16	12	33	32	5	13	27	63	5	4	17	18	415	11	17	13
Lithium (Li)	**NG**	mg/kg	39	26	28	22	14	44	30	35	12	10	51	30	19	21	33	27
Magnesium (Mg)	**NG**	mg/kg	18,000	28,900	35,100	46,700	59,800	19,600	33,100	22,200	55,900	81,400	17,400	16,800	26,400	32,000	18,000	18,300
Manganese (Mn)	**NG**	mg/kg	646	687	483	479	334	523	570	481	286	250	689	487	431	454	609	546
Molybdenum (Mo)	**40**	mg/kg	0	2	1	1	0	1	1	1	0	0	1	1	2	1	2	1
Nickel (Ni)	**89**	mg/kg	43	37	34	29	15	50	41	43	14	10	61	39	76	31	48	35
Phosphorus (P)	**NG**	mg/kg	475	491	635	655	403	621	3,030	1,570	434	415	740	618	7,980	509	648	557
Potassium (K)	**NG**	mg/kg	6,180	3,060	3,460	3,800	1,660	6,440	4,920	4,370	1,520	1,250	7,310	3,740	3,260	3,400	4,980	3,120
Selenium (Se)	**2.9**	mg/kg	<0.20	<0.20	0	0	<0.20	<0.20	0	0	<0.20	<0.20	0	0	1	<0.20	1	1
Silver (Ag)	**40**	mg/kg	0	0	1	0	<0.10	0	1	3	<0.10	<0.10	0	0	26	0	0	0
Sodium (Na)	**NG**	mg/kg	715	523	875	829	358	636	461	714	459	400	1,080	391	810	412	373	395
Strontium (Sr)	**NG**	mg/kg	77	105	77	70	74	79	81	81	44	55	91	87	128	61	95	82
Sulfur (S)	**NG**	mg/kg	<1000	<1000	1,200	<1000	<1000	<1000	<1000	1,300	<1000	<1000	<1000	<1000	2,600	<1000	<1000	<1000
Thallium (Tl)	**1**	mg/kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	3	<2.0	<2.0	3	2	9	<2.0	<2.0	<2.0	<2.0	67	<2.0	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	272	201	311	376	357	535	224	277	354	414	839	86	248	258	126	106
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	2	2	2	1	1	2	2	2	1	1	2	2	3	1	2	2
Vanadium (V)	**130**	mg/kg	102	61	65	61	34	89	78	86	26	22	97	64	66	59	79	53
Zinc (Zn)	**410**	mg/kg	93	66	89	74	26	93	120	264	24	16	109	92	**969**	59	99	81
Zirconium (Zr)	**NG**	mg/kg	12	13	12	13	8	19	10	7	9	9	28	14	<2.0	12	15	14

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< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

			2022 Sampling Event																
Sample ID:	**SQG** [a]	**Units**	BH22-17 SS03	BH22-17 SS05	BH22-18 SS01	BH22-18 SS02	BH22-18 SS06 (Dup of BH22-18-SS02)	BH22-18 SS03	BH22-19 SS01	BH22-19 SS04	BH22-19 SS06	BH22-20 SS01	BH22-20 SS04	BH22-20 SS05	BH22-21 SS02	BH22-21 SS04 (Dup of BH22-21-SS02)	BH22-21 SS03	BH22-22 SS01	BH22-22 SS02
Date Sampled (mm/dd/yyyy):			4-Nov-2022	4-Nov-2022	6-Nov-2022	6-Nov-2022	6-Nov-2022	6-Nov-2022	3-Nov-2022	3-Nov-2022	3-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022
Depth (m bgs)			2.1-2.2	3.6-3.7	1.1-1.2	2.4-2.5	2.4-2.5	3.0-3.1	0.8-0.9	2.9-3.0	4.5-4.6	0.8-0.9	2.7-2.8	3.6-3.7	2.0-2.1	2.0-2.1	2.9-3.0	0.2-0.3	1.1-1.2
Aluminum (Al)	**NG**	mg/kg	30,500	9,360	21,500	34,400	36,200	6,610	30,000	7,560	34,000	30,900	12,300	28,600	36,200	38,500	4,730	27,200	18,300
Antimony (Sb)	**40**	mg/kg	0	0	1	0	1	0	0	0	0	0	0	0	0	0	<0.10	1	0
Arsenic (As)	**12**	mg/kg	10	4	8	9	10	3	8	3	9	8	5	10	7	7	2	10	7
Barium (Ba)	**2,000**	mg/kg	220	70	199	195	266	56	210	60	290	228	89	233	207	306	34	244	147
Beryllium (Be)	**8**	mg/kg	1	0	1	1	1	0	1	0	1	1	0	1	1	1	0	1	1
Bismuth (Bi)	**NG**	mg/kg	0	<0.20	0	0	1	<0.20	0	<0.20	0	0	<0.20	0	0	0	<0.20	0	0
Boron (B)	**120** [b]	mg/kg	19	16	17	18	21	15	28	13	25	24	16	19	22	28	13	20	15
Cadmium (Cd)	**22**	mg/kg	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	1	0
Calcium (Ca)	**NG**	mg/kg	19,500	154,000	49,700	11,400	17,300	123,000	64,500	125,000	21,000	48,700	110,000	22,400	11,300	43,100	126,000	63,700	62,500
Chromium (Cr)	**87**	mg/kg	56	19	62	80	**144**	16	49	16	70	50	25	52	52	57	13	68	40
Chromium, hexavalent (Cr VI)	**1.4**	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (Co)	**300**	mg/kg	16	5	12	15	17	4	12	4	23	13	6	20	16	16	3	14	9
Copper (Cu)	**91**	mg/kg	35	11	54	39	58	9	27	9	42	28	15	36	30	31	7	41	31
Iron (Fe)	**NG**	mg/kg	35,000	11,400	25,400	35,200	34,700	9,250	28,400	9,290	38,800	27,500	15,000	33,100	32,500	35,400	7,080	30,200	21,300
Lead (Pb)	**600**	mg/kg	15	5	37	24	49	4	13	4	17	12	6	15	13	13	3	31	15
Lithium (Li)	**NG**	mg/kg	35	13	27	29	33	12	39	12	46	30	17	33	32	33	8	32	22
Magnesium (Mg)	**NG**	mg/kg	16,300	83,400	29,700	15,900	17,700	71,800	27,800	67,400	21,000	25,400	66,900	18,000	16,300	21,700	70,500	34,200	29,100
Manganese (Mn)	**NG**	mg/kg	492	314	460	443	621	228	494	231	759	555	309	896	864	944	196	552	412
Molybdenum (Mo)	**40**	mg/kg	1	0	1	0	1	0	1	0	1	0	0	2	0	0	0	1	1
Nickel (Ni)	**89**	mg/kg	48	14	39	46	49	11	35	11	59	37	19	63	44	46	8	41	28
Phosphorus (P)	**NG**	mg/kg	589	448	888	692	1,070	335	493	345	653	538	429	570	404	421	347	814	513
Potassium (K)	**NG**	mg/kg	5,730	1,850	4,000	5,380	5,470	1,150	4,790	1,460	7,470	4,930	2,040	5,320	5,680	5,890	960	4,800	3,330
Selenium (Se)	**2.9**	mg/kg	1	<0.20	0	<0.20	0	<0.20	<0.20	<0.20	0	0	<0.20	<0.20	<0.20	<0.20	<0.20	0	0
Silver (Ag)	**40**	mg/kg	0	<0.10	1	1	2	<0.10	0	<0.10	0	0	<0.10	0	0	0	<0.10	1	0
Sodium (Na)	**NG**	mg/kg	649	387	280	779	817	404	517	474	1,140	388	337	462	740	829	324	334	708
Strontium (Sr)	**NG**	mg/kg	81	62	68	54	66	58	151	60	88	96	62	75	72	160	50	99	70
Sulfur (S)	**NG**	mg/kg	1,100	<1000	<1000	<1000	1,000	<1000	<1000	<1000	1,100	<1000	<1000	<1000	<1000	<1000	<1000	<1000	1,200
Thallium (Tl)	**1**	mg/kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	3	3	7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3	<2.0
Titanium (Ti)	**NG**	mg/kg	194	461	180	152	163	345	296	341	563	260	346	176	155	250	301	226	175
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	2	1	2	1	2	1	2	1	2	1	1	1	1	2	1	2	1
Vanadium (V)	**130**	mg/kg	89	31	63	97	101	22	90	24	101	91	36	83	99	113	18	78	54
Zinc (Zn)	**410**	mg/kg	98	21	123	139	218	18	77	19	105	83	32	88	102	105	13	119	71
Zirconium (Zr)	**NG**	mg/kg	16	10	12	10	8	9	11	8	24	9	10	14	10	11	7	14	11

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

SQG - soil quality guideline.

m bgs - metres below ground surface.

mg/kg - milligram per kilogram.

NG - No Guideline.

"-" - Not Analyzed.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

			2022 Sampling Event																
Sample ID:	**SQG** [a]	**Units**	BH22-22 SS04	BH22-22 SS08 (Dup of BH22-22-SS04)	BH22-22 SS06	BH22-23 SS01	BH22-23 SS03	BH22-23 SS05	BH22-24 SS01	BH22-24 SS02	BH22-24 SS03	BH22-25 SS01	BH22-25 SS02	BH22-25 SS03	BH22-25 SS05 (Dup of BH22-25-SS03)	MW22-01 SS02	MW22-01 SS04	MW22-01 SS06	MW22-02 SS01
Date Sampled (mm/dd/yyyy):			5-Nov-2022	5-Nov-2022	5-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	1-Nov-2022	1-Nov-2022	1-Nov-2022	31-Oct-2022
Depth (m bgs)			2.9-3.0	2.9-3.0	4.3-4.4	1.1-1.2	2.9-3.0	4.5-4.6	0.2-0.3	1.7-1.8	2.7-2.8	0.2-0.3	1.8-1.9	2.6-2.7	2.6-2.7	1.4-1.5	2.9-3.0	4.5-4.6	0.8-0.9
Aluminum (Al)	**NG**	mg/kg	6,600	8,380	31,000	25,900	8,990	29,100	22,000	24,400	5,940	20,900	29,400	36,500	22,000	34,500	38,100	10,200	22,100
Antimony (Sb)	**40**	mg/kg	<0.10	0	0	0	0	0	0	0	<0.10	0	0	1	8	0	0	0	1
Arsenic (As)	**12**	mg/kg	2	3	11	9	4	8	7	7	2	5	9	10	**15**	8	11	4	7
Barium (Ba)	**2,000**	mg/kg	51	61	254	163	72	249	187	175	45	177	342	322	714	183	189	66	179
Beryllium (Be)	**8**	mg/kg	0	0	1	1	0	1	1	1	0	1	1	1	1	1	1	0	1
Bismuth (Bi)	**NG**	mg/kg	<0.20	<0.20	0	0	<0.20	0	0	0	<0.20	0	0	1	7	0	0	<0.20	0
Boron (B)	**120** [b]	mg/kg	13	13	22	17	13	21	20	21	12	20	22	27	22	17	27	15	19
Cadmium (Cd)	**22**	mg/kg	0	0	0	0	0	0	0	0	0	0	0	1	22	0	0	0	0
Calcium (Ca)	**NG**	mg/kg	126,000	109,000	16,200	40,900	104,000	39,500	68,600	81,900	101,000	99,900	63,000	61,500	57,400	10,500	42,500	85,200	57,500
Chromium (Cr)	**87**	mg/kg	14	18	58	45	19	56	48	51	14	41	51	**119**	**1,550**	56	62	22	40
Chromium, hexavalent (Cr VI)	**1.4**	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (Co)	**300**	mg/kg	4	5	21	14	5	15	11	13	3	9	14	14	8	12	17	6	11
Copper (Cu)	**91**	mg/kg	8	11	38	31	12	35	28	29	7	29	32	60	**511**	32	37	15	31
Iron (Fe)	**NG**	mg/kg	8,600	11,000	36,400	28,700	11,700	32,800	25,100	28,300	7,940	22,400	31,000	36,800	18,200	33,300	38,600	12,800	24,300
Lead (Pb)	**600**	mg/kg	4	5	15	13	5	15	15	11	3	16	16	69	**675**	16	15	6	21
Lithium (Li)	**NG**	mg/kg	10	12	34	29	11	37	26	36	9	25	34	42	14	27	45	16	29
Magnesium (Mg)	**NG**	mg/kg	68,600	60,100	14,100	23,400	57,800	25,100	42,300	53,300	59,200	56,100	35,800	31,400	26,900	14,800	26,700	56,100	32,600
Manganese (Mn)	**NG**	mg/kg	237	338	958	501	362	619	477	529	206	376	681	454	365	386	610	338	502
Molybdenum (Mo)	**40**	mg/kg	0	0	2	1	0	1	1	0	0	0	1	1	4	0	1	1	1
Nickel (Ni)	**89**	mg/kg	10	15	48	40	15	48	32	38	9	31	42	49	**93**	41	50	18	32
Phosphorus (P)	**NG**	mg/kg	369	386	585	563	419	544	578	541	416	560	570	1,400	13,000	391	554	461	561
Potassium (K)	**NG**	mg/kg	1,350	1,670	6,010	4,670	1,700	5,760	3,950	4,670	1,130	3,520	4,850	5,520	1,830	5,940	5,600	1,950	3,930
Selenium (Se)	**2.9**	mg/kg	<0.20	<0.20	1	0	<0.20	0	0	<0.20	<0.20	<0.20	0	0	2	<0.20	<0.20	<0.20	<0.20
Silver (Ag)	**40**	mg/kg	<0.10	<0.10	0	0	<0.10	0	0	0	<0.10	0	0	2	**46**	0	0	<0.10	0
Sodium (Na)	**NG**	mg/kg	330	361	523	1,500	308	434	1,140	802	296	738	960	997	1,350	543	619	392	445
Strontium (Sr)	**NG**	mg/kg	53	51	75	85	51	82	76	74	40	80	85	117	186	47	96	49	77
Sulfur (S)	**NG**	mg/kg	<1000	<1000	<1000	3,400	<1000	<1000	1,700	<1000	<1000	1,000	1,800	1,400	9,100	<1000	<1000	<1000	<1000
Thallium (Tl)	**1**	mg/kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	7	116	<2.0	<2.0	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	355	343	214	128	385	289	309	613	374	289	263	253	198	123	322	412	227
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	10	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	1	1	2	2	1	2	1	1	1	2	2	2	6	1	2	1	1
Vanadium (V)	**130**	mg/kg	22	27	102	75	31	82	67	68	19	60	87	102	45	95	104	33	63
Zinc (Zn)	**410**	mg/kg	17	25	97	85	24	89	76	71	15	65	87	187	**1,710**	98	97	32	75
Zirconium (Zr)	**NG**	mg/kg	9	9	15	14	10	18	12	20	9	14	15	11	<2.0	13	18	12	11

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

SQG - soil quality guideline.

m bgs - metres below ground surface.

mg/kg - milligram per kilogram.

NG - No Guideline.

"-" - Not Analyzed.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

			2022 Sampling Event														
Sample ID:	**SQG [a]**	**Units**	MW22-02 SS03	MW22-02 SS05	MW22-03 SS02	MW22-03 SS06 (Dup of MW22-03-SS02)	MW22-03 SS03	MW22-03 SS05	MW22-04 SS01	MW22-04 SS03	MW22-04 SS04	MW22-05 SS01	MW22-05 SS02	MW22-05 SS04	ST-A1	ST-A2	C-LD
Date Sampled (mm/dd/yyyy):			31-Oct-2022	31-Oct-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	5-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	4-Nov-2022	3-Nov-2022	3-Nov-2022	3-Nov-2022
Depth (m bgs)			2.3-2.4	3.9-4.0	1.8-1.9	1.8-1.9	2.6-2.7	4.2-4.3	1.1-1.2	2.9-3.0	3.7-3.8	1.1-1.2	2.0-2.1	3.7-3.8	0.3	0.3	0.3
Aluminum (Al)	**NG**	mg/kg	9,180	27,000	24,900	24,200	24,500	41,600	20,000	16,300	7,700	20,700	24,600	13,800	27,700	33,700	32,300
Antimony (Sb)	**40**	mg/kg	0	0	8	5	5	0	2	10	0	1	1	0	0	0	0
Arsenic (As)	**12**	mg/kg	4	9	**19**	**14**	**14**	9	8	10	3	7	10	5	6	9	8
Barium (Ba)	**2,000**	mg/kg	67	261	732	577	469	222	185	504	63	182	222	92	157	184	190
Beryllium (Be)	**8**	mg/kg	0	1	1	1	1	1	1	1	0	1	1	0	1	1	1
Bismuth (Bi)	**NG**	mg/kg	<0.20	0	9	5	4	0	1	3	<0.20	0	1	<0.20	0	0	0
Boron (B)	**120** [b]	mg/kg	13	20	25	26	23	19	16	20	14	19	19	17	15	21	28
Cadmium (Cd)	**22**	mg/kg	0	0	**22**	14	12	0	1	9	0	0	1	0	0	0	0
Calcium (Ca)	**NG**	mg/kg	89,100	20,200	52,700	57,600	59,700	34,900	46,000	85,800	134,000	70,400	64,800	105,000	13,000	14,000	25,300
Chromium (Cr)	**87**	mg/kg	19	54	**1,910**	**1,120**	**959**	**91**	66	**485**	17	49	**91**	28	42	50	48
Chromium, hexavalent (Cr VI)	**1.4**	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt (Co)	**300**	mg/kg	5	20	8	11	9	25	12	7	5	11	13	7	12	14	13
Copper (Cu)	**91**	mg/kg	12	34	**551**	**339**	**293**	57	50	**356**	10	30	46	19	30	32	30
Iron (Fe)	**NG**	mg/kg	11,500	31,300	15,300	21,500	21,100	50,800	25,600	17,400	10,200	24,300	27,100	16,500	27,100	30,700	29,700
Lead (Pb)	**600**	mg/kg	5	14	**677**	426	371	18	39	503	5	25	41	7	22	19	21
Lithium (Li)	**NG**	mg/kg	13	36	17	24	23	82	25	17	12	26	30	19	22	28	32
Magnesium (Mg)	**NG**	mg/kg	57,800	17,200	22,000	26,500	27,100	23,700	27,000	37,900	72,500	34,000	34,300	65,800	11,700	14,500	21,100
Manganese (Mn)	**NG**	mg/kg	305	1,000	273	384	357	824	485	304	271	485	475	455	392	683	716
Molybdenum (Mo)	**40**	mg/kg	1	2	5	3	3	1	1	2	0	1	1	0	0	0	0
Nickel (Ni)	**89**	mg/kg	15	50	**107**	79	73	74	39	67	13	31	42	23	34	40	38
Phosphorus (P)	**NG**	mg/kg	414	579	15,600	9,180	8,060	919	1,110	7,720	358	590	1,020	542	602	726	695
Potassium (K)	**NG**	mg/kg	1,450	5,420	1,820	2,760	2,770	10,500	4,100	1,880	1,360	3,610	4,490	2,870	5,920	6,640	6,240
Selenium (Se)	**2.9**	mg/kg	<0.20	2	2	1	1	<0.20	0	1	<0.20	0	0	<0.20	0	0	0
Silver (Ag)	**40**	mg/kg	<0.10	0	**56**	32	27	0	1	20	<0.10	0	2	<0.10	0	0	0
Sodium (Na)	**NG**	mg/kg	574	1,790	2,230	1,650	1,510	2,730	765	834	356	894	722	468	242	185	229
Strontium (Sr)	**NG**	mg/kg	59	82	233	177	154	105	78	136	62	83	80	56	48	45	79
Sulfur (S)	**NG**	mg/kg	<1000	6,600	12,400	7,500	6,600	20,000	1,000	5,300	<1000	1,500	1,400	<1000	<1000	<1000	<1000
Thallium (Tl)	**1**	mg/kg	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Tin (Sn)	**300**	mg/kg	<2.0	<2.0	125	71	62	<2.0	3	58	<2.0	3	5	<2.0	<2.0	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	319	256	191	231	180	1,810	126	163	361	232	195	491	103	180	188
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	11	5	4	<0.50	<0.50	2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**300**	mg/kg	1	3	13	9	9	4	2	3	1	2	2	1	2	1	1
Vanadium (V)	**130**	mg/kg	30	83	47	64	58	105	59	36	25	64	73	44	69	88	84
Zinc (Zn)	**410**	mg/kg	27	91	**1,710**	**1,110**	**964**	142	176	**970**	21	85	149	42	96	97	93
Zirconium (Zr)	**NG**	mg/kg	10	19	<2.0	<4.0	<2.0	38	11	1	9	12	11	13	12	9	9

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Industrial Land Use.*

[b] *Ontario Ministry of Environment (MOE), Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, July 1, 2011.*

SQG - soil quality guideline.

m bgs - metres below ground surface.

mg/kg - milligram per kilogram.

NG - No Guideline.

"-" - Not Analyzed.

< - Denotes concentration less than indicated detection limit.

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Yellow *Exceeds Applied Soil Quality Guideline*

Table 4. Quality Assurance/Quality Control - Soil Petroleum Hydrocarbons

Sample ID					BH-23-13-08	DUP-01 (Dup of BH-23-13-08)	RPD (%)	Difference	BH-23-12-06	DUP-02 (Dup of BH-23-12-06)	RPD (%)	Difference	BH-23-08-10	DUP-3 (Dup of BH-23-08-10)	RPD (%)	Difference	BH-23-07-06	DUP-4 (Dup of BH-23-07-06)	RPD (%)	Difference
Sample Date (mm/dd/yyyy)					30-May-2023	30-May-2023			31-May-2023	31-May-2023			01-Jun-2023	01-Jun-2023			01-Jun-2023	01-Jun-2023		
Sample Depth					3.9-4.1	3.9-4.1			2.9-3.1	2.9-3.1			4.9-5.1	4.9-5.1			2.9-3.1	2.9-3.1		
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)																
Petroleum Hydrocarbons																				
Benzene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC
Toluene	mg/kg	0.050	100	0.10	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Ethylbenzene	mg/kg	0.015	100	0.030	<0.015	<0.015	NC	NC	<0.015	<0.015	NC	NC	<0.015	<0.015	NC	NC	<0.015	<0.015	NC	NC
Xylenes	mg/kg	0.071	100	0.142	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
F1	mg/kg	10	60	20	<5.0	<5.0	NC	NC	<5.0	<5.0	NC	NC	<5.0	<5.0	NC	NC	<5.0	<5.0	NC	NC
F2	mg/kg	25	80	50	<25	<25	NC	NC	<25	<25	NC	NC	<25	<25	NC	NC	<25	<25	NC	NC
F3	mg/kg	50	80	100	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC
F4	mg/kg	50	80	100	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.

NC - Not Calculated (Result is below 5x the detection limit).

NA - Not Applicable (Result is more than 5x the detection limit).

RPD - Relative Percent Difference.

mg/kg - milligram per kilogram.

% - Percent.

< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Table 5. Quality Assurance/Quality Control for Soil Polycyclic Aromatic Hydrocarbons

				Sample ID	BH-23-13-08	DUP-01 (Dup of BH-23-13-06)	RPD (%)	Difference	BH-23-12-06	DUP-02 (Dup of BH-23-12-06)	RPD (%)	Difference	BH-23-08-10	DUP-3 (Dup of BH-23-08-10	RPD (%)	Difference	BH-23-07-06	DUP-4 (Dup of BH-23-07-06)	RPD (%)	Difference
				Sample Date	30-May-2023	30-May-2023			31-May-2023	31-May-2023			01-Jun-2023	01-Jun-2023			01-Jun-2023	01-Jun-2023		
				Sample Depth	3.9-4.1	3.9-4.1			2.9-3.1	2.9-3.1			4.9-5.1	4.9-5.1			2.9-3.1	2.9-3.1		
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)																
Benzo(a)pyrene total potency equivalents	mg/kg	0.0071	100	0.0142	<0.065	<0.065	NC	NC	<0.065	<0.065	NC	NC	<0.065	<0.065	NC	NC	<0.065	<0.065	NC	NC
Acenaphthene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Acenaphthylene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Acridine	mg/kg	0.010	100	0.020	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Anthracene	mg/kg	0.0040	100	0.0080	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Fluorene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Naphthalene	mg/kg	0.0050	100	0.010	<0.010	<0.010	NC	NC	<0.010	<0.010	NC	NC	<0.010	<0.010	NC	NC	<0.010	<0.010	NC	NC
Phenanthrene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Benz(a)anthracene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Benzo(a)pyrene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Benzo(b+j)fluoranthene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Benzo(g,h,i)perylene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Benzo(k)fluoranthene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Chrysene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dibenz(a,h)anthracene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Fluoranthene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Methylnaphthalene, 1-	mg/kg	0.0050	100	0.010	<0.030	<0.030	NC	NC	<0.030	<0.030	NC	NC	<0.030	<0.030	NC	NC	<0.030	<0.030	NC	NC
Methylnaphthalene, 2-	mg/kg	0.0050	100	0.010	<0.030	<0.030	NC	NC	<0.030	<0.030	NC	NC	<0.030	<0.030	NC	NC	<0.030	<0.030	NC	NC
Pyrene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Quinoline	mg/kg	0.010	100	0.020	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.
NC - Not Calculated (Result is below 5x the detection limit).
NA - Not Applicable (Result is more than 5x the detection limit).
RPD - Relative Percent Difference.
mg/kg - milligram per kilogram.
% - Percent.
< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Table 6. Quality Assurance/Quality Control - Soil Metals

Sample Location					BH-23-13-08	DUP-01 (Dup of BH-23-13-08)	RPD (%)	Difference	BH-23-12-06	DUP-02 (Dup of BH-23-12-06)	RPD (%)	Difference	BH-23-08-10	DUP-3 (Dup of BH-23-08-10)	RPD (%)	Difference	BH-23-07-06	DUP-4 (Dup of BH-23-07-06)	RPD (%)	Difference
Sample Date					30-May-2023	30-May-2023			31-May-2023	31-May-2023			01-Jun-2023	01-Jun-2023			01-Jun-2023	01-Jun-2023		
Sample ID					3.9-4.1	3.9-4.1			2.9-3.1	2.9-3.1			4.9-5.1	4.9-5.1			2.9-3.1	2.9-3.1		
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)																
Aluminum					9690	8,890	8.61	NA	10,400	7,680	30.09	NA	25,300	28,000	10.13	NA	9,980	7,850	23.89	NA
Antimony (Sb)	mg/kg	0.10	100	0.20	0.23	0.20	13.95	NA	0.16	0.12	28.57	NA	0.45	0.48	6.45	NA	0.17	0.15	12.50	NC
Arsenic (As)	mg/kg	0.10	100	0.20	5.10	4.06	22.71	NA	3.75	2.43	42.72	NA	7.47	7.22	3.40	NA	3.26	3.13	4.07	NA
Barium (Ba)	mg/kg	0.50	100	1.00	65.4	60.9	7.13	NA	80.2	62.9	24.18	NA	254	232	9.05	NA	81.0	72.9	10.53	NA
Beryllium (Be)	mg/kg	0.10	100	0.20	0.45	0.38	16.87	NA	0.49	0.35	33.33	NA	1.24	1.35	8.49	NA	0.44	0.33	28.57	NA
Bismuth (Bi)	mg/kg	0.20	100	0.40	<0.20	<0.20	NC	NA	<0.20	<0.20	NC	NA	0.30	0.32	6.45	NA	<0.20	<0.20	NC	NC
Boron (B)	mg/kg	5.0	100	10.0	15.1	14.6	3.37	NA	16.5	15.9	3.70	NA	18.0	19.4	7.49	NA	16.3	16.4	0.61	NA
Cadmium (Cd)	mg/kg	0.020	100	0.040	0.215	0.208	3.31	NA	0.118	0.109	7.93	NA	0.276	0.329	17.52	NA	0.119	0.107	10.62	NA
Calcium (Ca)	mg/kg	50	100	100	98100	95,400	2.79	NA	129,000	131,000	1.54	NA	22,900	19,600	15.53	NA	119,000	133,000	11.11	NA
Chromium (Cr)	mg/kg	0.50	100	1.00	23.6	21.4	9.78	NA	25.2	18.4	31.19	NA	46.7	50.2	7.22	NA	23.7	20.3	15.45	NA
Cobalt (Co)	mg/kg	0.10	100	0.20	6.42	5.89	8.61	NA	6.44	4.89	27.36	NA	13.9	14.6	4.91	NA	6.55	4.52	36.68	NA
Copper (Cu)	mg/kg	0.50	100	1.0	15.2	13.8	9.66	NA	15.5	11.3	31.34	NA	36.5	38.4	5.07	NA	13.8	11.2	20.80	NA
Iron (Fe)	mg/kg	50	100	100	15400	13,700	11.68	NA	15,800	11,200	34.07	NA	31,700	33,700	6.12	NA	14,700	11,600	23.57	NA
Lead (Pb)	mg/kg	0.50	100	1.0	6.54	6.09	7.13	NA	6.44	4.86	27.96	NA	14.0	14.7	4.88	NA	6.12	4.95	21.14	NA
Lithium (Li)	mg/kg	2.0	100	4.0	15.8	14.2	10.67	NA	19.4	14.6	28.24	NA	31.9	34.9	8.98	NA	17.4	13.9	22.36	NA
Magnesium (Mg)	mg/kg	20	100	40	51400	52,600	2.31	NA	73,300	72,900	0.55	NA	15,200	15,300	0.66	NA	69,000	82,200.00	17.46	NA
Manganese (Mn)	mg/kg	1.0	100	2.0	502	459	8.95	NA	381	273	33.03	NA	469	517	9.74	NA	404	285	34.54	NA
Molybdenum (Mo)	mg/kg	0.10	100	0.20	0.77	0.69	10.96	NA	0.36	0.28	25.00	NA	1.14	1.16	1.74	NA	0.31	0.25	21.43	NA
Nickel (Ni)	mg/kg	0.50	100	1.0	19.3	17.2	11.51	NA	18.7	13.3	33.75	NA	42.8	44.9	4.79	NA	18.2	14.0	26.09	NA
Phosphorus (P)	mg/kg	50	100	100	464	416	10.91	NA	420	377	10.79	NA	586	560	4.54	NA	364	388	6.38	NA
Potassium (K)	mg/kg	100	100	200	1940	1790	8.04	NA	2,390	1,770	29.81	NA	4,490	5,530	20.76	NA	2,220	1,620	31.25	NA
Selenium (Se)	mg/kg	0.20	100	0.40	<0.20	<0.20	NC	NA	<0.20	<0.20	NC	NA	0.82	1.00	19.78	NA	<0.20	<0.20	NC	NC
Silver (Ag)	mg/kg	0.10	100	0.20	<0.10	<0.10	NC	NA	<0.10	<0.10	NC	NA	0.14	0.16	13.33	NA	<0.10	<0.10	NC	NC
Sodium (Na)	mg/kg	50	100	100	368	359	2.48	NA	370	329	11.73	NA	1,020	1,000	1.98	NA	448	382	15.90	NA
Strontium (Sr)	mg/kg	0.50	100	1.0	60.2	62.9	4.39	NA	62.0	54.1	13.61	NA	87.2	85.8	1.62	NA	60.8	61.4	0.98	NA
Sulfur (S)	mg/kg	1,000	100	2,000	<1000	<1000	NC	NA	<1000	<1000	NC	NA	<1000	<1000	NC	NA	<1000	<1000	NC	NC
Thallium (Tl)	mg/kg	0.050	100	0.10	0.190	0.168	12.29	NA	0.163	0.127	24.83	NA	0.294	0.309	4.98	NA	0.152	0.129	16.37	NA
Tin (Sn)	mg/kg	2.0	100	4.0	<2.0	<2.0	NC	NA	<2.0	<2.0	NC	NA	<2.0	<2.0	NC	NA	<2.0	<2.0	NC	NC
Titanium (Ti)	mg/kg	1.0	100	2.0	318	350	9.58	NA	473	426	10.46	NA	144	157	8.64	NA	486	434	11.30	NA
Tungsten (W)	mg/kg	0.50	100	1.0	<0.50	<0.50	NC	NA	<0.50	<0.50	NC	NA	<0.50	<0.50	NC	NA	<0.50	<0.50	NC	NC
Uranium (U)	mg/kg	0.050	100	0.10	0.997	0.886	11.79	NA	0.910	0.773	16.28	NA	2.65	2.80	5.50	NA	0.897	0.880	1.91	NA
Vanadium (V)	mg/kg	0.20	100	0.40	36.5	32.5	11.59	NA	33.3	25.9	25.00	NA	74.8	79.3	5.84	NA	32.6	27.3	17.70	NA
Zinc (Zn)	mg/kg	2.0	100	4.0	35.0	31.2	11.48	NA	34.2	24.9	31.47	NA	94.3	95.2	0.95	NA	30.9	24.1	24.73	NA
Zirconium (Zr)	mg/kg	1.0	100	2.0	11.8	11.9	0.84	NA	15.0	12.5	18.18	NA	15.0	15.5	3.28	NA	13.7	11.2	20.08	NA

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.
NC - Not Calculated (Result is below 5x the detection limit).
NA - Not Applicable (Result is more than 5x the detection limit).
RPD - Relative Percent Difference.
mg/kg - milligram per kilogram.
mg/L - milligram per litre.
% - Percent.
< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Appendix A Site Photographs

PHOTOGRAPHIC RECORD

AECOM Imagine it. Delivered.

Site Name:
NEWPCC

Site Location:
WINNIPEG, MB

Project No.
60660698



Photo No. 1
Date: 30-May-2023
Description: BH23-03 (0.0 – 1.5 m)



Photo No. 2
Date: 30- May-2023
Description: BH23-03 (1.5 – 3.0 m)



Photo No. 3
Date: 30-May-2023
Description: BH23-03 (3.0 – 4.5 m)



Photo No. 4
Date: 31-May-2023
Description: BH23-03 (4.5 – 6.0 m)

PHOTOGRAPHIC RECORD

Site Name:
NEWPCC

Site Location:
WINNIPEG, MB

Project No.
60660698

	
Photo No. 5 **Date: 30-May-2023** **Description: BH23-04 (0.0 – 1.5 m)**	**Photo No**. 6 **Date: 30-May-2023** **Description: BH23-04 (1.5 – 3.0 m)**
	
Photo No. 7 **Date: 30-May-2023** **Description: BH23-04 (3.0 – 4.5 m)**	**Photo No**. 8 **Date: 30-May-2023** **Description: BH23-04 (4.5 – 6.0 m)**

	
Photo No. 9 **Date: 30-May-2023** **Description: BH23-13 (0.0 – 1.5 m)**	**Photo No**. 10 **Date: 30-May-2023** **Description: BH23-13 (1.5 – 3.0 m)**
	
Photo No. 11 **Date: 30-May-2023** **Description: BH23-13 (3.0 – 4.5 m)**	**Photo No**. 12 **Date: 30-May-2023** **Description: BH23-13 (4.5 – 6.0 m)**

	
Photo No.13 **Date: 30-May-2023** **Description: BH23-01 (0.0 – 1.5 m)**	**Photo No**. 14 **Date: 30-May-2023** **Description: BH23-01 (1.5 – 3.0 m)**
	
Photo No. 15 **Date: 30-May-2023** **Description: BH23-01 (3.0 – 4.5 m)**	**Photo No**. 16 **Date: 30-May-2023** **Description: BH23-01 (4.5 – 6.0)**

	
Photo No. 17 **Date: 31-May-2023** **Description: BH23-02 (0.0 – 1.5 m)**	**Photo No**. 18 **Date: 31-May-2023** **Description: BH23-02 (1.5 – 3.0 m)**
	
Photo No. 19 **Date: 31-May-2023** **Description: BH23-02 (3.0 – 4.5 m)**	**Photo No**. 20 **Date: 31-May-2023** **Description: BH23-02 (4.5 – 6.0 m)**

	
Photo No. 21 **Date: 31-May-2023** **Description: BH23-12 (0.0 – 1.5 m)**	**Photo No**. 22 **Date: 31-May-2023** **Description: BH23-12 (1.5 – 3.0 m)**
	
Photo No. 23 **Date: 31-May-2023** **Description: BH23-12 (3.0 – 4.5 m)**	**Photo No**. 24 **Date: 31-May-2023** **Description: BH23-12 (4.5 – 6.0 m)**

PHOTOGRAPHIC RECORD

AECOM Imagine it. Delivered.

Site Name:
NEWPCC

Site Location:
WINNIPEG, MB

Project No.
60660698

	
Photo No. 25 **Date: 31-May-2023** **Description: BH23-10 (0.0 – 1.5 m)**	**Photo No**. 26 **Date: 31-May-2023** **Description: BH23-10 (1.5 – 3.0 m)**
	
Photo No. 27 **Date: 31-May-2023** **Description: BH23-10 (3.0 – 4.5 m)**	**Photo No**. 28 **Date: 31-May-2023** **Description: BH23-10 (4.5 – 6.0 m)**

	
Photo No. 29 **Date: 31-May-2023** **Description: BH23-11 (0.0 – 1.5 m)**	**Photo No**. 30 **Date: 31-May-2023** **Description: BH23-11 (1.5 – 3.0 m)**
	
Photo No. 31 **Date: 31-May-2023** **Description: BH23-11 (3.0 – 4.5 m)**	**Photo No**. 32 **Date: 31-May-2023** **Description: BH23-11 (4.5 – 6.0 m)**

PHOTOGRAPHIC RECORD

AECOM Imagine it. Delivered.

Site Name:
NEWPCC

Site Location:
WINNIPEG, MB

Project No.
60660698

	
Photo No. 33 **Date: 01-Jun-2023** **Description: Direct Push Geoprobe**	**Photo No**. 34 **Date: 01-Jun-2023** **Description: BH23-08 (0.0 – 1.5 m)**
	
Photo No. 35 **Date: 01-Jun-2023** **Description: BH23-08 (3.0 – 4.5 m)**	**Photo No**. 36 **Date: 01-Jun-2023** **Description: BH23-08 (4.5 – 6.0)**

PHOTOGRAPHIC RECORD

AECOM Imagine it. Delivered.

Site Name:
NEWPCC

Site Location:
WINNIPEG, MB

Project No.
60660698

	
Photo No. 37 **Date: 01-Jun-2023** **Description: BH23-05 (0.0 – 1.5 m)**	**Photo No**. 38 **Date: 01-Jun-2023** **Description: BH23-05 (1.5 – 3.0 m)**
	
Photo No. 39 **Date: 01-Jun-2023** **Description: BH23-05 (3.0 – 4.5 m)**	**Photo No**. 40 **Date: 01-Jun-2023** **Description: BH23-05 (4.5 – 6.0 m)**

PHOTOGRAPHIC RECORD

Site Name:
NEWPCC

Site Location:
WINNIPEG, MB

Project No.
60660698

	
Photo No. 41 **Date: 01-Jun-2023** **Description: BH23-06 (0.0 – 1.5 m)**	**Photo No**. 42 **Date: 01-Jun-2023** **Description: Bh23-06 (1.5 – 3.0 m)**
	
Photo No. 43 **Date: 01-Jun-2023** **Description: BH23-06 (3.0 – 4.5 m)**	**Photo No**. 44 **Date: 01-Jun-2023** **Description: BH23-06 (4.5 – 6.0 m)**

	
Photo No. 45 **Date: 01-Jun-2023** **Description: BH23-07 (0.0 – 1.5 m)**	**Photo No**. 46 **Date: 01-Jun-2023** **Description: BH23-07 (1.5 – 3.0 m)**

	
Photo No. 47 **Date: 01-Jun-2023** **Description: BH23-07 (3.0 – 4.5 m)**	**Photo No**. 48 **Date: 01-Jun-2023** **Description: BH23-07 (4.5 – 6.0 m)**

PHOTOGRAPHIC RECORD

Site Name:
NEWPCC

Site Location:
WINNIPEG, MB

Project No.
60660698

	
Photo No. 49 **Date: 01-Jun-2023** **Description: BH23-09 (0.0 – 1.5 m)**	**Photo No**. 50 **Date: 01-Jun-2023** **Description: BH23-09 (1.5 – 3.0 m)**
	
Photo No. 51 **Date: 01-Jun-2023** **Description: BH23-09 (3.0 – 4.5 m)**	**Photo No**. 52 **Date: 01-Jun-2023** **Description: BH23-09 (4.5 – 6.0 m)**

	
Photo No. 53 **Date:** 2023-05-26 **Description:** Surveyed Borehole location (Parcel B)	**Photo No**. 54 **Date:** 2023-05-26 **Description:** Line locates flag in Parcel B (viewed facing east)
	
Photo No. 55 **Date:** 2023-05-26 **Description:** Line locate flag in Parcel B (viewed facing west)	**Photo No**. 56 **Date:** 2023-05-26 **Description:** Borehole location in Parcel B (viewed facing south)

Appendix B Borehole Logs

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-01**
LOCATION: 0635352, 5535250		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		CLAY - some silt, trace gravel, dark brown, stiff, moist, medium plasticity		01 ⊗			0
		- grey between 0.6 - 0.7 m					
1				02 ⊗			1
		- no silt, trace gravel(fine) and firm below 1.5 m		03 ⊗		Sample BH23-01-03 submitted for analysis of BTEX, F1-F4, PAHs and metals	
2				04 ⊗			2
				05 ⊗			
3		CLAY - dark brown, firm, moist, high plasticity		06 ⊗		Sample BH23-01-06 submitted for analysis of BTEX, F1-F4, PAHs and metals	3
				07 ⊗			
4				08 ⊗			4
		- some brown silt between 4.2 - 4.3 m					
		- trace silt and laminated below 4.5 m		09 ⊗			
5				10 ⊗		Sample BH23-01-10 submitted for analysis of BTEX, F1-F4, PAHs and metals	5
				11 ⊗			
6				12 ⊗			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-5-30
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-02**
LOCATION: 0635386, 5535304		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		CLAY - dark brown, firm, moist, medium plasticity		01 ⊗			0
1				02 ⊗		Sample BH23-02-02 submitted for analysis of BTEX, F1-F4, PAHs and metals	1
		- some silt and trace gravel below 1.5 m		03 ⊗			
2				04 ⊗			2
				05 ⊗			
3		SILT - some clay, grey, firm, moist, non-plastic		06 ⊗		Sample BH23-02-06 submitted for analysis of BTEX, F1-F4, PAHs and metals	3
		CLAY - trace silt, laminated, dark brown, firm, moist, medium plasticity		07 ⊗			
4				08 ⊗			4
		CLAY and SILT - brown, firm, moist, medium plasticity		09 ⊗			
		- trace silt and dark brown below 4.5 m					
5				10 ⊗		Sample BH23-02-10 submitted for analysis of BTEX, F1-F4, PAHs and metals	5
				11 ⊗			
6				12 ⊗			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7		Notes: 1. Soil description is primarily based on visual observation. 2. mBGS = meters below ground surface. 3. Borehole backfilled with bentonite upon completion. 4. No groundwater seepage or sloughing.					7
8							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-5-31
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-03**
LOCATION: 0635323, 5535335		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		CLAY - some silt, trace gravel, dark brown, stiff, moist, medium plasticty		01			0
1		- no silt, organic and black between 1.0 - 1.8 m		02		Sample BH23-03-02 submitted for analysis of BTEX, F1-F4, PAHs and metals	1
				03			
2				04			2
		CLAY - some silt, light brown, soft, wet, high plasticity		05			
3		SILT and CLAY - trace sand, light brown, soft, wet, medium plasticity		06		Sample BH23-03-06 submitted for analysis of BTEX, F1-F4, PAHs and metals	3
				07			
4				08			4
				09			
5		CLAY and SILT - dark brown, firm, moist, medium plasticity		10			5
		SILT - some clay, trace sand, brown, firm, moist, low plasticity		11		Sample BH23-03-11 submitted for analysis of BTEX, F1-F4, PAHs and metals	
		CLAY - dark brown, stiff, moist, medium plasticity					
6				12			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-5-30
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-04**
LOCATION: 0635277, 5535283		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT and CLAY - some roots, dark brown, stiff, moist, medium plasticity					0
		CLAY and SILT - some sand, dark brown, firm, moist, medium plasticity		01			
1		- no sand below 1.0 m - black between 1.0 - 1.1 m		02			1
				03			
2		SILT - trace gravel, brown, firm, moist, non-plastic		04		Sample BH23-04-04 submitted for analysis of BTEX, F1-F4, PAHs and metals	2
		CLAY - some silt, dark brown, stiff, moist, medium plasticity					
		CLAY and SILT - black, stiff, moist, medium plasticity		05			
		- grey below 2.5 m					
3				06		Sample BH23-04-06 submitted for analysis of BTEX, F1-F4, PAHs and metals	3
		SILT and CLAY - light brown, soft, wet, high plasticity		07			
4				08			4
		SILT - trace sand, light brown, soft, wet, non-plastic					
		CLAY - some silt, brown, stiff, wet, medium plasticity		09			
5				10		Sample BH23-04-10 submitted for analysis of BTEX, F1-F4, PAHs and metals	5
				11			
6				12			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-5-30
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-05**
LOCATION: 0635128, 5535322		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		CLAY and SILT - trace gravel, dark brown, stiff, moist, low plasticity					0
		- no gravel, firm, medium plasticity below 0.5 m		01			
1				02			1
		CLAY - some silt, black, soft, moist, medium plasticity		03		Sample BH23-05-03 submitted for analysis of BTEX, F1-F4, PAHs and metals	
2				04			2
		SILT and CLAY - trace sand, light brown, soft, moist, medium plasticity		05			
3				06		Sample BH23-05-06 submitted for analysis of BTEX, F1-F4, PAHs and metals	3
		CLAY - trace silt, dark brown, firm, moist, medium plasticity		07			
4				08			4
		CLAY and SILT - brown, firm, moist, medium plasticity, oxidation					
		CLAY - trace silt, dark brown, firm, moist, medium plasticity		09			
5				10		Sample BH23-05-10 submitted for analysis of BTEX, F1-F4, PAHs and metals	5
				11			
6				12			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-6-1
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-06**
LOCATION: 0635106, 5535320		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		CLAY and SILT - black, firm, moist, medium plasticity		01			0
1				02		Sample BH23-06-02 submitted for analysis of BTEX, F1-F4, PAHs and metals	1
				03			
2		- brown below 2.1 m		04			2
				05		Sample BH23-06-5 submitted for analysis of BTEX, F1-F4, PAHs and metals	
3		SILT and CLAY - light brown, soft, moist, medium plasticity		06			3
				07			
4				08			4
		CLAY - dark brown, firm, moist, medium plasticity		09		Sample BH23-06-09 submitted for analysis of BTEX, F1-F4, PAHs and metals	
5				10			5
				11			
6				12			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-6-1
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-07**
LOCATION: 0635099, 5535347		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT - trace clay, light brown, soft, moist, non-plastic		01			
1		SILT and CLAY - some roots, dark brown, firm, moist, low plasticity		02			1
		CLAY - trace silt, dark brown, stiff, moist, medium plasticity		03		Sample BH23-07-03 submitted for analysis of BTEX, F1-F4, PAHs and metals	
2				04			2
		SILT and CLAY - light brown, soft, wet, medium plasticity		05			
3				06		Sample BH23-07-06 submitted for analysis of BTEX, F1-F4, PAHs and metals	3
		CLAY - some silt, brown, firm, moist, medium plasticity		07			
4				08			4
		- light brown silt between 4.3 - 4.4 m - dark brown, firm, high plasticity below 4.5 m		09			
5				10			5
				11		Sample BH23-07-11 submitted for analysis of BTEX, F1-F4, PAHs and metals	
6				12			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.
5. DUP-04 associated with sample BH23-07-06.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-6-1
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-08**
LOCATION: 0635162, 5535360		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		CLAY and SILT - dark brown, firm, moist, medium plasticity		01			0
1				02			1
		CLAY - some silt, dark brown, firm, moist, medium plasticity		03		Sample BH23-08-03 submitted for analysis of BTEX, F1-F4, PAHs and metals	
2		- brown between 2.1 - 2.3 m		04			2
				05			
3		- trace silt below 3.0 m		06		Sample BH23-08-06 submitted for analysis of BTEX, F1-F4, PAHs and metals	3
				07			
4				08			4
		SILT and CLAY - brown, firm, moist, medium plasticity					
		CLAY - trace silt, dark brown, firm, moist, medium plasticity		09			
5				10		Sample BH23-08-10 submitted for analysis of BTEX, F1-F4, PAHs and metals	5
				11			
6				12			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.
5. DUP-03 associated with sample BH23-08-10.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-6-1
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-09**
LOCATION: 0635127, 5535353		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT and CLAY - brown, firm, moist, low plasticity		01 ⊗			0
1				02 ⊗			1
		CLAY - some silt, black, firm, moist, medium plasticity		03 ⊗		Sample BH23-09-03 submitted for analysis of BTEX, F1-F4, PAHs and metals	
2		- no silt and dark brown below 1.7 m		04 ⊗			2
		SILT and CLAY - light brown, soft, wet, medium plasticity		05 ⊗			
3		CLAY - trace silt, dark brown, firm, moist, medium plasticity		06 ⊗		Sample BH23-09-06 submitted for analysis of BTEX, F1-F4, PAHs and metals	3
				07 ⊗			
4				08 ⊗			4
		SILT and CLAY - brown, firm, moist, medium plasticity		09 ⊗		Sample BH23-09-09 submitted for analysis of BTEX, F1-F4, PAHs and metals	
		CLAY - dark brown, firm, moist, medium plasticity					
5				10 ⊗			5
				11 ⊗			
6				12 ⊗			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-6-1
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-10**
LOCATION: 0635141, 5535380		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT and CLAY - brown, firm, moist, low plasticity					0
		CLAY - some silt, firm, brown, medium plasticity, moist		01			
1		- no silt and black below 1.0 m		02		Sample BH23-10-02 submitted for analysis of BTEX, F1-F4, PAHs and metals	1
		- dark brown below 1.5 m		03			
2				04		Sample BH23-10-04 submitted for analysis of BTEX, F1-F4, PAHs and metals	2
		SILT and CLAY - light brown, soft, wet, low plasticity		05			
3		SILT - some sand, trace clay, light brown, soft, wet, non-plastic		06			3
				07			
4		CLAY and SILT - brown, firm, moist, medium plasticity		08			4
		CLAY - dark brown, firm, moist, medium plasticity		09		Sample BH23-10-09 submitted for analysis of BTEX, F1-F4, PAHs and metals	
5				10			5
				11			
6				12			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-5-31
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-11**
LOCATION: 0635161, 553582		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		CLAY - some silt, dark brown, firm, moist, medium plasticity		01			0
1				02			1
		SILT and CLAY - trace sand, light brown, firm, moist, low plasticity		03		Sample BH23-11-03 submitted for analysis of BTEX, F1-F4, PAHs and metals	
2				04			2
				05			
3		CLAY - dark brown, firm, moist, medium plasticity		06		Sample BH23-11-06 submitted for analysis of BTEX, F1-F4, PAHs and metals	3
				07			
4		SILT and CLAY - light brown, soft, wet, low plasticity		08			4
		CLAY - dark brown, firm, moist, medium plasticity		09			
5				10			5
				11		Sample BH23-11-10 submitted for analysis of BTEX, F1-F4, PAHs and metals	
6				12			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-5-31
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-12**
LOCATION: 0635142, 5535367		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		CLAY - some silt, firm, brown, medium plasticity, moist		01			0
1				02		Sample BH23-12-02 submitted for analysis of BTEX, F1-F4, PAHs and metals	1
		- dark brown below 1.5 m		03			
2				04			2
		SILT and CLAY - light brown, soft, moist, medium plasticity		05			
3				06		Sample BH23-12-06 submitted for analysis of BTEX, F1-F4, PAHs and metals	3
				07			
4		CLAY and SILT - brown, firm, moist, medium plasticity		08			4
		CLAY - trace silt, dark brown, firm, moist, high plasticity		09			
5				10		Sample BH23-12-10 submitted for analysis of BTEX, F1-F4, PAHs and metals	5
				11			
6				12			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing
5. DUP-02 associated with sample BH23-12-06.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-5-31
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC Phase III ESA	CLIENT: City of Winnipeg	TESTHOLE NO: **BH23-13**
LOCATION: 0635312, 5535290		PROJECT NO.: 60660698
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m):

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		CLAY - trace silt, trace gravel, dark brown, firm, moist, medium plasticity		01			0
		- no gravel below 0.6 m					
1				02		Sample BH23-13-02 submitted for analysis of BTEX, F1-F4, PAHs and metals	1
		- black between 1.3 - 1.4 m		03			
2				04			2
		SILT - organic, black, firm, moist, non-plastic, slight hydrocarbon smell		05		Sample BH23-13-05 submitted for analysis of BTEX, F1-F4, PAHs and metals	
		CLAY - black, firm, moist, medium plasticity					
3				06			3
		SILT and CLAY - trace sand, light brown, soft, moist, medium plasticity		07			
4				08		Sample BH23-13-08 submitted for analysis of BTEX, F1-F4, PAHs and metals	4
		CLAY - dark brown, stiff, moist, medium plasticity		09			
5				10			5
				11			
6				12			6
		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. mBGS = meters below ground surface.
3. Borehole backfilled with bentonite upon completion.
4. No groundwater seepage or sloughing.
5. DUP-01 is associated with sample BH23-13-08.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.10 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 23-5-30
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC.GPJ UMA.GDT 23-6-23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-01**
LOCATION: 5535436, 635051.4		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.07

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, silt and clay, fine grained, brown, low plasticity, moist, dense					231
		Clay, some silt, fine grained, dark brown, mosit, stiff, medium plasticity		1		Sample BH22-01-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
1		Clay, some silt, trace sand, fine grained, light brown, wet, soft medium plasticity		2			230
2							229
		Clay, some silt, fine grained, dark brown, mosit, firm, medium plasticy, trace of gravel		3		Sample BH22-01-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3				4			228
				5			
4		Clay, some silt, some sand, brown, moist, stiff, medium plasticity					227
				6		Sample BH22-01-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY:	COMPLETION DATE: 10/31/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-02**
LOCATION: 5535391, 635031.8		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.37

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity		1		Sample BH22-02-SS-01 was submitted for analysis of metals	
		CLAY and SILT, fine grained, black, moist, firm, medium plasticity					231
1				2		Sample BH22-02-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
		CLAY and SILT, fine grained, dark brown, moist, stiff, medium plasticity					
2		SILT, some clay, fine grained, light brown, wet, soft, low plasticity		3			229
				4		Sample BH22-02-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN SILT					
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					228
4							
							227
5							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 3.00 m
REVIEWED BY:	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-03**
LOCATION: 5535397, 635074.2		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.69

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, silt, some clay, fine grained, black, moist, compact, low plasticity		1		Sample BH22-03-SS-01 was submitted for analysis of metals	
		SILT, and clay, fine grained, brown, moist, dense, low plasticity					231
1		CLAY, and silt, find grained, dark brown, moist, stiff, medium plasticity, some oraganic (wood and root), gravel inclusions		2		Sample BH22-03-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, fine grianed, moist, brown, stiff, medium plasticity		3			230
2							
		CLAY, some silt, trace sand, light brown, wet, soft, medium plasticity		4		Sample BH22-03-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
3				5			
		CLAY, some silt, fine grained, dark brown, moist, stiff, medium platicity		6		Sample BH22-03-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4		CLAY and silt, fine grained, light brown, moist, stiff, medium plasticty					
		CLAY, some silt, fine grained, dark brown, moist, stiff, medium plasticity		7			
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					227
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY:	COMPLETION DATE: 10/31/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-04**
LOCATION: 5535394, 635125.6		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.26

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, SILT, some clay, fine grained, light brown, moist, loose, low plasticity	☒	1 ⊗		Sample BH22-04-SS-01 was submitted for analysis of metals	231
1		CLAY, trace silt, fine grained, moist, black, stiff, medium plasticity, organic root matter					230
2		CLAY, some silt, fine grained, moist, dark brown, stiff, medium plasticity	☒	2 ⊗		Sample BH22-04-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		SILT and CLAY, some sand, fine grained, moist, light brown, soft, medium plasticty, stratified gray coloration	☒	3 ⊗			229
3		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN CLAY and SILT Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.	☒	4 ⊗		Sample BH22-04-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4							227
5							

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 3.00 m
REVIEWED BY:	COMPLETION DATE: 10/31/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-05**
LOCATION: 5535373, 635152.3		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.31

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, SILT and clay, trace gravel, fine grained, moist, dark brown, dense, low plasticity					
		SILT and CLAY, some sand, fine grained, light brown, moist, compact, medium plasticity		1			231
1		CLAY, some silt, fine grained, moist, black, stiff, medium plasticity					230
		CLAY, some silt, fine, moist, dark brown, firm, medium plasticity		2		Sample BH22-05-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
2		SILT and CLAY, some sand, fine grained, wet, light brown, loose, limestone inclusions, tratified brown coloration, medium plasticity		3			229
3		CLAY, some silt, fine grained, moist, brown, firm, medium plasticity		4		Sample BH22-05-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4		SILT and clay, some sand, fine grained, light borwn, moist, soft, medium plasticity		5			
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity, lenses of grey sand		6		Sample BH22-05-SS-06 and duplicate BH22-05-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	227
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY:	COMPLETION DATE: 10/31/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-06**
LOCATION: 5535356, 635010.9		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.52

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					231
1				1			
		CLAY, some silt, fine grained, brown, moist, firm, medium plasticity					230
2				2		Sample BH22-06-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, light brown, wet, soft, medium plasticity					229
3				3		Sample BH22-06-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, fine grained, brown, moist, stiff, medium plasticity					228
4				4			
				5		Sample BH22-06-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	227
5		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					

Notes:
1. Borehole backfilled with bentonite upon completion.
2. No groundwater seepage or sloughing observed upon completion.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-07**
LOCATION: 5535356, 0635058.9		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.74

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		SILT, some clay, fine, light brown, moist, compact					231
1				1		Sample BH22-07-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, black, fine grained, moist, firm, low plasticity					230
2		CLAY, some silt, fine, brown, mosit, firm, medium plasticity		2			
							229
		SILT, some clay, light brown, fine grained, wet, soft, low plasticity		3		Sample BH22-07-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3							
				4			228
4							
				5		Sample BH22-07-SS-05 and duplicate BH22-07-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					227
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-08**
LOCATION: 5535333, 635113.8		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.8

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
		CLAY and SILT, some sand, fine grained, light brown, moist, firm, medium plasticity	SS	1		Sample BH22-08-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	231
1		SILT, some clay, fine grained, black, moist, dense, slight hydrocarbon smell	SS	2		Sample BH22-08-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
2		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity	SS	3			230
							229
3		SILT and SAND, some clay, fine grained, light brown, wet, soft, lense of clay between 3.8 - 3.9 m	SS	4		Sample BH22-08-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
4			SS	5			228
			SS	6			
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					227
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-09**
LOCATION: 5535335, 635232.6		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.37

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, CLAY and silt, fine grained, brown, moist, firm, medium plasticity		1		Sample BH22-09-SS-01 was submitted for analysis of metals	231
		CLAY some sit, fine grianed, dark brown, moist, stiff, medium plasticity		2		Sample BH22-09-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
1							230
		SILT, some clay, trace sand, fine grained, light brown, moist, low plasticity		3			
2							229
				4		Sample BH22-09-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, fine grained, dark, brown, moist, stiff, medium plasticity, lenses of sand					
3				5			228
		CLAY, some silt, fine grained, dark brown, moist, firm, medium plasticity		6		Sample BH22-09-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
4		CLAY, some silt, fine grained, brown, moist, stiff, stratified brown coloration					227
				7			
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-10**
LOCATION: 5535313, 635178.6		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.54

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, CLAY and silt, fine grained, light brown moist, firm, medium plasticity, trace limestone and gravel					
		CLAY - organic, fine grained, black, moist, medium plasticity, some wood		1			231
1				2		Sample BH22-10-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, fine grained, dark brown, moist, firm, medium plasticity, trace gravel					230
2				3			
		SILT and clay, fine grained, light brown, wet, soft					229
3				4		Sample BH22-10-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, fine grained, brown, moist, firm, medium plasticity					228
4				5			
		SILT and clay, fine grained, light brown, moist, firm, low plasticity		6		Sample BH22-10-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	227
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-11**
LOCATION: 5535302, 635151.8		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.65

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, firm, low plasticity					231
				1	⊗	Sample BH22-11-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
1		CLAY and SILT, fine grained, black (organic), moist, stiff, medium plasticity					
				2	⊗		230
		SILT and SAND, some clay, trace gravel, fine grained, light brown, wet, loose					
2							
				3	⊗	Sample BH22-11-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
3		CLAY, some silt, fine grained, dark brown, moist, stiff, medium plasticity, lense of silt					
				4	⊗		228
4				5	⊗	Sample BH22-11-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
				6	⊗		227
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-12**
LOCATION: 5535288, 635210.4		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Solid Stem Auger	ELEVATION (m): 231.61

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, brown, fine grained, mosit, firm, medium plasticity					231
1				1		Sample BH22-12-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH, salinity and metals	
				2			230
2		SILT and CLAY, light brown, some sand, fine grained, wet, soft, low plasticity,					
				3		Sample BH22-12-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
3		SILT and CLAY, light brown, fine grained, moist, dense, low plasticity		4			
		CLAY, some silt, brown, fine grained, moist, firm, medium plasticity, silt inclusions					228
4				5		Sample BH22-12-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, brown, fine grained, moist, firm, medium plasticity		6			227
5				7			
							226
6				8			
		CLAY, trace silt, dark brown, fine grained, soft, high plasticity		9			225
7				10			
							224
8				11			
							223
9				12			
							222
10		END OF BOREHOLE @ 10.0 M BELOW GROUND SURFACE IN CLAY					
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					221
11							
							220
12							

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 10.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/2/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-13**
LOCATION: 5535264, 635173.9		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.54

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil and gravel fill, some silt, some clay, dark brown, moist, stiff	☒	1 ⊗		Sample BH22-13-SS-01 was submitted for analysis of metals	
		CLAY, some silt, dark brown, firm, moist, medium plasticity					231
1			☒	2 ⊗		Sample BH22-13-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY, some silt, dark brown, firm, moist, medium plasticity, organic inclusions					230
2		CLAY, some silt, fine grained, greenish gray, moist, firm, medium plasticity, brown oxidation inclusions, lense of silt	☒	3 ⊗			
							229
		- silt lense between 2.8 m - 3.0 m	☒	4 ⊗		Sample BH22-13-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN CLAY					
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					228
4							
							227
5							

AECOM

LOGGED BY: Manny Papadimitropoulos	COMPLETION DEPTH: 3.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-14**
LOCATION: 5535347, 635267.2		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Solid Stem Auger	ELEVATION (m): 231.77

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0	CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					231
1	SILT, fine grained, brown, mosit, firm, medium plasticity		1		Sample BH22-14-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH, salinity and metals	
	CLAY and SILT, fine grained, black, moist, medium plasticity		2			230
2	SILT and SAND, some clay, fine grained, light brown, moist, soft, low plasticity		3		Sample BH22-12-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3			4			229
	CLAY, some silt, fine grained, dark brown, moist, stiff, medium plasticity		5		Sample BH22-12-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4						
	CLAY, some silt, fine grained, dark brown, moist, firm, medium plasticity		6			227
5			7			
6						226
7			8			225
8						224
			9			
9						223
	END OF BOREHOLE @ 9.6 M BELOW GROUND SURFACE IN CLAY					
10						222
11						221
12						220

Notes:
1. Seepage observed during drilling at 1.8 m bgs
2. Two 25" standpipe piezometer with 1 ft Cassagrande tip installed at 2.74 m bgs and 7.32 m bgs, stickup 0.9 m
3. Backfill with bentonite to 7.62 m bgs, then with silica sand to 6.71 m bgs, then by bentonite to 3.05 m bgs, then by silica sand to 2.13 m bgs, then by bentonite to surface.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 10.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/3/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-15**
LOCATION: 5535225, 635227		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.8

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity		1 ⊗		Sample BH22-15-SS-01 was submitted for analysis of metals	231
1							
2		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity, loose, slight hydrocarbon ordor		2 ⊗		Sample BH22-15-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
3		SILT and CLAY, fine grained, light brown, moist, soft, medium plasticity		3 ⊗		Sample BH22-15-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
4		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity		4 ⊗		Sample BH22-15-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
5		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY and SILT Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.		5 ⊗			227

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-16**
LOCATION: 5535245, 635267		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.48

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity					232
1			SPLIT SPOON	1 ⊗		Sample BH22-16-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	231
2			SPLIT SPOON	2 ⊗			230
		SILT and CLAY, trace gravel, fine grained, dark brown, moist, compact, low plasticity					
3			SPLIT SPOON	3 ⊗		Sample BH22-16-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, dark brown, moist, stiff, medium plasticity					
		SILT, some clay, trace sand, fine grained, light brown, wet, soft					229
4			SPLIT SPOON	4 ⊗			
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
			SPLIT SPOON	5 ⊗		Sample BH22-16-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
5		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY and SILT					

Notes:
1. Borehole backfilled with bentonite upon completion.
2. No groundwater seepage or sloughing observed upon completion.

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-17**
LOCATION: 5535240, 635274.1		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.63

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, some roots, fine grained, brown, moist, stiff, medium plasticity		1		Sample BH22-17-SS-01 was submitted for analysis of metals	232
1				2		Sample BH22-17-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					231
2				3		Sample BH22-17-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
							230
3				4			
		SILT and CLAY, trace sand, light brown, wet, soft, low plasticity					
				5		Sample BH22-17-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
4							
				6			
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					228
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-18**
LOCATION: 5535217, 0635232.7		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.95

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
1			SPLIT SPOON	1	⊗	Sample BH22-18-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	231
2		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity, slight hydrocarbon ordor	SPLIT SPOON	2	⊗	Sample BH22-18-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
3		SILT and CLAY, fine grained, light brown, moist, soft, low plasticity	SPLIT SPOON	3	⊗	Sample BH22-18-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
4			SPLIT SPOON	4	⊗		228
		CLAY and SILT, fine grained, brown, moist, firm	SPLIT SPOON	5	⊗		
5		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY and SILT					227

Notes:
1. Borehole backfilled with bentonite upon completion.
2. No groundwater seepage or sloughing observed upon completion.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/5/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-19**
LOCATION: 5535315, 0635303		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Solid Stem Auger	ELEVATION (m): 231.85

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity					
1				1		Sample BH22-19-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	231
		CLAY, some silt, fine grained, black, moist, firm, medium plasticity		2			
2		CLAY, some silt, fine grained, dark brown, moist, stiff, medium plasticity					230
		SILT and CLAY, fine grained, light brown, moist, soft, medium plasticity		3			
				4		Sample BH22-19-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
3		CLAY, some silt, fine grained, brown, moist, firm, medium plasticity					
4				5			228
				6		Sample BH22-19-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
5				7			227
6				8			226
7				9			225
8				10			224
9							223
				11			
10		END OF BOREHOLE @ 10.0 M BELOW GROUND SURFACE IN CLAY					222
11		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					221
12							220

AECOM

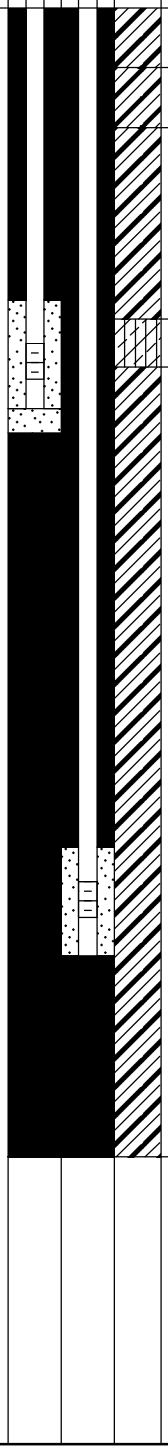
LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 10.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/3/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-20**
LOCATION: 553525, 06035245		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Solid Stem Auger	ELEVATION (m): 231.73

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND



DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0	CLAY, some silt, fine grained, dark brown, moist, firm, medium plasticity					
	CLAY, some silt, fine grained, black, moist, firm, medium plasticity					
1			1		Sample BH22-20-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	231
	CLAY, some silt, fine grained, brown, moist, stiff, medium plasticity		2			
2			3			230
	SILT and CLAY, fine grained, light brown, moist, soft, low plasticity		4		Sample BH22-20-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
3	CLAY, some silt, fine grained, brown, moist, stiff, medium plasticity		5		Sample BH22-20-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4			6			
5			7			227
6			8			226
7			9			225
8			10			224
9						223
10	END OF BOREHOLE @ 9.6 M BELOW GROUND SURFACE IN CLAY		11			222
11	Notes: 1. Seepage observed during drilling at 1.8 m bgs 2. Two 25" standpipe piezometer with 1 ft Cassagrande tip installed at 3.05 m bgs and 7.62 m bgs, stickup 0.9 m 3. Backfill with bentonite to 7.92 m bgs, then with silica sand to 7.01 m bgs, then by bentonite to 3.35 m bgs, then by silica sand to 2.44 m bgs, then by bentonite to surface.					221
12						220

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 10.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-21**
LOCATION: 5535221, 0635338		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.8

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity					231
1				1 ⊗			
		CLAY and SILT, fine grained, brown moist, frim, medium plasticity					230
2				2 ⊗		Sample BH22-21-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		SILT and CLAY, some sand, fine, moist, loose					229
3				3 ⊗		Sample BH22-21-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN SILT and CLAY					
4							228
5							227

Notes:
1. Borehole backfilled with bentonite upon completion.
2. No groundwater seepage or sloughing observed upon completion.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 3.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/5/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-22**
LOCATION: 5535198, 0635366		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.16

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity		1		Sample BH22-22-SS-01 was submitted for analysis of metals	231
1				2		Sample BH22-22-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
2				3			229
		SILT and CLAY, some sand, fine grained, light brown, moist, loose					
3				4		Sample BH22-22-SS-04 and duplicate BH22-22-SS-08 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
				5			
		CLAY and SILT, brown, fine grained, moist, firm, medium plasticity					
4							227
				6		Sample BH22-22-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/5/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-23**
LOCATION: 5535125, 0635402.1		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 230.83

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					230
1				1		Sample BH22-23-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity					229
2		SILT and CLAY, fine grained, light brown, moist, soft, low plasticity		2			
				3		Sample BH22-23-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
3		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
				4			227
4				5		Sample BH22-23-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					226
5		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-24**
LOCATION: 5535158, 0635417		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.01

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity		1 ⊗		Sample BH22-24-SS-01 was submitted for analysis of metals	
1							230
		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity		2 ⊗		Sample BH22-24-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
2		SILT and CLAY, fine grained, light brown, wet, soft, low plasticity					229
				3 ⊗		Sample BH22-24-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
3		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN SILT and CLAY					228
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					
4							227
5							

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 3.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **BH22-25**
LOCATION: 5535298, 635344.9		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.2

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ☰ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, some gravel, fine grained, brown, moist, stiff, medium plasticity	☒	1 ⊗		Sample BH22-25-SS-01 was submitted for analysis of metals	232
1							231
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity	☒	2 ⊗		Sample BH22-25-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
2							230
		SILT, some clay, fine grained, light brown, moist, compact					
		SILT and CLAY, fine grained, black, moist, compact	☒	3 ⊗		Sample BH22-25-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
3		END OF BOREHOLE @ 3.0 M BELOW GROUND SURFACE IN CLAY and SILT					229
		Notes: 1. Borehole backfilled with bentonite upon completion. 2. No groundwater seepage or sloughing observed upon completion.					
4							228
5							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 3.00 m
REVIEWED BY: JM	COMPLETION DATE: 11/5/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **MW22-01**
LOCATION: 5535298, 635096.4		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.83

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		Topsoil, CLAY and silt, fine grained, brown, moist, firm, medium plasticity					
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity, faint hydrocarbon odour		1			232
1							
		CLAY and SILT (organic), fine grained, black, moist, firm, medium plasticity, slight hydrocarbon odour		2		Sample MW22-01-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
							231
2				3			
				4		Sample MW22-01-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
3		SILT and SAND, some clay, fine grained, light brown, wet, soft					
				5			229
4							
		END OF BOREHOLE @ 4.5 M BELOW GROUND SURFACE IN CLAY		6		Sample MW22-01-SS-06 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		Notes: 1. Monitoring well installed upon completion. 2. No groundwater seepage or sloughing observed upon completion.					228
5							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/1/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **MW22-02**
LOCATION: 5535367, 635200.9		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.42

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		SILT and CLAY, trace sand, fine grained, brown mosit, firm, low plasticity					232
1		CLAY and SILT, fine grained, browm moist, stiff, medium plasticity		1		Sample MW22-02-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity					231
2		SILT and CLAY, trace sand, light brown, wet, soft, low plasticity		2			
				3		Sample MW22-02-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
3		CLAY and SILT, fine grained, dark brown, moist, stiff, medium plasticity, lenses of gravel and limestone, inclusions of white sand		4			
4				5		Sample MW22-02-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	229
				6			228
5		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY					

Notes:
1. Monitoring well installed upon completion.
2. No groundwater seepage or sloughing observed upon completion.

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 10/31/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **MW22-03**
LOCATION: 5535324, 635331.8		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 232.78

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity, some concrete					232
1				1 ⊗			
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					231
2				2 ⊗		Sample MW22-03-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		SILT and CLAY, fine grained, light brown, wet, soft, medium plasticity					
				3 ⊗		Sample MW22-03-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	230
3							
				4 ⊗			229
4		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
				5 ⊗		Sample MW22-03-SS-05 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY and SILT					228
5		Notes: 1. Monitoring well installed upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/5/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **MW22-04**
LOCATION: 5535236, 0635301.8		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 233.53

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity					233
1				1	⊗	Sample MW22-04-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					232
2		CLAY and SILT, fine grained, brown, moist, firm, medium plasticty		2	⊗		
		SILT, some clay, fine grained, black, moist, loose					231
3				3	⊗	Sample MW22-04-SS-03 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, brown, moist, firm, medium plasticity					
		SILT and CLAY, some sand, fine grained, light brown, wet, low plasticity					230
4				4	⊗	Sample MW22-04-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
				5	⊗		229
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN SILT and CLAY					
5		Notes: 1. Monitoring well installed upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

PROJECT: NEWPCC	CLIENT: City of Winnipeg	TESTHOLE NO: **MW22-05**
LOCATION: 5535181, 0635405		PROJECT NO.: 60484163
CONTRACTOR: Maple Leaf Drilling	METHOD: Direct Push	ELEVATION (m): 231.78

SAMPLE TYPE: GRAB | SHELBY TUBE | SPLIT SPOON | BULK | NO RECOVERY | CORE

BACKFILL TYPE: BENTONITE | GRAVEL | SLOUGH | GROUT | CUTTINGS | SAND

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	ELEVATION (m)
0		CLAY and SILT, fine grained, brown, moist, stiff, medium plasticity, trace gravel					231
1				1		Sample MW22-05-SS-01 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		CLAY and SILT, fine grained, dark brown, moist, firm, medium plasticity					230
2				2		Sample MW22-05-SS-02 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	
		SILT some clay, fine grained, light brown, moist, firm, no plasticity					229
3				3			
		SILT, some clay, fine grained, light brown, moist, soft, medium plasticity					
				4		Sample MW22-05-SS-04 was submitted for analysis of BTEX, PHC F1-F4, PAH and metals	228
4		CLAY and SILT, fine grained dark brown, moist, firm, medium plasticity					
				5			
		END OF BOREHOLE @ 4.6 M BELOW GROUND SURFACE IN CLAY and SILT					227
5		Notes: 1. Monitoring well installed upon completion. 2. No groundwater seepage or sloughing observed upon completion.					

ENVIRONMENTAL DRAFT (VAPOUR ONLY) NEWPCC-V2.GPJ UMA.GDT 1/29/23

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.60 m
REVIEWED BY: JM	COMPLETION DATE: 11/4/22
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

Appendix C Laboratory Analytical Reports

CERTIFICATE OF ANALYSIS

Work Order	: **WP2310536**	Page	: 1 of 39
Amendment	: **2**		
Client	: **AECOM Canada Ltd.**	Laboratory	: ALS Environmental - Winnipeg
Contact	: Jen Murray	Account Manager	: Judy Dalmaijer
Address	: 99 Commerce Drive Winnipeg MB Canada R3P 0Y7	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4
Telephone	: 204 477 5381	Telephone	: +1 204 255 9720
Project	: 60660698	Date Samples Received	: 02-Jun-2023 11:05
PO	: ----	Date Analysis Commenced	: 05-Jun-2023
C-O-C number	: ----	Issue Date	: 08-Sep-2023 13:39
Sampler	: ----		
Site	: ----		
Quote number	: Soils and Waters (Q88575)		
No. of samples received	: 44		
No. of samples analysed	: 44		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Dung Hoang		Organics, Winnipeg, Manitoba
Jon Fisher	Production Manager, Environmental	Metals, Waterloo, Ontario
Livia Ciolan	Analyst	Organics, Winnipeg, Manitoba
Michelle Michalchuk	Analyst	Organics, Winnipeg, Manitoba
Walt Kippenhuck	Supervisor - Inorganic	Metals, Waterloo, Ontario

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	no units
%	percent
mg/kg	milligrams per kilogram

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Workorder Comments

Amendment (13-June-23): This report has been amended and re-released to allow the reporting of additional analytical data. F4G is required

Amendment (14/06/2023): This report has been amended and re-released to allow the reporting of additional analytical data.

Added hexavalent chromium to _038 Sept 01/23

Sample Comments

Sample	Client Id	*Comment*
WP2310536-021	DUP-02	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-022	BH-23-10-02	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-023	BH-23-10-04	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-024	BH-23-10-09	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-025	BH-23-11-03	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-026	BH-23-11-06	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-027	BH-23-11-11	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.

WP2310536-028	BH-23-08-03	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-029	BH-23-08-06	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-030	BH-23-08-10	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-031	DUP-3	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-032	BH-23-05-03	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-033	BH-23-05-06	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-034	BH-23-05-10	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-035	BH-23-06-02	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-036	BH-23-06-05	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-037	BH-23-06-09	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-038	BH-23-07-03	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-039	BH-23-07-06	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.
WP2310536-040	BH-23-07-11	RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data was not affected by this issue.

Qualifiers

Qualifier	*Description*
AI	*Analytical interferences may be present. Result may be biased high.*
DLHC	*Detection Limit Raised: Dilution required due to high concentration of test analyte(s).*
DLM	*Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).*
R	*The ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum.*

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-03-02	BH-23-03-06	BH-23-03-11	BH-23-04-02	BH-23-04-04
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00
						WP2310536-001	WP2310536-002	WP2310536-003	WP2310536-004	WP2310536-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		21.7	19.5	34.8	25.5	46.9
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		18100	9890	31300	24300	24200
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.63	0.16	0.51	0.60	7.54
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		6.66	3.40	9.35	9.73	16.4
Barium	7440-39-3	E440/WT	0.50	mg/kg		166	89.2	214	254	653
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		0.86	0.44	1.46	1.16	0.88
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		0.32	<0.20	0.36	0.37	7.62
Boron	7440-42-8	E440/WT	5.0	mg/kg		18.5	18.5	22.8	19.3	21.4
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.495	0.126	0.328	0.419	20.1
Calcium	7440-70-2	E440/WT	50	mg/kg		75500	142000	23000	42700	74400
Chromium	7440-47-3	E440/WT	0.50	mg/kg		60.1	24.4	65.1	56.3	1570
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		9.98	6.63	21.6	15.0	7.82
Copper	7440-50-8	E440/WT	0.50	mg/kg		30.0	15.0	41.5	37.4	483
Iron	7439-89-6	E440/WT	50	mg/kg		23100	15100	41600	32600	19300
Lead	7439-92-1	E440/WT	0.50	mg/kg		22.2	6.20	16.8	19.1	615
Lithium	7439-93-2	E440/WT	2.0	mg/kg		25.3	20.5	46.6	32.0	16.8
Magnesium	7439-95-4	E440/WT	20	mg/kg		36100	76900	18400	25400	28000
Manganese	7439-96-5	E440/WT	1.0	mg/kg		436	401	684	598	311
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.76	0.76	1.30	1.38	4.04
Nickel	7440-02-0	E440/WT	0.50	mg/kg		30.7	19.3	55.9	42.9	91.1
Phosphorus	7723-14-0	E440/WT	50	mg/kg		657	411	674	635	13800
Potassium	7440-09-7	E440/WT	100	mg/kg		3350	2140	6930	4830	2020
Selenium	7782-49-2	E440/WT	0.20	mg/kg		0.26	<0.20	0.95	0.70	2.02
Silver	7440-22-4	E440/WT	0.10	mg/kg		0.93	<0.10	0.19	0.48	43.8 DLHC
Sodium	7440-23-5	E440/WT	50	mg/kg		412	819	2160	1010	1200
Strontium	7440-24-6	E440/WT	0.50	mg/kg		75.8	64.2	94.4	91.0	198
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	6900	2700	8600
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.251	0.166	0.478	0.329	0.470

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-03-02	BH-23-03-06	BH-23-03-11	BH-23-04-02	BH-23-04-04
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00
						WP2310536-001	WP2310536-002	WP2310536-003	WP2310536-004	WP2310536-005
						Result	Result	Result	Result	Result
Metals										
Tin	7440-31-5	E440/WT	2.0	mg/kg		4.4	<2.0	<2.0	<2.0	115
Titanium	7440-32-6	E440/WT	1.0	mg/kg		263	476	337	199	135
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	8.42
Uranium	7440-61-1	E440/WT	0.050	mg/kg		1.26	1.35	3.67	2.27	6.44
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		56.6	33.4	92.5	75.0	46.4
Zinc	7440-66-6	E440/WT	2.0	mg/kg		85.0	32.8	116	97.1	1610
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		11.2	14.5	26.0	17.0	3.6
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	0.0165
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	0.048
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.164
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	0.130
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	0.040
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.170
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	0.40
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	No
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	287 DLM
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		122	<50	<50	<50	8390 DLM
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	2990 DLM
F4G-sg	----	E601.F4G/WP	500	mg/kg		----	----	----	----	9260
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		122	<75	<75	<75	11700
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		122	<75	<75	<75	11400
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		103	108	97.9	104	101
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		89.9	73.4	84.8	88.6	50.6
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		79.5	72.6	75.1	77.4	72.5

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-03-02	BH-23-03-06	BH-23-03-11	BH-23-04-02	BH-23-04-04
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00
						WP2310536-001	WP2310536-002	WP2310536-003	WP2310536-004	WP2310536-005
						Result	Result	Result	Result	Result
Volatile Organic Compounds Surrogates										
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		92.0	77.1	86.3	89.5	78.2
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.059
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.063
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.218
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.408
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.802
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.870
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	1.19
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.737
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.316
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.656 AI
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.142
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.886
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.078
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.616
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	0.209
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.775
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	0.566
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	0.224
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.819
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.974
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	1.18
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	12.1
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	0.54
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	1.03
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	5.90
PAHs, total (EPA 16)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	7.87

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-03-02	BH-23-03-06	BH-23-03-11	BH-23-04-02	BH-23-04-04
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00
						WP2310536-001	WP2310536-002	WP2310536-003	WP2310536-004	WP2310536-005
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		90.0	93.8	94.5	91.4	117
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		77.4	80.2	86.6	80.1	81.5
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		102	89.6	94.4	93.1	97.0
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		104	98.0	99.0	95.4	111

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-04-06	BH-23-04-10	BH-23-13-02	BH-23-13-05	BH-23-13-08
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00
						WP2310536-006	WP2310536-007	WP2310536-008	WP2310536-009	WP2310536-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		26.5	33.5	27.0	35.8	19.6
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		32900	26400	20800	24200	9690
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.45	0.47	0.43	2.74	0.23
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		9.95	10.7	7.30	8.45	5.10
Barium	7440-39-3	E440/WT	0.50	mg/kg		203	408	186	322	65.4
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		1.38	1.37	0.93	0.96	0.45
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		0.32	0.33	0.25	1.65	<0.20
Boron	7440-42-8	E440/WT	5.0	mg/kg		22.6	21.0	18.4	21.2	15.1
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.240	0.292	0.297	5.28	0.215
Calcium	7440-70-2	E440/WT	50	mg/kg		18800	18700	52000	64100	98100
Chromium	7440-47-3	E440/WT	0.50	mg/kg		60.9	52.0	44.5	340	23.6
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		16.4	23.7	11.9	9.44	6.42
Copper	7440-50-8	E440/WT	0.50	mg/kg		33.4	38.4	28.2	128	15.2
Iron	7439-89-6	E440/WT	50	mg/kg		37500	34500	28100	26500	15400
Lead	7439-92-1	E440/WT	0.50	mg/kg		16.8	15.0	12.9	166	6.54
Lithium	7439-93-2	E440/WT	2.0	mg/kg		33.0	31.5	28.2	27.6	15.8
Magnesium	7439-95-4	E440/WT	20	mg/kg		19400	13000	30600	28100	51400
Manganese	7439-96-5	E440/WT	1.0	mg/kg		749	1480	420	498	502
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.32	2.30	0.85	1.68	0.77
Nickel	7440-02-0	E440/WT	0.50	mg/kg		48.2	48.5	35.7	46.4	19.3
Phosphorus	7723-14-0	E440/WT	50	mg/kg		570	578	527	3310	464
Potassium	7440-09-7	E440/WT	100	mg/kg		5910	4940	4150	3630	1940
Selenium	7782-49-2	E440/WT	0.20	mg/kg		<0.20	0.41	0.45	0.58	<0.20
Silver	7440-22-4	E440/WT	0.10	mg/kg		0.27	0.14	0.20	10.8	<0.10
Sodium	7440-23-5	E440/WT	50	mg/kg		390	380	701	1210	368
Strontium	7440-24-6	E440/WT	0.50	mg/kg		49.5	85.0	69.0	119	60.2
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	1600	6400	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.387	0.293	0.296	0.380	0.190
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	25.7	<2.0

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-04-06	BH-23-04-10	BH-23-13-02	BH-23-13-05	BH-23-13-08
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00
						WP2310536-006	WP2310536-007	WP2310536-008	WP2310536-009	WP2310536-010
						Result	Result	Result	Result	Result
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg		271	145	336	198	318
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	1.40	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		1.07	1.62	1.60	2.64	0.997
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		95.8	86.6	64.9	68.3	36.5
Zinc	7440-66-6	E440/WT	2.0	mg/kg		98.8	90.1	73.7	441	35.0
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		13.7	13.6	17.8	3.2	11.8
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	0.057	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	No	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	1580 DLM	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	9670 DLM	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	2920 DLM	<50
F4G-sg	----	E601.F4G/WP	500	mg/kg		----	----	----	9420	----
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	14200	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	12600	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		108	110	105	104	106
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		92.8	100	77.4	91.8	82.2
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		96.8	93.0	80.2	108	96.7
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		120	116	86.0	101	106

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-04-06	BH-23-04-10	BH-23-13-02	BH-23-13-05	BH-23-13-08
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00
						WP2310536-006	WP2310536-007	WP2310536-008	WP2310536-009	WP2310536-010
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.485	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.144	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<2.55 DLM	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.624 R	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.623	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.490	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.815	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	1.15	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.335	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.331	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.775	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.085	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	1.29	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.641	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	0.312	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	2.97	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	4.95	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	1.98	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	0.787 AI	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	2.28	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	1.73	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	0.794	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	11.3	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	0.53	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	1.00	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	11.9	<0.20
PAHs, total (EPA 16)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	11.7	<0.20
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		114	114	102	118	119

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-04-06	BH-23-04-10	BH-23-13-02	BH-23-13-05	BH-23-13-08
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00
						WP2310536-006	WP2310536-007	WP2310536-008	WP2310536-009	WP2310536-010
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		74.6	79.9	74.7	82.0	72.4
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		85.0	89.0	85.2	88.6	84.1
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		102	102	95.0	101	95.1

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-01	BH-23-01-03	BH-23-01-06	BH-23-01-10	BH-23-02-02
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	31-May-2023 00:00
						WP2310536-011	WP2310536-012	WP2310536-013	WP2310536-014	WP2310536-015
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		18.2	21.9	22.6	34.4	24.8
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		8890	18800	25500	25200	23000
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.20	1.06	0.69	0.49	0.58
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		4.06	7.05	7.88	9.28	9.44
Barium	7440-39-3	E440/WT	0.50	mg/kg		60.9	183	225	151	248
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		0.38	0.85	1.10	1.29	1.21
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		<0.20	0.41	0.67	0.32	0.37
Boron	7440-42-8	E440/WT	5.0	mg/kg		14.6	20.4	24.6	18.5	19.4
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.208	1.16	0.533	0.224	0.493
Calcium	7440-70-2	E440/WT	50	mg/kg		95400	59700	50000	21800	56800
Chromium	7440-47-3	E440/WT	0.50	mg/kg		21.4	51.8	57.2	49.2	60.8
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		5.89	11.0	12.6	16.1	14.1
Copper	7440-50-8	E440/WT	0.50	mg/kg		13.8	36.8	39.2	40.0	36.8
Iron	7439-89-6	E440/WT	50	mg/kg		13700	24400	30200	35300	31700
Lead	7439-92-1	E440/WT	0.50	mg/kg		6.09	68.9	29.7	15.0	20.2
Lithium	7439-93-2	E440/WT	2.0	mg/kg		14.2	26.4	31.9	32.8	32.0
Magnesium	7439-95-4	E440/WT	20	mg/kg		52600	35000	27700	14700	29500
Manganese	7439-96-5	E440/WT	1.0	mg/kg		459	469	515	464	529
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.69	0.87	0.68	1.36	1.19
Nickel	7440-02-0	E440/WT	0.50	mg/kg		17.2	31.4	37.6	46.0	43.1
Phosphorus	7723-14-0	E440/WT	50	mg/kg		416	702	849	618	675
Potassium	7440-09-7	E440/WT	100	mg/kg		1790	3940	4900	4660	4270
Selenium	7782-49-2	E440/WT	0.20	mg/kg		<0.20	0.36	0.29	2.59	0.50
Silver	7440-22-4	E440/WT	0.10	mg/kg		<0.10	0.59	0.71	0.15	0.51
Sodium	7440-23-5	E440/WT	50	mg/kg		359	630	773	553	606
Strontium	7440-24-6	E440/WT	0.50	mg/kg		62.9	70.7	83.7	84.0	93.0
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.168	0.284	0.310	0.328	0.321
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	5.1	3.2	<2.0	<2.0

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-01	BH-23-01-03	BH-23-01-06	BH-23-01-10	BH-23-02-02
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	31-May-2023 00:00
						WP2310536-011	WP2310536-012	WP2310536-013	WP2310536-014	WP2310536-015
						Result	Result	Result	Result	Result
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg		350	318	290	160	187
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		0.886	1.44	2.06	2.59	1.92
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		32.5	60.8	78.5	77.1	72.4
Zinc	7440-66-6	E440/WT	2.0	mg/kg		31.2	96.2	110	98.4	99.6
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		11.9	13.5	10.4	16.6	16.7
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	86	72	<50	50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	86	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	86	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		102	101	102	104	105
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		78.9	86.1	87.5	86.4	88.2
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		72.8	89.6	80.3	81.1	78.6
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		82.2	98.6	93.4	92.1	92.2
Polycyclic Aromatic Hydrocarbons										

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-01	BH-23-01-03	BH-23-01-06	BH-23-01-10	BH-23-02-02
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	31-May-2023 00:00
						WP2310536-011	WP2310536-012	WP2310536-013	WP2310536-014	WP2310536-015
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.422	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.112 AI	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	0.071	1.23	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	0.138	1.04	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	0.131	0.686	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	0.191	0.823	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	0.265	1.19	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	0.076	0.210	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	0.074	0.366	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	0.124	0.770	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.076	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	0.299	2.68	<0.050	0.084
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.476	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	0.098	0.293	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	0.062	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.142	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	0.080	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	0.016	0.146	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	0.222	3.34	<0.050	0.055
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	0.240	2.17	<0.050	0.065
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	0.208	1.02	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	2.64	13.3	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	0.12	0.60	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	0.23	1.15	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	1.24	13.1	<0.20	0.20
PAHs, total (EPA 16)	n/a	E641A/WT	0.20	mg/kg		<0.20	1.68	14.7	<0.20	0.20
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		115	115	113	114	106

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-01	BH-23-01-03	BH-23-01-06	BH-23-01-10	BH-23-02-02
					Client sampling date / time	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	30-May-2023 00:00	31-May-2023 00:00
						WP2310536-011	WP2310536-012	WP2310536-013	WP2310536-014	WP2310536-015
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		76.3	76.2	78.0	82.5	79.0
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		81.7	86.7	88.9	94.0	88.5
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		96.6	99.1	99.9	103	97.4

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-02-10	BH-23-02-06	BH-23-12-02	BH-23-12-06	BH-23-12-10
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00
						WP2310536-016	WP2310536-017	WP2310536-018	WP2310536-019	WP2310536-020
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		34.7	23.5	24.0	20.7	47.2
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		23600	5680	19800	10400	26000
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.59	0.13	0.39	0.16	0.44
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		15.1	2.15	6.57	3.75	10.2
Barium	7440-39-3	E440/WT	0.50	mg/kg		253	46.0	161	80.2	180
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		1.28	0.24	0.84	0.49	1.30
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		0.31	<0.20	0.27	<0.20	0.32
Boron	7440-42-8	E440/WT	5.0	mg/kg		15.9	14.0	17.4	16.5	15.5
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		1.36	0.077	0.268	0.118	0.191
Calcium	7440-70-2	E440/WT	50	mg/kg		24400	133000	60800	129000	21100
Chromium	7440-47-3	E440/WT	0.50	mg/kg		46.4	14.7	46.7	25.2	48.4
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		18.9	3.12	11.7	6.44	16.5
Copper	7440-50-8	E440/WT	0.50	mg/kg		41.5	8.42	27.7	15.5	35.3
Iron	7439-89-6	E440/WT	50	mg/kg		37600	8440	25300	15800	35000
Lead	7439-92-1	E440/WT	0.50	mg/kg		15.5	3.52	17.1	6.44	15.1
Lithium	7439-93-2	E440/WT	2.0	mg/kg		29.8	9.6	27.2	19.4	33.0
Magnesium	7439-95-4	E440/WT	20	mg/kg		16000	75200	35900	73300	14000
Manganese	7439-96-5	E440/WT	1.0	mg/kg		647	276	472	381	462
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		1.73	0.13	0.79	0.36	1.39
Nickel	7440-02-0	E440/WT	0.50	mg/kg		48.3	9.23	34.1	18.7	45.0
Phosphorus	7723-14-0	E440/WT	50	mg/kg		591	409	542	420	568
Potassium	7440-09-7	E440/WT	100	mg/kg		4620	1320	3650	2390	5170
Selenium	7782-49-2	E440/WT	0.20	mg/kg		0.70	<0.20	<0.20	<0.20	0.61
Silver	7440-22-4	E440/WT	0.10	mg/kg		0.14	<0.10	0.29	<0.10	0.14
Sodium	7440-23-5	E440/WT	50	mg/kg		354	275	657	370	417
Strontium	7440-24-6	E440/WT	0.50	mg/kg		82.4	44.9	65.6	62.0	81.0
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.308	0.085	0.273	0.163	0.329
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	4.2	<2.0	<2.0

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-02-10	BH-23-02-06	BH-23-12-02	BH-23-12-06	BH-23-12-10
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00
						WP2310536-016	WP2310536-017	WP2310536-018	WP2310536-019	WP2310536-020
						Result	Result	Result	Result	Result
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg		130	321	300	473	105
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		1.92	0.626	1.32	0.910	2.02
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		74.2	22.6	59.7	33.3	73.8
Zinc	7440-66-6	E440/WT	2.0	mg/kg		98.3	16.2	71.4	34.2	97.0
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		16.9	8.3	13.4	15.0	15.5
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		104	104	102	103	103
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		85.3	94.6	76.4	82.7	74.4
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		85.2	85.2	90.2	82.5	76.2
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		95.1	100	103	103	96.1
Polycyclic Aromatic Hydrocarbons										

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-02-10	BH-23-02-06	BH-23-12-02	BH-23-12-06	BH-23-12-10
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00
						WP2310536-016	WP2310536-017	WP2310536-018	WP2310536-019	WP2310536-020
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
PAHs, total (EPA 16)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		110	101	102	96.8	104

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-02-10	BH-23-02-06	BH-23-12-02	BH-23-12-06	BH-23-12-10
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00
						WP2310536-016	WP2310536-017	WP2310536-018	WP2310536-019	WP2310536-020
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		83.4	89.0	86.9	97.0	88.1
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		96.3	90.5	94.5	92.0	98.2
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		103	96.6	97.7	95.1	101

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-02	BH-23-10-02	BH-23-10-04	BH-23-10-09	BH-23-11-03
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00
						WP2310536-021	WP2310536-022	WP2310536-023	WP2310536-024	WP2310536-025
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		23.7	40.0	24.5	36.6	32.6
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		7680	26500	26800	26100	32800
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.12	0.41	0.43	0.47	0.36
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		2.43	7.40	9.95	11.2	8.80
Barium	7440-39-3	E440/WT	0.50	mg/kg		62.9	185	255	232	182
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		0.35	1.06	1.24	1.32	1.28
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		<0.20	0.32	0.30	0.32	0.28
Boron	7440-42-8	E440/WT	5.0	mg/kg		15.9	25.1	22.2	18.6	25.0
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.109	0.381	0.220	0.342	0.163
Calcium	7440-70-2	E440/WT	50	mg/kg		131000	30000	32200	16400	33700
Chromium	7440-47-3	E440/WT	0.50	mg/kg		18.4	45.7	54.7	52.5	54.4
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		4.89	12.4	15.8	20.7	14.5
Copper	7440-50-8	E440/WT	0.50	mg/kg		11.3	31.2	34.4	35.1	30.0
Iron	7439-89-6	E440/WT	50	mg/kg		11200	28400	34900	35700	34000
Lead	7439-92-1	E440/WT	0.50	mg/kg		4.86	20.7	14.1	15.4	14.0
Lithium	7439-93-2	E440/WT	2.0	mg/kg		14.6	29.7	42.4	36.0	37.9
Magnesium	7439-95-4	E440/WT	20	mg/kg		72900	23600	24800	14500	25300
Manganese	7439-96-5	E440/WT	1.0	mg/kg		273	655	548	499	668
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.28	0.47	1.34	1.07	0.47
Nickel	7440-02-0	E440/WT	0.50	mg/kg		13.3	34.3	44.6	47.0	44.2
Phosphorus	7723-14-0	E440/WT	50	mg/kg		377	629	545	578	520
Potassium	7440-09-7	E440/WT	100	mg/kg		1770	5320	5180	5420	5440
Selenium	7782-49-2	E440/WT	0.20	mg/kg		<0.20	0.37	<0.20	0.60	<0.20
Silver	7440-22-4	E440/WT	0.10	mg/kg		<0.10	0.24	0.14	0.14	0.17
Sodium	7440-23-5	E440/WT	50	mg/kg		329	694	569	459	941
Strontium	7440-24-6	E440/WT	0.50	mg/kg		54.1	70.6	67.0	82.3	74.0
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.127	0.312	0.356	0.351	0.347
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-02	BH-23-10-02	BH-23-10-04	BH-23-10-09	BH-23-11-03
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00
						WP2310536-021	WP2310536-022	WP2310536-023	WP2310536-024	WP2310536-025
						Result	Result	Result	Result	Result
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg		426	194	282	157	257
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		0.773	1.16	1.36	2.12	3.34
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		25.9	72.3	80.9	79.3	91.5
Zinc	7440-66-6	E440/WT	2.0	mg/kg		24.9	105	92.3	100	90.1
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		12.5	8.1	17.5	17.0	9.3
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		111	106	97.1	95.5	88.9
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		81.4	93.3	87.6	85.9	83.8
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		82.1	78.1	85.7	73.5	91.5
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		90.4	98.9	99.0	89.8	104
Polycyclic Aromatic Hydrocarbons										

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-02	BH-23-10-02	BH-23-10-04	BH-23-10-09	BH-23-11-03
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00
						WP2310536-021	WP2310536-022	WP2310536-023	WP2310536-024	WP2310536-025
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.083
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.058 DLM
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.807
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	3.32
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	4.05
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	4.86
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	7.25
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	1.89
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	2.39
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	3.87
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.609
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	6.88
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	0.153
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	2.31
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	0.020
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	2.57
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	5.43
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	6.00
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	71.9
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	3.55
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	6.75
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	27.8
PAHs, total (EPA 16)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	39.2
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		80.7	77.9	78.4	80.7	79.3

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-02	BH-23-10-02	BH-23-10-04	BH-23-10-09	BH-23-11-03
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00	31-May-2023 00:00
						WP2310536-021	WP2310536-022	WP2310536-023	WP2310536-024	WP2310536-025
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		105	92.5	99.4	95.5	79.4
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		92.3	98.4	98.6	99.6	96.9
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		99.5	95.6	96.8	97.8	97.7

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-11-06	BH-23-11-11	BH-23-08-03	BH-23-08-06	BH-23-08-10
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-026	WP2310536-027	WP2310536-028	WP2310536-029	WP2310536-030
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		23.7	36.4	30.0	43.6	35.4
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		28300	26900	26900	29700	25300
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.42	0.50	0.36	0.35	0.45
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		8.61	9.86	7.47	7.82	7.47
Barium	7440-39-3	E440/WT	0.50	mg/kg		268	177	191	390	254
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		1.32	1.29	1.12	1.27	1.24
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		0.30	0.34	0.26	0.31	0.30
Boron	7440-42-8	E440/WT	5.0	mg/kg		22.4	16.9	19.6	23.5	18.0
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.219	0.289	0.346	0.161	0.276
Calcium	7440-70-2	E440/WT	50	mg/kg		13100	19800	16000	10500	22900
Chromium	7440-47-3	E440/WT	0.50	mg/kg		63.3	45.4	47.5	69.2	46.7
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		16.4	15.0	13.9	17.1	13.9
Copper	7440-50-8	E440/WT	0.50	mg/kg		40.7	33.6	30.5	43.0	36.5
Iron	7439-89-6	E440/WT	50	mg/kg		35900	33400	30600	38800	31700
Lead	7439-92-1	E440/WT	0.50	mg/kg		14.5	16.4	17.2	14.6	14.0
Lithium	7439-93-2	E440/WT	2.0	mg/kg		43.9	31.2	26.4	53.2	31.9
Magnesium	7439-95-4	E440/WT	20	mg/kg		18200	14000	15400	17800	15200
Manganese	7439-96-5	E440/WT	1.0	mg/kg		538	484	632	494	469
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.96	1.15	0.53	0.96	1.14
Nickel	7440-02-0	E440/WT	0.50	mg/kg		48.3	44.4	36.5	53.2	42.8
Phosphorus	7723-14-0	E440/WT	50	mg/kg		559	534	474	640	586
Potassium	7440-09-7	E440/WT	100	mg/kg		5840	4900	5130	6990	4490
Selenium	7782-49-2	E440/WT	0.20	mg/kg		<0.20	0.79	0.37	<0.20	0.82
Silver	7440-22-4	E440/WT	0.10	mg/kg		0.18	0.14	0.19	0.12	0.14
Sodium	7440-23-5	E440/WT	50	mg/kg		922	898	614	1350	1020
Strontium	7440-24-6	E440/WT	0.50	mg/kg		71.3	79.7	67.0	85.0	87.2
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.373	0.282	0.315	0.434	0.294
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-11-06	BH-23-11-11	BH-23-08-03	BH-23-08-06	BH-23-08-10
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-026	WP2310536-027	WP2310536-028	WP2310536-029	WP2310536-030
						Result	Result	Result	Result	Result
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg		327	116	192	583	144
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		1.96	2.21	1.81	2.00	2.65
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		94.5	75.6	78.5	93.6	74.8
Zinc	7440-66-6	E440/WT	2.0	mg/kg		98.6	93.3	91.1	105	94.3
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		20.7	13.2	12.0	23.7	15.0
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		110	99.4	103	104	108
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		77.2	82.9	81.2	76.5	74.4
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		77.8	78.6	86.0	79.0	79.4
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		96.0	92.3	96.4	87.9	94.6
Polycyclic Aromatic Hydrocarbons										

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-11-06	BH-23-11-11	BH-23-08-03	BH-23-08-06	BH-23-08-10
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-026	WP2310536-027	WP2310536-028	WP2310536-029	WP2310536-030
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
PAHs, total (EPA 16)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		82.1	82.1	79.8	78.1	78.3

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-11-06	BH-23-11-11	BH-23-08-03	BH-23-08-06	BH-23-08-10
					Client sampling date / time	31-May-2023 00:00	31-May-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-026	WP2310536-027	WP2310536-028	WP2310536-029	WP2310536-030
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		93.5	96.5	91.1	92.9	88.2
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		95.9	97.7	94.7	97.2	99.3
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		99.4	98.1	95.9	95.0	97.1

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-3	BH-23-05-03	BH-23-05-06	BH-23-05-10	BH-23-06-02
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-031	WP2310536-032	WP2310536-033	WP2310536-034	WP2310536-035
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		38.4	54.6	31.6	47.7	38.6
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		28000	29200	19300	28700	20000
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.48	0.61	0.28	0.42	0.72
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		7.22	9.57	5.22	14.1	6.46
Barium	7440-39-3	E440/WT	0.50	mg/kg		232	226	173	206	203
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		1.35	1.24	0.71	1.43	0.90
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		0.32	0.40	<0.20	0.33	0.57
Boron	7440-42-8	E440/WT	5.0	mg/kg		19.4	24.9	19.0	28.8	20.4
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.329	0.590	0.200	0.214	0.584
Calcium	7440-70-2	E440/WT	50	mg/kg		19600	55300	79900	24800	67700
Chromium	7440-47-3	E440/WT	0.50	mg/kg		50.2	73.7	43.3	53.4	73.8
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		14.6	15.3	10.8	17.0	9.61
Copper	7440-50-8	E440/WT	0.50	mg/kg		38.4	37.4	25.5	38.2	34.8
Iron	7439-89-6	E440/WT	50	mg/kg		33700	31700	24300	39300	23500
Lead	7439-92-1	E440/WT	0.50	mg/kg		14.7	24.0	9.67	16.2	31.6
Lithium	7439-93-2	E440/WT	2.0	mg/kg		34.9	34.5	32.4	37.4	28.6
Magnesium	7439-95-4	E440/WT	20	mg/kg		15300	26000	39800	14100	36700
Manganese	7439-96-5	E440/WT	1.0	mg/kg		517	659	450	494	447
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		1.16	0.81	0.46	1.36	0.76
Nickel	7440-02-0	E440/WT	0.50	mg/kg		44.9	43.2	32.5	47.9	32.8
Phosphorus	7723-14-0	E440/WT	50	mg/kg		560	621	538	572	691
Potassium	7440-09-7	E440/WT	100	mg/kg		5530	4900	3760	5490	3420
Selenium	7782-49-2	E440/WT	0.20	mg/kg		1.00	0.25	<0.20	1.56	0.20
Silver	7440-22-4	E440/WT	0.10	mg/kg		0.16	0.83	0.12	0.13	1.32
Sodium	7440-23-5	E440/WT	50	mg/kg		1000	669	631	470	738
Strontium	7440-24-6	E440/WT	0.50	mg/kg		85.8	82.2	80.8	87.1	75.4
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	<1000	2800	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.309	0.337	0.297	0.350	0.277
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	2.7	<2.0	<2.0	4.0

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-3	BH-23-05-03	BH-23-05-06	BH-23-05-10	BH-23-06-02
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-031	WP2310536-032	WP2310536-033	WP2310536-034	WP2310536-035
						Result	Result	Result	Result	Result
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg		157	282	740	178	285
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		2.80	1.75	1.10	2.35	1.82
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		79.3	89.5	58.1	89.2	61.8
Zinc	7440-66-6	E440/WT	2.0	mg/kg		95.2	109	62.9	102	93.8
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		15.5	11.4	17.7	10.3	9.7
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	No	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	6630 DLM	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	27100 DLM	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	8040 DLM	<50	<50	<50
F4G-sg	----	E601.F4G/WP	500	mg/kg		----	24000	----	----	----
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	41800	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	35100	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		93.9	116	102	102	102
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		83.5	81.8	79.1	88.6	77.9
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		82.7	109	77.7	77.9	94.0
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		100	110	94.4	87.7	107

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-3	BH-23-05-03	BH-23-05-06	BH-23-05-10	BH-23-06-02
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-031	WP2310536-032	WP2310536-033	WP2310536-034	WP2310536-035
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	0.074	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	0.117	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	0.195	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	0.183	<0.050	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	0.278	<0.075	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	0.197	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	0.095	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	0.175	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	0.404	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	0.162	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	0.065	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	0.065	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	0.043	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	0.282	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	0.362	<0.050	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	0.279	<0.065	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	2.90	<0.60	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	0.14	<0.10	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	0.27	<0.10	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	1.72	<0.20	<0.20	<0.20
PAHs, total (EPA 16)	n/a	E641A/WT	0.20	mg/kg		<0.20	2.29	<0.20	<0.20	<0.20
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		85.1	86.6	92.9	103	87.0

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-3	BH-23-05-03	BH-23-05-06	BH-23-05-10	BH-23-06-02
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-031	WP2310536-032	WP2310536-033	WP2310536-034	WP2310536-035
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		96.0	80.2	95.4	103	92.9
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		91.4	101	92.7	116	100
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		102	107	106	122	102

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-06-05	BH-23-06-09	BH-23-07-03	BH-23-07-06	BH-23-07-11
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-036	WP2310536-037	WP2310536-038	WP2310536-039	WP2310536-040
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		36.3	36.9	29.4	25.1	33.6
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		26500	31900	18800	9980	26300
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.40	0.24	3.77	0.17	0.50
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		8.30	6.08	12.6	3.26	11.2
Barium	7440-39-3	E440/WT	0.50	mg/kg		247	343	578	81.0	202
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		1.23	0.98	0.80	0.44	1.36
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		0.28	0.27	4.78	<0.20	0.32
Boron	7440-42-8	E440/WT	5.0	mg/kg		24.3	18.4	21.6	16.3	18.8
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.255	0.138	11.2	0.119	0.238
Calcium	7440-70-2	E440/WT	50	mg/kg		51800	19000	62800	119000	20500
Chromium	7440-47-3	E440/WT	0.50	mg/kg		55.3	71.9	729	23.7	53.1
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		14.7	20.0	9.17	6.55	15.9
Copper	7440-50-8	E440/WT	0.50	mg/kg		31.2	46.3	340	13.8	33.2
Iron	7439-89-6	E440/WT	50	mg/kg		33200	40200	20600	14700	36700
Lead	7439-92-1	E440/WT	0.50	mg/kg		13.5	13.9	445	6.12	15.6
Lithium	7439-93-2	E440/WT	2.0	mg/kg		42.6	66.8	16.1	17.4	33.3
Magnesium	7439-95-4	E440/WT	20	mg/kg		29700	22400	24500	69000	14100
Manganese	7439-96-5	E440/WT	1.0	mg/kg		442	626	436	404	458
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.93	0.56	2.16	0.31	1.29
Nickel	7440-02-0	E440/WT	0.50	mg/kg		42.6	57.0	62.2	18.2	48.4
Phosphorus	7723-14-0	E440/WT	50	mg/kg		514	687	8070	364	571
Potassium	7440-09-7	E440/WT	100	mg/kg		4190	8190	2600	2220	5060
Selenium	7782-49-2	E440/WT	0.20	mg/kg		<0.20	<0.20	1.27	<0.20	1.05
Silver	7440-22-4	E440/WT	0.10	mg/kg		0.14	0.12	27.3	<0.10	0.19
Sodium	7440-23-5	E440/WT	50	mg/kg		531	1190	1200	448	517
Strontium	7440-24-6	E440/WT	0.50	mg/kg		93.8	86.5	148	60.8	83.3
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	6200	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.339	0.537	0.402	0.152	0.304
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	68.0	<2.0	<2.0

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-06-05	BH-23-06-09	BH-23-07-03	BH-23-07-06	BH-23-07-11
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-036	WP2310536-037	WP2310536-038	WP2310536-039	WP2310536-040
						Result	Result	Result	Result	Result
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg		335	1440	189	486	151
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	2.54	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		1.62	1.62	3.60	0.897	2.07
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		84.7	79.0	46.2	32.6	82.9
Zinc	7440-66-6	E440/WT	2.0	mg/kg		84.2	110	958	30.9	104
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		17.3	28.6	1.5	13.7	15.7
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		----	----	0.24	----	----
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	0.0203	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	0.055	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	0.200	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	0.156	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	0.156	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	0.43	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	186	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	75	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	261	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	261	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		102	100	105	97.6	95.5
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		72.1	76.8	85.8	90.2	85.2
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		72.2	74.8	111	96.8	85.0

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-06-05	BH-23-06-09	BH-23-07-03	BH-23-07-06	BH-23-07-11
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-036	WP2310536-037	WP2310536-038	WP2310536-039	WP2310536-040
						Result	Result	Result	Result	Result
Volatile Organic Compounds Surrogates										
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		85.2	97.0	115	104	97.4
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.119	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.063 DLM	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.325	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.603	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.896	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	1.05	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	1.52	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.640	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.470	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.736	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.143	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	1.69	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.178	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.669	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	0.178	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	0.654	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	0.476	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	0.258	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	1.55	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	1.44	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	1.33	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	15.1	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	0.72	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	1.38	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	8.41	<0.20	<0.20
PAHs, total (EPA 16)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	10.8	<0.20	<0.20

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH-23-06-05	BH-23-06-09	BH-23-07-03	BH-23-07-06	BH-23-07-11
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00
						WP2310536-036	WP2310536-037	WP2310536-038	WP2310536-039	WP2310536-040
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		81.3	83.0	94.7	96.1	97.5
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		92.2	94.7	70.2	73.9	81.2
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		95.8	95.0	94.0	74.9	85.7
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		96.7	95.6	102	95.7	100

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-4	BH-23-09-03	BH-23-09-06	BH-23-09-09	----
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	----
						WP2310536-041	WP2310536-042	WP2310536-043	WP2310536-044	--------
						Result	Result	Result	Result	----
Physical Tests										
Moisture	----	E144/WP	0.25	%		17.8	28.0	17.9	28.4	----
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		7850	42200	6130	34600	----
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.15	0.40	0.12	0.49	----
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		3.13	10.9	2.76	9.56	----
Barium	7440-39-3	E440/WT	0.50	mg/kg		72.9	248	45.6	306	----
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		0.33	1.50	0.26	1.47	----
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		<0.20	0.30	<0.20	0.35	----
Boron	7440-42-8	E440/WT	5.0	mg/kg		16.4	27.8	16.6	26.3	----
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.107	0.330	0.088	0.269	----
Calcium	7440-70-2	E440/WT	50	mg/kg		133000	19600	144000	21700	----
Chromium	7440-47-3	E440/WT	0.50	mg/kg		20.3	70.2	17.1	70.2	----
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		4.52	19.6	3.66	16.8	----
Copper	7440-50-8	E440/WT	0.50	mg/kg		11.2	38.8	8.67	39.8	----
Iron	7439-89-6	E440/WT	50	mg/kg		11600	42200	9860	41600	----
Lead	7439-92-1	E440/WT	0.50	mg/kg		4.95	15.7	3.38	16.0	----
Lithium	7439-93-2	E440/WT	2.0	mg/kg		13.9	40.2	11.2	46.6	----
Magnesium	7439-95-4	E440/WT	20	mg/kg		82200	20000	88800	20300	----
Manganese	7439-96-5	E440/WT	1.0	mg/kg		285	1090	250	668	----
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.25	0.60	0.21	1.13	----
Nickel	7440-02-0	E440/WT	0.50	mg/kg		14.0	54.4	11.2	55.3	----
Phosphorus	7723-14-0	E440/WT	50	mg/kg		388	626	394	635	----
Potassium	7440-09-7	E440/WT	100	mg/kg		1620	7920	1260	7170	----
Selenium	7782-49-2	E440/WT	0.20	mg/kg		<0.20	0.34	<0.20	0.49	----
Silver	7440-22-4	E440/WT	0.10	mg/kg		<0.10	0.16	<0.10	0.16	----
Sodium	7440-23-5	E440/WT	50	mg/kg		382	387	264	580	----
Strontium	7440-24-6	E440/WT	0.50	mg/kg		61.4	60.7	55.9	87.1	----
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	<1000	<1000	----
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.129	0.398	0.086	0.485	----
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	----

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-4	BH-23-09-03	BH-23-09-06	BH-23-09-09	----
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	----
						WP2310536-041	WP2310536-042	WP2310536-043	WP2310536-044	--------
						Result	Result	Result	Result	----
Metals										
Titanium	7440-32-6	E440/WT	1.0	mg/kg		434	267	417	378	----
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	----
Uranium	7440-61-1	E440/WT	0.050	mg/kg		0.880	1.16	0.667	2.23	----
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		27.3	122	23.8	103	----
Zinc	7440-66-6	E440/WT	2.0	mg/kg		24.1	116	17.8	116	----
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		11.2	13.1	9.2	20.6	----
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	----
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	----
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	----
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	----
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	----
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	----
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	----
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	----
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	----
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	----
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	----
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	----
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	----
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		94.9	104	102	100	----
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		72.0	106	86.3	77.7	----
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		76.7	116	81.9	71.3	----
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		83.8	116	91.8	82.3	----
Polycyclic Aromatic Hydrocarbons										

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	DUP-4	BH-23-09-03	BH-23-09-06	BH-23-09-09	----
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	----
						WP2310536-041	WP2310536-042	WP2310536-043	WP2310536-044	--------
						Result	Result	Result	Result	----
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	----
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	----
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	----
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	----
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	----
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	----
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	----
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	----
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	----
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	----
PAHs, total (EPA 16)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		87.1	88.6	84.9	98.0	----

Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	DUP-4	BH-23-09-03	BH-23-09-06	BH-23-09-09	----
					Client sampling date / time	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	01-Jun-2023 00:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit		WP2310536-041	WP2310536-042	WP2310536-043	WP2310536-044	--------
						Result	Result	Result	Result	----
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		87.7	83.7	100.0	91.4	----
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		91.9	95.3	87.6	79.9	----
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		93.0	96.6	86.9	105	----

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WP2310536**	Page	: 1 of 37
Amendment	: **2**		
Client	: **AECOM Canada Ltd.**	Laboratory	: ALS Environmental - Winnipeg
Contact	: Jen Murray	Account Manager	: Judy Dalmaijer
Address	: 99 Commerce Drive Winnipeg MB Canada R3P 0Y7	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4
Telephone	: 204 477 5381	Telephone	: +1 204 255 9720
Project	: 60660698	Date Samples Received	: 02-Jun-2023 11:05
PO	: ----	Issue Date	: 08-Sep-2023 13:45
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: Soils and Waters (Q88575)		
No. of samples received	: 44		
No. of samples analysed	: 44		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Matrix Spike outliers occur.
- Laboratory Control Sample (LCS) outliers occur - please see following pages for full details.
- Test sample Surrogate recovery outliers exist for all regular sample matrices - please see following pages for full details.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Laboratory Control Sample (LCS) Recoveries								
Metals	QC-976274-002	----	Silver	7440-22-4	E440	62.8 % RRQC	80.0-120%	Recovery less than lower control limit

Result Qualifiers

Qualifier	*Description*
RRQC	*Refer to report comments for information regarding this QC result.*

Regular Sample Surrogates

Sub-Matrix: **Soil**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Result	Limits	Comment
Samples Submitted							
Hydrocarbons Surrogates	WP2310536-005	BH-23-04-04	Dichlorotoluene, 3,4-	95-75-0	50.6 %	70.0-130 %	Recovery less than lower data quality objective

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-05-03	E581.F1	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-05-06	E581.F1	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-05-10	E581.F1	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-06-02	E581.F1	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-06-05	E581.F1	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-06-09	E581.F1	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-08-03	E581.F1	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-08-06	E581.F1	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-08-10	E581.F1	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
DUP-3	E581.F1	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-07-03	E581.F1	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-07-06	E581.F1	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-07-11	E581.F1	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-09-03	E581.F1	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-09-06	E581.F1	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-09-09	E581.F1	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
DUP-4	E581.F1	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-02-02	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-02-06	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-02-10	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-10-02	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-10-04	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-10-09	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-11-03	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-11-06	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-11-11	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-12-02	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-12-06	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-12-10	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
DUP-02	E581.F1	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-01-03	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-01-06	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-01-10	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH-23-03-02	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-03-06	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-03-11	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-04-02	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-04-04	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-04-06	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-04-10	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-13-02	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-13-05	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH-23-13-08	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial DUP-01	E581.F1	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap BH-23-05-03	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap BH-23-05-06	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap BH-23-05-10	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap BH-23-06-02	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap BH-23-06-05	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap BH-23-06-09	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap BH-23-07-03	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap BH-23-07-06	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-07-11	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-08-03	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-08-06	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-08-10	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
DUP-3	E601.SG	01-Jun-2023	06-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-02-02	E601.SG	31-May-2023	05-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-02-06	E601.SG	31-May-2023	05-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-02-10	E601.SG	31-May-2023	05-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-12-02	E601.SG	31-May-2023	05-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	3 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-12-06	E601.SG	31-May-2023	05-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-12-10	E601.SG	31-May-2023	05-Jun-2023	14 days	6 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-09-03	E601.SG	01-Jun-2023	08-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-09-06	E601.SG	01-Jun-2023	08-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-09-09	E601.SG	01-Jun-2023	08-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
DUP-4	E601.SG	01-Jun-2023	08-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-10-02	E601.SG	31-May-2023	06-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-10-04	E601.SG	31-May-2023	06-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-10-09	E601.SG	31-May-2023	06-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	2 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-11-03	E601.SG	31-May-2023	06-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-11-06	E601.SG	31-May-2023	06-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-11-11	E601.SG	31-May-2023	06-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
DUP-02	E601.SG	31-May-2023	06-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	2 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-01-03	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-01-06	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-01-10	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-03-02	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-03-06	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-03-11	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-04-02	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-04-04	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-04-06	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-04-10	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-13-02	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-13-05	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH-23-13-08	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
DUP-01	E601.SG	30-May-2023	05-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	3 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F4G by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-05-03	E601.F4G	01-Jun-2023	13-Jun-2023	14 days	12 days	✓	13-Jun-2023	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-04-04	E601.F4G	30-May-2023	13-Jun-2023	14 days	14 days	✓	13-Jun-2023	40 days	0 days	✓
Hydrocarbons : CCME PHCs - F4G by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-13-05	E601.F4G	30-May-2023	13-Jun-2023	14 days	14 days	✓	13-Jun-2023	40 days	0 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-01-03	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-01-06	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-01-10	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-03-02	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-03-06	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-03-11	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-04-02	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-04-04	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-04-06	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-04-10	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-13-02	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-13-05	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-13-08	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
DUP-01	E440	30-May-2023	08-Jun-2023	180 days	10 days	✓	08-Jun-2023	180 days	10 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-05-03	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-05-06	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-05-10	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-06-02	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-06-05	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-06-09	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-07-03	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-07-06	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-07-11	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-08-03	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-08-06	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-08-10	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
DUP-3	E440	01-Jun-2023	08-Jun-2023	180 days	7 days	✓	08-Jun-2023	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-09-03	E440	01-Jun-2023	09-Jun-2023	180 days	8 days	✓	09-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-09-06	E440	01-Jun-2023	09-Jun-2023	180 days	8 days	✓	09-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-09-09	E440	01-Jun-2023	09-Jun-2023	180 days	8 days	✓	09-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-10-02	E440	31-May-2023	08-Jun-2023	180 days	8 days	✓	08-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-10-04	E440	31-May-2023	08-Jun-2023	180 days	8 days	✓	08-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-10-09	E440	31-May-2023	08-Jun-2023	180 days	8 days	✓	08-Jun-2023	180 days	9 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-11-03	E440	31-May-2023	08-Jun-2023	180 days	8 days	✓	08-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-11-06	E440	31-May-2023	08-Jun-2023	180 days	8 days	✓	08-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-11-11	E440	31-May-2023	08-Jun-2023	180 days	8 days	✓	08-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
DUP-02	E440	31-May-2023	08-Jun-2023	180 days	8 days	✓	08-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
DUP-4	E440	01-Jun-2023	09-Jun-2023	180 days	8 days	✓	09-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-02-02	E440	31-May-2023	08-Jun-2023	180 days	9 days	✓	08-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-02-06	E440	31-May-2023	08-Jun-2023	180 days	9 days	✓	08-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-02-10	E440	31-May-2023	08-Jun-2023	180 days	9 days	✓	08-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-12-02	E440	31-May-2023	08-Jun-2023	180 days	9 days	✓	08-Jun-2023	180 days	9 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-12-06	E440	31-May-2023	08-Jun-2023	180 days	9 days	✓	08-Jun-2023	180 days	9 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH-23-12-10	E440	31-May-2023	08-Jun-2023	180 days	9 days	✓	08-Jun-2023	180 days	9 days	✓
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-05-03	E144	01-Jun-2023	----	----	----		06-Jun-2023	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-05-06	E144	01-Jun-2023	----	----	----		06-Jun-2023	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-05-10	E144	01-Jun-2023	----	----	----		06-Jun-2023	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-06-02	E144	01-Jun-2023	----	----	----		06-Jun-2023	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-06-05	E144	01-Jun-2023	----	----	----		06-Jun-2023	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-06-09	E144	01-Jun-2023	----	----	----		06-Jun-2023	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-08-03	E144	01-Jun-2023	----	----	----		06-Jun-2023	----	6 days	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-08-06	E144	01-Jun-2023	----	----	----		06-Jun-2023	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-08-10	E144	01-Jun-2023	----	----	----		06-Jun-2023	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
DUP-3	E144	01-Jun-2023	----	----	----		06-Jun-2023	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-02-02	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-02-06	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-02-10	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-07-03	E144	01-Jun-2023	----	----	----		08-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-07-06	E144	01-Jun-2023	----	----	----		08-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-07-11	E144	01-Jun-2023	----	----	----		08-Jun-2023	----	7 days	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-09-03	E144	01-Jun-2023	----	----	----		08-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-09-06	E144	01-Jun-2023	----	----	----		08-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-09-09	E144	01-Jun-2023	----	----	----		08-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-10-02	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-10-04	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-10-09	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-11-03	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-11-06	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-11-11	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-12-02	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-12-06	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-12-10	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
DUP-02	E144	31-May-2023	----	----	----		06-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
DUP-4	E144	01-Jun-2023	----	----	----		08-Jun-2023	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-01-03	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-01-06	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-01-10	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-03-02	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-03-06	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-03-11	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-04-02	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-04-04	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-04-06	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-04-10	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-13-02	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-13-05	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH-23-13-08	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap DUP-01	E144	30-May-2023	----	----	----		06-Jun-2023	----	8 days	
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap BH-23-09-03	E641A	01-Jun-2023	07-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap BH-23-09-06	E641A	01-Jun-2023	07-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap BH-23-09-09	E641A	01-Jun-2023	07-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap DUP-4	E641A	01-Jun-2023	07-Jun-2023	14 days	7 days	✓	08-Jun-2023	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap BH-23-02-02	E641A	31-May-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap BH-23-02-06	E641A	31-May-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap BH-23-02-10	E641A	31-May-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap BH-23-05-03	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-05-06	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-05-10	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-06-02	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-06-05	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-06-09	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-07-03	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-07-06	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-07-11	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-08-03	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-08-06	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-08-10	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-12-02	E641A	31-May-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-12-06	E641A	31-May-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-12-10	E641A	31-May-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
DUP-3	E641A	01-Jun-2023	08-Jun-2023	14 days	8 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-01-03	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-01-06	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-01-10	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-03-02	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-03-06	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-03-11	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-04-02	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-04-04	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-04-06	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-04-10	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-10-02	E641A	31-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-10-04	E641A	31-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-10-09	E641A	31-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-11-03	E641A	31-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-11-06	E641A	31-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-11-11	E641A	31-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-13-02	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-13-05	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH-23-13-08	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
DUP-01	E641A	30-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
DUP-02	E641A	31-May-2023	08-Jun-2023	14 days	9 days	✓	08-Jun-2023	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH-23-07-03	E532	01-Jun-2023	05-Sep-2023	30 days	97 days	× EHT	07-Sep-2023	7 days	2 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-05-03	E611A	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-05-06	E611A	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-05-10	E611A	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-06-02	E611A	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-06-05	E611A	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-06-09	E611A	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-08-03	E611A	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-08-06	E611A	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-08-10	E611A	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
DUP-3	E611A	01-Jun-2023	05-Jun-2023	40 days	5 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-07-03	E611A	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-07-06	E611A	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-07-11	E611A	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-09-03	E611A	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-09-06	E611A	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-09-09	E611A	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
DUP-4	E611A	01-Jun-2023	07-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-02-02	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-02-06	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-02-10	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-10-02	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-10-04	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-10-09	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-11-03	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-11-06	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-11-11	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-12-02	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-12-06	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-12-10	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
DUP-02	E611A	31-May-2023	05-Jun-2023	40 days	6 days	✓	08-Jun-2023	40 days	9 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-01-03	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-01-06	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-01-10	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-03-02	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-03-06	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-03-11	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-04-02	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-04-04	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-04-06	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-04-10	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-13-02	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-13-05	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH-23-13-08	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓
Volatile Organic Compounds [Fuels] : BTEX by Headspace GC-MS										
Glass soil methanol vial										
DUP-01	E611A	30-May-2023	05-Jun-2023	40 days	7 days	✓	08-Jun-2023	40 days	10 days	✓

Legend & Qualifier Definitions

EHT: Exceeded ALS recommended hold time prior to analysis.

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: ✗ = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
BTEX by Headspace GC-MS	E611A	972468	1	60	1.6	5.0	✗
CCME PHC - F1 by Headspace GC-FID	E581.F1	972469	2	60	3.3	5.0	✗
CCME PHCs - F2-F4 by GC-FID	E601.SG	972727	3	60	5.0	5.0	✓
CCME PHCs - F4G by Gravimetry	E601.F4G	985344	0	6	0.0	5.0	✗
Hexavalent Chromium (Cr VI) by IC	E532	1119166	1	20	5.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	976267	3	44	6.8	5.0	✓
Moisture Content by Gravimetry	E144	974345	3	60	5.0	5.0	✓
PAHs by Hex:Ace GC-MS	E641A	976266	3	56	5.3	5.0	✓
Laboratory Control Samples (LCS)							
BTEX by Headspace GC-MS	E611A	972468	3	60	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	972469	3	60	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID	E601.SG	972727	3	60	5.0	5.0	✓
CCME PHCs - F4G by Gravimetry	E601.F4G	985344	1	6	16.6	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	1119166	2	20	10.0	10.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	976267	6	44	13.6	10.0	✓
Moisture Content by Gravimetry	E144	974345	3	60	5.0	5.0	✓
PAHs by Hex:Ace GC-MS	E641A	976266	3	56	5.3	5.0	✓
Method Blanks (MB)							
BTEX by Headspace GC-MS	E611A	972468	3	60	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	972469	3	60	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID	E601.SG	972727	3	60	5.0	5.0	✓
CCME PHCs - F4G by Gravimetry	E601.F4G	985344	1	6	16.6	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	1119166	1	20	5.0	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	976267	3	44	6.8	5.0	✓
Moisture Content by Gravimetry	E144	974345	3	60	5.0	5.0	✓
PAHs by Hex:Ace GC-MS	E641A	976266	3	56	5.3	5.0	✓
Matrix Spikes (MS)							
BTEX by Headspace GC-MS	E611A	972468	1	60	1.6	5.0	✗
CCME PHC - F1 by Headspace GC-FID	E581.F1	972469	2	60	3.3	5.0	✗
CCME PHCs - F2-F4 by GC-FID	E601.SG	972727	3	60	5.0	5.0	✓
CCME PHCs - F4G by Gravimetry	E601.F4G	985344	0	6	0.0	5.0	✗
PAHs by Hex:Ace GC-MS	E641A	976266	3	56	5.3	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Moisture Content by Gravimetry	E144 ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Waterloo	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Hexavalent Chromium (Cr VI) by IC	E532 ALS Environmental - Waterloo	Soil/Solid	APHA 3500-CR C	Instrumental analysis is performed by ion chromatography with UV detection.
CCME PHC - F1 by Headspace GC-FID	E581.F1 ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
CCME PHCs - F4G by Gravimetry	E601.F4G ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1	A portion of the silica gel treated sample extract is filtered and dried at 105°C and the mass of the residual gravimetric heavy hydrocarbons (F4G) is determined gravimetrically. Where both F4 and F4G are reported, the greater of both results must be used for comparison to CWS PHC F4 guidelines.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
CCME PHCs - F2-F4 by GC-FID	E601.SG ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
BTEX by Headspace GC-MS	E611A ALS Environmental - Winnipeg	Soil/Solid	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hex:Ace GC-MS	E641A ALS Environmental - Waterloo	Soil/Solid	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are extracted with hexane/acetone and analyzed by GC-MS. If reported, IACR (index of additive cancer risk, unitless) and B(a)P toxic potency equivalent (in soil concentration units) are calculated as per CCME PAH Soil Quality Guidelines fact sheet (2010) or ABT1.
F1-BTEX	EC580 ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for Metals and Mercury	EP440 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO_3 and HCl. This method is intended to liberate metals that may be environmentally available.
Preparation of Hexavalent Chromium (Cr VI) for IC	EP532 ALS Environmental - Waterloo	Soil/Solid	EPA 3060A	Field moist samples are digested with a sodium hydroxide/sodium carbonate solution as described in EPA 3060A.
VOCs Methanol Extraction for Headspace Analysis	EP581 ALS Environmental - Winnipeg	Soil/Solid	EPA 5035A (mod)	VOCs in samples are extracted with methanol. Extracts are then prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PHCs and PAHs Hexane-Acetone Tumbler Extraction	EP601 ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1 (mod)	Samples are subsampled and Petroleum Hydrocarbons (PHC) and PAHs are extracted with 1:1 hexane:acetone using a rotary extractor.

QUALITY CONTROL REPORT

Work Order	: **WP2310536**	Page	: 1 of 29
Amendment	: **2**		
Client	: AECOM Canada Ltd.	Laboratory	: ALS Environmental - Winnipeg
Contact	: Jen Murray	Account Manager	: Judy Dalmaijer
Address	: 99 Commerce Drive Winnipeg MB Canada R3P 0Y7	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4
Telephone	:	Telephone	: +1 204 255 9720
Project	: 60660698	Date Samples Received	: 02-Jun-2023 11:05
PO	: ----	Date Analysis Commenced	: 05-Jun-2023
C-O-C number	: ----	Issue Date	: 08-Sep-2023 13:45
Sampler	: ---- 204 477 5381		
Site	: ----		
Quote number	: Soils and Waters (Q88575)		
No. of samples received	: 44		
No. of samples analysed	: 44		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Amaninder Dhillon	Team Lead - Semi-Volatile Instrumentation	Waterloo Organics, Waterloo, Ontario
Dung Hoang		Winnipeg Organics, Winnipeg, Manitoba
Jon Fisher	Production Manager, Environmental	Waterloo Metals, Waterloo, Ontario
Livia Ciolan	Analyst	Winnipeg Organics, Winnipeg, Manitoba
Michelle Michalchuk	Analyst	Winnipeg Organics, Winnipeg, Manitoba
Walt Kippenhuck	Supervisor - Inorganic	Waterloo Metals, Waterloo, Ontario

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 974345)											
WP2310380-001	Anonymous	Moisture	----	E144	0.25	%	25.8	25.6	1.09%	20%	----
Physical Tests (QC Lot: 974565)											
WP2310536-018	BH-23-12-02	Moisture	----	E144	0.25	%	24.0	20.5	15.7%	20%	----
Physical Tests (QC Lot: 978142)											
WP2308450-004	Anonymous	Moisture	----	E144	0.25	%	10.2	8.74	15.1%	20%	----
Metals (QC Lot: 976267)											
WP2310536-001	BH-23-03-02	Aluminum	7429-90-5	E440	50	mg/kg	18100	20100	10.5%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	0.63	0.62	0.01	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	6.66	7.32	9.40%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	166	174	4.65%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.86	0.90	4.12%	30%	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	0.32	0.35	0.02	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	18.5	19.8	1.4	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.495	0.573	14.6%	30%	----
		Calcium	7440-70-2	E440	50	mg/kg	75500	80300	6.16%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	60.1	65.0	7.75%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	9.98	10.9	9.02%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	30.0	32.8	8.72%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	23100	25200	8.71%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	22.2	23.5	5.44%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	25.3	27.7	8.89%	30%	----
		Magnesium	7439-95-4	E440	20	mg/kg	36100	41700	14.4%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	436	495	12.6%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.76	0.83	7.59%	40%	----
		Nickel	7440-02-0	E440	0.50	mg/kg	30.7	33.7	9.32%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	657	701	6.51%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	3350	3640	8.12%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	0.26	0.28	0.01	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	0.93	0.97	4.73%	40%	----
		Sodium	7440-23-5	E440	50	mg/kg	412	463	11.4%	40%	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Metals (QC Lot: 976267) - continued											
WP2310536-001	BH-23-03-02	Strontium	7440-24-6	E440	0.50	mg/kg	75.8	82.0	7.82%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	0.251	0.275	0.024	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	4.4	3.3	1.1	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	263	306	15.1%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	1.26	1.38	9.09%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	56.6	61.6	8.33%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	85.0	94.1	10.2%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	11.2	12.8	13.8%	30%	----
Metals (QC Lot: 976274)											
WP2310536-021	DUP-02	Aluminum	7429-90-5	E440	50	mg/kg	7680	6640	14.4%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	0.12	0.11	0.02	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	2.43	2.24	8.41%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	62.9	55.4	12.6%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.35	0.29	0.06	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	15.9	14.5	1.4	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.109	0.101	0.008	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	131000	121000	8.56%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	18.4	16.7	9.59%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	4.89	4.28	13.4%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	11.3	9.88	13.2%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	11200	10100	10.0%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	4.86	4.26	13.1%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	14.6	12.5	14.9%	30%	----
		Magnesium	7439-95-4	E440	20	mg/kg	72900	70300	3.56%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	273	242	11.9%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.28	0.24	0.04	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	13.3	11.5	14.7%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	377	340	10.3%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	1770	1590	10.7%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Metals (QC Lot: 976274) - continued											
WP2310536-021	DUP-02	Sodium	7440-23-5	E440	50	mg/kg	329	303	8.34%	40%	----
		Strontium	7440-24-6	E440	0.50	mg/kg	54.1	48.9	10.2%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	0.127	0.108	0.020	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	426	375	12.5%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	0.773	0.680	12.9%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	25.9	23.0	11.8%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	24.9	22.3	10.9%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	12.5	10.4	18.4%	30%	----
Metals (QC Lot: 976627)											
WP2310536-041	DUP-4	Aluminum	7429-90-5	E440	50	mg/kg	7850	8420	7.03%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	0.15	0.16	0.006	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	3.13	3.25	3.63%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	72.9	69.9	4.17%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.33	0.34	0.009	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	16.4	17.3	1.0	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.107	0.107	0.0002	Diff <2x LOR	----
		Calcium	7440-70-2	E440	50	mg/kg	133000	136000	2.71%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	20.3	21.6	6.21%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	4.52	4.61	1.79%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	11.2	11.4	1.76%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	11600	11900	2.43%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	4.95	5.00	0.943%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	13.9	14.9	7.14%	30%	----
		Magnesium	7439-95-4	E440	20	mg/kg	82200	84400	2.68%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	285	295	3.55%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.25	0.27	0.02	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	14.0	14.5	3.40%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	388	396	2.21%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	1620	1760	7.86%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Metals (QC Lot: 976627) - continued											
WP2310536-041	DUP-4	Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	382	385	0.742%	40%	----
		Strontium	7440-24-6	E440	0.50	mg/kg	61.4	59.5	3.10%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	0.129	0.131	0.002	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	434	464	6.71%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	0.880	0.876	0.564%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	27.3	28.8	5.46%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	24.1	24.6	2.12%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	11.2	12.3	9.71%	30%	----
Speciated Metals (QC Lot: 1119166)											
WP2310536-038	BH-23-07-03	Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	0.24	0.28	0.04	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 972498)											
WP2310536-018	BH-23-12-02	Benzene	71-43-2	E611A	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	<0.015	0	Diff <2x LOR	----
		Toluene	108-88-3	E611A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 972499)											
WP2310536-018	BH-23-12-02	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 972727)											
WP2310536-002	BH-23-03-06	F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	<25	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	<50	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 974600)											
WP2310536-021	DUP-02	F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	<25	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	<50	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 978129)											
WP2310929-003	Anonymous	F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	26	2	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	<50	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Polycyclic Aromatic Hydrocarbons (QC Lot: 976266)											
WP2310536-001	BH-23-03-02	Acenaphthene	83-32-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acenaphthylene	208-96-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acridine	260-94-6	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Anthracene	120-12-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benz(a)anthracene	56-55-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(a)pyrene	50-32-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.050	mg/kg	<0.050	0.054	0.004	Diff <2x LOR	J
		Benzo(g,h,i)perylene	191-24-2	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Chrysene	218-01-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluoranthene	206-44-0	E641A	0.050	mg/kg	<0.050	0.062	0.012	Diff <2x LOR	J
		Fluorene	86-73-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Naphthalene	91-20-3	E641A	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Phenanthrene	85-01-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Pyrene	129-00-0	E641A	0.050	mg/kg	<0.050	0.061	0.011	Diff <2x LOR	J
		Quinoline	91-22-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Polycyclic Aromatic Hydrocarbons (QC Lot: 976283)											
WP2310536-021	DUP-02	Acenaphthene	83-32-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acenaphthylene	208-96-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acridine	260-94-6	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Anthracene	120-12-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benz(a)anthracene	56-55-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(a)pyrene	50-32-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Chrysene	218-01-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluoranthene	206-44-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluorene	86-73-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Polycyclic Aromatic Hydrocarbons (QC Lot: 976283) - continued											
WP2310536-021	DUP-02	Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Naphthalene	91-20-3	E641A	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Phenanthrene	85-01-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Pyrene	129-00-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Quinoline	91-22-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Polycyclic Aromatic Hydrocarbons (QC Lot: 976661)											
WT2315940-001	Anonymous	Acenaphthene	83-32-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acenaphthylene	208-96-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acridine	260-94-6	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Anthracene	120-12-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benz(a)anthracene	56-55-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(a)pyrene	50-32-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Chrysene	218-01-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluoranthene	206-44-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluorene	86-73-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Naphthalene	91-20-3	E641A	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Phenanthrene	85-01-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Pyrene	129-00-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Quinoline	91-22-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----

Qualifiers

Qualifier	*Description*
J	*Duplicate results and limits are expressed in terms of absolute difference.*

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 974345)						
Moisture	----	E144	0.25	%	<0.25	----
Physical Tests (QCLot: 974565)						
Moisture	----	E144	0.25	%	<0.25	----
Physical Tests (QCLot: 978142)						
Moisture	----	E144	0.25	%	<0.25	----
Metals (QCLot: 976267)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	----
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	----
Boron	7440-42-8	E440	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
Calcium	7440-70-2	E440	50	mg/kg	<50	----
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
Iron	7439-89-6	E440	50	mg/kg	<50	----
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
Lithium	7439-93-2	E440	2	mg/kg	<2.0	----
Magnesium	7439-95-4	E440	20	mg/kg	<20	----
Manganese	7439-96-5	E440	1	mg/kg	<1.0	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
Phosphorus	7723-14-0	E440	50	mg/kg	<50	----
Potassium	7440-09-7	E440	100	mg/kg	<100	----
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E440	50	mg/kg	<50	----
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 976267) - continued						
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 976274)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	----
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	----
Boron	7440-42-8	E440	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
Calcium	7440-70-2	E440	50	mg/kg	<50	----
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
Iron	7439-89-6	E440	50	mg/kg	<50	----
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
Lithium	7439-93-2	E440	2	mg/kg	<2.0	----
Magnesium	7439-95-4	E440	20	mg/kg	<20	----
Manganese	7439-96-5	E440	1	mg/kg	<1.0	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
Phosphorus	7723-14-0	E440	50	mg/kg	<50	----
Potassium	7440-09-7	E440	100	mg/kg	<100	----
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E440	50	mg/kg	<50	----
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 976274) - continued						
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 976627)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	----
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	----
Boron	7440-42-8	E440	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
Calcium	7440-70-2	E440	50	mg/kg	<50	----
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
Iron	7439-89-6	E440	50	mg/kg	<50	----
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
Lithium	7439-93-2	E440	2	mg/kg	<2.0	----
Magnesium	7439-95-4	E440	20	mg/kg	<20	----
Manganese	7439-96-5	E440	1	mg/kg	<1.0	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
Phosphorus	7723-14-0	E440	50	mg/kg	<50	----
Potassium	7440-09-7	E440	100	mg/kg	<100	----
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E440	50	mg/kg	<50	----
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 976627) - continued						
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Speciated Metals (QCLot: 1119166)						
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	----
Volatile Organic Compounds (QCLot: 972468)						
Benzene	71-43-2	E611A	0.005	mg/kg	<0.0050	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	----
Toluene	108-88-3	E611A	0.05	mg/kg	<0.050	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	<0.030	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	<0.030	----
Volatile Organic Compounds (QCLot: 972498)						
Benzene	71-43-2	E611A	0.005	mg/kg	<0.0050	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	----
Toluene	108-88-3	E611A	0.05	mg/kg	<0.050	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	<0.030	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	<0.030	----
Volatile Organic Compounds (QCLot: 975931)						
Benzene	71-43-2	E611A	0.005	mg/kg	<0.0050	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	----
Toluene	108-88-3	E611A	0.05	mg/kg	<0.050	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	<0.030	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	<0.030	----
Hydrocarbons (QCLot: 972469)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons (QCLot: 972499)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons (QCLot: 972727)						
F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	----
F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Hydrocarbons (QCLot: 972727) - continued						
F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	----
Hydrocarbons (QCLot: 974600)						
F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	----
F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	----
Hydrocarbons (QCLot: 975932)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons (QCLot: 978129)						
F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	----
F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	----
Hydrocarbons (QCLot: 985344)						
F4G-sg	----	E601.F4G	500	mg/kg	<500	----
Polycyclic Aromatic Hydrocarbons (QCLot: 976266)						
Acenaphthene	83-32-9	E641A	0.05	mg/kg	<0.050	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	<0.050	----
Acridine	260-94-6	E641A	0.05	mg/kg	<0.050	----
Anthracene	120-12-7	E641A	0.05	mg/kg	<0.050	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	<0.050	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	<0.050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	<0.050	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	<0.050	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	<0.050	----
Chrysene	218-01-9	E641A	0.05	mg/kg	<0.050	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	<0.050	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	<0.050	----
Fluorene	86-73-7	E641A	0.05	mg/kg	<0.050	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	<0.050	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	<0.030	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	<0.030	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	<0.010	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	<0.050	----
Pyrene	129-00-0	E641A	0.05	mg/kg	<0.050	----
Quinoline	91-22-5	E641A	0.05	mg/kg	<0.050	----
Polycyclic Aromatic Hydrocarbons (QCLot: 976283)						

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 976283) - continued						
Acenaphthene	83-32-9	E641A	0.05	mg/kg	<0.050	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	<0.050	----
Acridine	260-94-6	E641A	0.05	mg/kg	<0.050	----
Anthracene	120-12-7	E641A	0.05	mg/kg	<0.050	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	<0.050	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	<0.050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	<0.050	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	<0.050	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	<0.050	----
Chrysene	218-01-9	E641A	0.05	mg/kg	<0.050	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	<0.050	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	<0.050	----
Fluorene	86-73-7	E641A	0.05	mg/kg	<0.050	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	<0.050	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	<0.030	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	<0.030	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	<0.010	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	<0.050	----
Pyrene	129-00-0	E641A	0.05	mg/kg	<0.050	----
Quinoline	91-22-5	E641A	0.05	mg/kg	<0.050	----
Polycyclic Aromatic Hydrocarbons (QCLot: 976661)						
Acenaphthene	83-32-9	E641A	0.05	mg/kg	<0.050	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	<0.050	----
Acridine	260-94-6	E641A	0.05	mg/kg	<0.050	----
Anthracene	120-12-7	E641A	0.05	mg/kg	<0.050	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	<0.050	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	<0.050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	<0.050	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	<0.050	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	<0.050	----
Chrysene	218-01-9	E641A	0.05	mg/kg	<0.050	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	<0.050	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	<0.050	----
Fluorene	86-73-7	E641A	0.05	mg/kg	<0.050	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	<0.050	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 976661) - continued						
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	<0.030	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	<0.030	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	<0.010	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	<0.050	----
Pyrene	129-00-0	E641A	0.05	mg/kg	<0.050	----
Quinoline	91-22-5	E641A	0.05	mg/kg	<0.050	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 974345)									
Moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Physical Tests (QCLot: 974565)									
Moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Physical Tests (QCLot: 978142)									
Moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Metals (QCLot: 976267)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	96.5	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	105	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	103	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	98.0	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	99.3	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	96.4	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	100.0	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	97.8	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	99.4	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	98.4	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	98.5	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	96.2	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	99.5	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	97.5	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	97.2	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	101	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	101	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	101	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	95.9	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	104	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	101	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	99.5	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	92.9	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	100	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	104	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	99.5	80.0	120	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 976267) - continued									
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	97.0	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	99.2	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	95.6	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	92.3	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	101	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	96.9	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	98.2	80.0	120	----
Metals (QCLot: 976274)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	96.6	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	105	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	105	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	104	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	100	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	97.2	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	98.5	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	99.4	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	99.4	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	100	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	99.9	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	98.8	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	103	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	101	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	97.9	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	104	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	103	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	101	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	98.9	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	100	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	100	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	101	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	# 62.8	80.0	120	RRQC
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	100	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	104	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	102	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	102	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	100	80.0	120	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 976274) - continued									
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	97.4	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	101	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	103	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	98.4	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	96.9	80.0	120	----
Metals (QCLot: 976627)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	89.2	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	96.6	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	102	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	96.7	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	85.9	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	89.1	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	92.0	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	96.7	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	89.6	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	97.3	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	96.0	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	95.3	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	92.3	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	92.0	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	86.2	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	99.0	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	96.6	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	92.9	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	94.6	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	97.8	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	91.4	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	96.8	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	89.2	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	95.2	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	93.4	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	93.8	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	90.0	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	95.3	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	96.4	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	90.2	80.0	120	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Metals (QCLot: 976627) - continued									
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	97.8	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	94.1	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	94.0	80.0	120	----
Speciated Metals (QCLot: 1119166)									
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	96.7	80.0	120	----
Volatile Organic Compounds (QCLot: 972468)									
Benzene	71-43-2	E611A	0.005	mg/kg	2.5 mg/kg	118	70.0	130	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	2.5 mg/kg	105	70.0	130	----
Toluene	108-88-3	E611A	0.05	mg/kg	2.5 mg/kg	93.3	70.0	130	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	5 mg/kg	114	70.0	130	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	2.5 mg/kg	113	70.0	130	----
Volatile Organic Compounds (QCLot: 972498)									
Benzene	71-43-2	E611A	0.005	mg/kg	2.5 mg/kg	110	70.0	130	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	2.5 mg/kg	102	70.0	130	----
Toluene	108-88-3	E611A	0.05	mg/kg	2.5 mg/kg	91.0	70.0	130	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	5 mg/kg	107	70.0	130	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	2.5 mg/kg	109	70.0	130	----
Volatile Organic Compounds (QCLot: 975931)									
Benzene	71-43-2	E611A	0.005	mg/kg	2.5 mg/kg	113	70.0	130	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	2.5 mg/kg	106	70.0	130	----
Toluene	108-88-3	E611A	0.05	mg/kg	2.5 mg/kg	95.1	70.0	130	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	5 mg/kg	114	70.0	130	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	2.5 mg/kg	115	70.0	130	----
Hydrocarbons (QCLot: 972469)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	92.77 mg/kg	85.0	70.0	130	----
Hydrocarbons (QCLot: 972499)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	92.77 mg/kg	70.0	70.0	130	----
Hydrocarbons (QCLot: 972727)									
F2 (C10-C16)	----	E601.SG	25	mg/kg	638 mg/kg	109	70.0	130	----
F3 (C16-C34)	----	E601.SG	50	mg/kg	1270 mg/kg	95.6	70.0	130	----
F4 (C34-C50)	----	E601.SG	50	mg/kg	1094 mg/kg	95.8	70.0	130	----
Hydrocarbons (QCLot: 974600)									
F2 (C10-C16)	----	E601.SG	25	mg/kg	638 mg/kg	110	70.0	130	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Hydrocarbons (QCLot: 974600) - continued									
F3 (C16-C34)	----	E601.SG	50	mg/kg	1270 mg/kg	93.2	70.0	130	----
F4 (C34-C50)	----	E601.SG	50	mg/kg	1094 mg/kg	96.8	70.0	130	----
Hydrocarbons (QCLot: 975932)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	92.77 mg/kg	74.5	70.0	130	----
Hydrocarbons (QCLot: 978129)									
F2 (C10-C16)	----	E601.SG	25	mg/kg	638 mg/kg	114	70.0	130	----
F3 (C16-C34)	----	E601.SG	50	mg/kg	1270 mg/kg	99.6	70.0	130	----
F4 (C34-C50)	----	E601.SG	50	mg/kg	1094 mg/kg	99.5	70.0	130	----
Hydrocarbons (QCLot: 985344)									
F4G-sg	----	E601.F4G	500	mg/kg	1540 mg/kg	105	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 976266)									
Acenaphthene	83-32-9	E641A	0.05	mg/kg	0.5 mg/kg	94.1	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	0.5 mg/kg	95.5	60.0	130	----
Acridine	260-94-6	E641A	0.05	mg/kg	0.5 mg/kg	87.3	60.0	130	----
Anthracene	120-12-7	E641A	0.05	mg/kg	0.5 mg/kg	91.3	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	0.5 mg/kg	107	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	0.5 mg/kg	103	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	0.5 mg/kg	106	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	0.5 mg/kg	93.8	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	0.5 mg/kg	101	60.0	130	----
Chrysene	218-01-9	E641A	0.05	mg/kg	0.5 mg/kg	103	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	0.5 mg/kg	91.3	60.0	130	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	0.5 mg/kg	98.1	60.0	130	----
Fluorene	86-73-7	E641A	0.05	mg/kg	0.5 mg/kg	96.4	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	0.5 mg/kg	102	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	0.5 mg/kg	95.9	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	0.5 mg/kg	93.2	60.0	130	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	0.5 mg/kg	92.6	60.0	130	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	0.5 mg/kg	89.3	60.0	130	----
Pyrene	129-00-0	E641A	0.05	mg/kg	0.5 mg/kg	93.7	60.0	130	----
Quinoline	91-22-5	E641A	0.05	mg/kg	0.5 mg/kg	88.1	60.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 976283)									
Acenaphthene	83-32-9	E641A	0.05	mg/kg	0.5 mg/kg	95.8	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	0.5 mg/kg	94.8	60.0	130	----
Acridine	260-94-6	E641A	0.05	mg/kg	0.5 mg/kg	82.8	60.0	130	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report: Spike Concentration	Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 976283) - continued									
Anthracene	120-12-7	E641A	0.05	mg/kg	0.5 mg/kg	91.4	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	0.5 mg/kg	116	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	0.5 mg/kg	110	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	0.5 mg/kg	110	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	0.5 mg/kg	104	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	0.5 mg/kg	102	60.0	130	----
Chrysene	218-01-9	E641A	0.05	mg/kg	0.5 mg/kg	117	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	0.5 mg/kg	94.5	60.0	130	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	0.5 mg/kg	97.4	60.0	130	----
Fluorene	86-73-7	E641A	0.05	mg/kg	0.5 mg/kg	96.5	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	0.5 mg/kg	111	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	0.5 mg/kg	97.4	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	0.5 mg/kg	93.9	60.0	130	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	0.5 mg/kg	95.0	60.0	130	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	0.5 mg/kg	90.1	60.0	130	----
Pyrene	129-00-0	E641A	0.05	mg/kg	0.5 mg/kg	92.6	60.0	130	----
Quinoline	91-22-5	E641A	0.05	mg/kg	0.5 mg/kg	88.7	60.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 976661)									
Acenaphthene	83-32-9	E641A	0.05	mg/kg	0.5 mg/kg	88.8	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	0.5 mg/kg	89.6	60.0	130	----
Acridine	260-94-6	E641A	0.05	mg/kg	0.5 mg/kg	86.3	60.0	130	----
Anthracene	120-12-7	E641A	0.05	mg/kg	0.5 mg/kg	93.7	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	0.5 mg/kg	95.4	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	0.5 mg/kg	85.4	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	0.5 mg/kg	92.6	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	0.5 mg/kg	74.9	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	0.5 mg/kg	81.9	60.0	130	----
Chrysene	218-01-9	E641A	0.05	mg/kg	0.5 mg/kg	84.4	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	0.5 mg/kg	87.7	60.0	130	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	0.5 mg/kg	92.1	60.0	130	----
Fluorene	86-73-7	E641A	0.05	mg/kg	0.5 mg/kg	90.8	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	0.5 mg/kg	95.8	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	0.5 mg/kg	82.8	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	0.5 mg/kg	80.4	60.0	130	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	0.5 mg/kg	78.1	60.0	130	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	0.5 mg/kg	87.6	60.0	130	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
					Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 976661) - continued									
Pyrene	129-00-0	E641A	0.05	mg/kg	0.5 mg/kg	89.0	60.0	130	----
Quinoline	91-22-5	E641A	0.05	mg/kg	0.5 mg/kg	85.5	60.0	130	----

Qualifiers

Qualifier	Description
RRQC	*Refer to report comments for information regarding this QC result.*

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 972498)										
WP2310536-018	BH-23-12-02	Benzene	71-43-2	E611A	2.15 mg/kg	3.125 mg/kg	108	60.0	140	----
		Ethylbenzene	100-41-4	E611A	1.82 mg/kg	3.125 mg/kg	91.4	60.0	140	----
		Toluene	108-88-3	E611A	1.57 mg/kg	3.125 mg/kg	79.2	60.0	140	----
		Xylene, m+p-	179601-23-1	E611A	3.98 mg/kg	6.25 mg/kg	100	60.0	140	----
		Xylene, o-	95-47-6	E611A	1.98 mg/kg	3.125 mg/kg	99.4	60.0	140	----
Hydrocarbons (QCLot: 972469)										
WP2310380-001	Anonymous	F1 (C6-C10)	----	E581.F1		----		60.0	140	----
Hydrocarbons (QCLot: 972499)										
WP2310536-018	BH-23-12-02	F1 (C6-C10)	----	E581.F1	87.2 mg/kg	185.55 mg/kg	74.0	60.0	140	----
Hydrocarbons (QCLot: 972727)										
WP2310536-002	BH-23-03-06	F2 (C10-C16)	----	E601.SG	542 mg/kg	638 mg/kg	112	60.0	140	----
		F3 (C16-C34)	----	E601.SG	920 mg/kg	1270 mg/kg	95.8	60.0	140	----
		F4 (C34-C50)	----	E601.SG	762 mg/kg	1094 mg/kg	92.2	60.0	140	----
Hydrocarbons (QCLot: 974600)										
WP2310536-021	DUP-02	F2 (C10-C16)	----	E601.SG	583 mg/kg	638 mg/kg	116	60.0	140	----
		F3 (C16-C34)	----	E601.SG	1000 mg/kg	1270 mg/kg	100	60.0	140	----
		F4 (C34-C50)	----	E601.SG	869 mg/kg	1094 mg/kg	100	60.0	140	----
Hydrocarbons (QCLot: 978129)										
WP2310929-003	Anonymous	F2 (C10-C16)	----	E601.SG	535 mg/kg	638 mg/kg	108	60.0	140	----
		F3 (C16-C34)	----	E601.SG	924 mg/kg	1270 mg/kg	94.1	60.0	140	----
		F4 (C34-C50)	----	E601.SG	778 mg/kg	1094 mg/kg	91.9	60.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 976266)										
WP2310536-001	BH-23-03-02	Acenaphthene	83-32-9	E641A	0.401 mg/kg	0.5 mg/kg	92.2	50.0	140	----
		Acenaphthylene	208-96-8	E641A	0.415 mg/kg	0.5 mg/kg	95.5	50.0	140	----
		Acridine	260-94-6	E641A	0.454 mg/kg	0.5 mg/kg	104	50.0	140	----
		Anthracene	120-12-7	E641A	0.476 mg/kg	0.5 mg/kg	109	50.0	140	----
		Benz(a)anthracene	56-55-3	E641A	0.424 mg/kg	0.5 mg/kg	97.7	50.0	140	----
		Benzo(a)pyrene	50-32-8	E641A	0.439 mg/kg	0.5 mg/kg	101	50.0	140	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.372 mg/kg	0.5 mg/kg	85.6	50.0	140	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.390 mg/kg	0.5 mg/kg	89.8	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 976266) - continued										
WP2310536-001	BH-23-03-02	Benzo(k)fluoranthene	207-08-9	E641A	0.430 mg/kg	0.5 mg/kg	98.9	50.0	140	----
		Chrysene	218-01-9	E641A	0.387 mg/kg	0.5 mg/kg	89.1	50.0	140	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.394 mg/kg	0.5 mg/kg	90.7	50.0	140	----
		Fluoranthene	206-44-0	E641A	0.421 mg/kg	0.5 mg/kg	96.8	50.0	140	----
		Fluorene	86-73-7	E641A	0.428 mg/kg	0.5 mg/kg	98.5	50.0	140	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.399 mg/kg	0.5 mg/kg	91.8	50.0	140	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.405 mg/kg	0.5 mg/kg	93.3	50.0	140	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.401 mg/kg	0.5 mg/kg	92.3	50.0	140	----
		Naphthalene	91-20-3	E641A	0.403 mg/kg	0.5 mg/kg	92.8	50.0	140	----
		Phenanthrene	85-01-8	E641A	0.426 mg/kg	0.5 mg/kg	98.0	50.0	140	----
		Pyrene	129-00-0	E641A	0.410 mg/kg	0.5 mg/kg	94.4	50.0	140	----
		Quinoline	91-22-5	E641A	0.411 mg/kg	0.5 mg/kg	94.6	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 976283)										
WP2310536-021	DUP-02	Acenaphthene	83-32-9	E641A	0.377 mg/kg	0.5 mg/kg	98.5	50.0	140	----
		Acenaphthylene	208-96-8	E641A	0.375 mg/kg	0.5 mg/kg	98.0	50.0	140	----
		Acridine	260-94-6	E641A	0.306 mg/kg	0.5 mg/kg	79.9	50.0	140	----
		Anthracene	120-12-7	E641A	0.346 mg/kg	0.5 mg/kg	90.3	50.0	140	----
		Benz(a)anthracene	56-55-3	E641A	0.421 mg/kg	0.5 mg/kg	110	50.0	140	----
		Benzo(a)pyrene	50-32-8	E641A	0.426 mg/kg	0.5 mg/kg	111	50.0	140	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.408 mg/kg	0.5 mg/kg	106	50.0	140	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.395 mg/kg	0.5 mg/kg	103	50.0	140	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.386 mg/kg	0.5 mg/kg	101	50.0	140	----
		Chrysene	218-01-9	E641A	0.438 mg/kg	0.5 mg/kg	114	50.0	140	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.375 mg/kg	0.5 mg/kg	97.9	50.0	140	----
		Fluoranthene	206-44-0	E641A	0.382 mg/kg	0.5 mg/kg	99.8	50.0	140	----
		Fluorene	86-73-7	E641A	0.380 mg/kg	0.5 mg/kg	99.1	50.0	140	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.411 mg/kg	0.5 mg/kg	107	50.0	140	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.390 mg/kg	0.5 mg/kg	102	50.0	140	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.380 mg/kg	0.5 mg/kg	99.3	50.0	140	----
		Naphthalene	91-20-3	E641A	0.379 mg/kg	0.5 mg/kg	99.0	50.0	140	----
		Phenanthrene	85-01-8	E641A	0.350 mg/kg	0.5 mg/kg	91.4	50.0	140	----
		Pyrene	129-00-0	E641A	0.360 mg/kg	0.5 mg/kg	93.8	50.0	140	----
		Quinoline	91-22-5	E641A	0.343 mg/kg	0.5 mg/kg	89.6	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 976661)										
WT2315940-001	Anonymous	Acenaphthene	83-32-9	E641A	0.365 mg/kg	0.5 mg/kg	92.7	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 976661) - continued										
WT2315940-001	Anonymous	Acenaphthylene	208-96-8	E641A	0.369 mg/kg	0.5 mg/kg	93.8	50.0	140	----
		Acridine	260-94-6	E641A	0.359 mg/kg	0.5 mg/kg	91.1	50.0	140	----
		Anthracene	120-12-7	E641A	0.394 mg/kg	0.5 mg/kg	100	50.0	140	----
		Benz(a)anthracene	56-55-3	E641A	0.378 mg/kg	0.5 mg/kg	95.9	50.0	140	----
		Benzo(a)pyrene	50-32-8	E641A	0.345 mg/kg	0.5 mg/kg	87.7	50.0	140	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.329 mg/kg	0.5 mg/kg	83.6	50.0	140	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.301 mg/kg	0.5 mg/kg	76.4	50.0	140	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.355 mg/kg	0.5 mg/kg	90.2	50.0	140	----
		Chrysene	218-01-9	E641A	0.334 mg/kg	0.5 mg/kg	84.8	50.0	140	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.341 mg/kg	0.5 mg/kg	86.6	50.0	140	----
		Fluoranthene	206-44-0	E641A	0.359 mg/kg	0.5 mg/kg	91.1	50.0	140	----
		Fluorene	86-73-7	E641A	0.368 mg/kg	0.5 mg/kg	93.5	50.0	140	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.380 mg/kg	0.5 mg/kg	96.4	50.0	140	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.359 mg/kg	0.5 mg/kg	91.2	50.0	140	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.357 mg/kg	0.5 mg/kg	90.6	50.0	140	----
		Naphthalene	91-20-3	E641A	0.364 mg/kg	0.5 mg/kg	92.5	50.0	140	----
		Phenanthrene	85-01-8	E641A	0.374 mg/kg	0.5 mg/kg	94.8	50.0	140	----
		Pyrene	129-00-0	E641A	0.352 mg/kg	0.5 mg/kg	89.3	50.0	140	----
		Quinoline	91-22-5	E641A	0.350 mg/kg	0.5 mg/kg	88.9	50.0	140	----

Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

					Reference Material (RM) Report				
					RM Target Concentration	Recovery (%) RM	Recovery Limits (%) Low	Recovery Limits (%) High	
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method					Qualifier
Metals (QCLot: 976267)									
	RM	Aluminum	7429-90-5	E440	9817 mg/kg	103	70.0	130	----
	RM	Antimony	7440-36-0	E440	3.99 mg/kg	108	70.0	130	----
	RM	Arsenic	7440-38-2	E440	3.73 mg/kg	105	70.0	130	----
	RM	Barium	7440-39-3	E440	105 mg/kg	116	70.0	130	----
	RM	Beryllium	7440-41-7	E440	0.349 mg/kg	114	70.0	130	----
	RM	Boron	7440-42-8	E440	8.5 mg/kg	122	70.0	130	----
	RM	Cadmium	7440-43-9	E440	0.91 mg/kg	103	70.0	130	----
	RM	Calcium	7440-70-2	E440	31082 mg/kg	116	70.0	130	----
	RM	Chromium	7440-47-3	E440	101 mg/kg	104	70.0	130	----
	RM	Cobalt	7440-48-4	E440	6.9 mg/kg	106	70.0	130	----
	RM	Copper	7440-50-8	E440	123 mg/kg	110	70.0	130	----
	RM	Iron	7439-89-6	E440	23558 mg/kg	108	70.0	130	----
	RM	Lead	7439-92-1	E440	267 mg/kg	113	70.0	130	----
	RM	Lithium	7439-93-2	E440	9.5 mg/kg	109	70.0	130	----
	RM	Magnesium	7439-95-4	E440	5509 mg/kg	111	70.0	130	----
	RM	Manganese	7439-96-5	E440	269 mg/kg	108	70.0	130	----
	RM	Molybdenum	7439-98-7	E440	1.03 mg/kg	114	70.0	130	----
	RM	Nickel	7440-02-0	E440	26.7 mg/kg	106	70.0	130	----
	RM	Phosphorus	7723-14-0	E440	752 mg/kg	101	70.0	130	----
	RM	Potassium	7440-09-7	E440	1587 mg/kg	107	70.0	130	----
	RM	Silver	7440-22-4	E440	4.06 mg/kg	125	70.0	130	----
	RM	Sodium	7440-23-5	E440	797 mg/kg	107	70.0	130	----
	RM	Strontium	7440-24-6	E440	86.1 mg/kg	115	70.0	130	----
	RM	Thallium	7440-28-0	E440	0.0786 mg/kg	116	70.0	130	----
	RM	Tin	7440-31-5	E440	10.6 mg/kg	111	70.0	130	----
	RM	Titanium	7440-32-6	E440	839 mg/kg	104	70.0	130	----
	RM	Uranium	7440-61-1	E440	0.52 mg/kg	102	70.0	130	----

Sub-Matrix:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Metals (QCLot: 976267) - continued									
	RM	Vanadium	7440-62-2	E440	32.7 mg/kg	106	70.0	130	----
	RM	Zinc	7440-66-6	E440	297 mg/kg	104	70.0	130	----
	RM	Zirconium	7440-67-7	E440	5.73 mg/kg	124	70.0	130	----
Metals (QCLot: 976274)									
	RM	Aluminum	7429-90-5	E440	9817 mg/kg	94.8	70.0	130	----
	RM	Antimony	7440-36-0	E440	3.99 mg/kg	96.0	70.0	130	----
	RM	Arsenic	7440-38-2	E440	3.73 mg/kg	97.9	70.0	130	----
	RM	Barium	7440-39-3	E440	105 mg/kg	102	70.0	130	----
	RM	Beryllium	7440-41-7	E440	0.349 mg/kg	104	70.0	130	----
	RM	Boron	7440-42-8	E440	8.5 mg/kg	103	70.0	130	----
	RM	Cadmium	7440-43-9	E440	0.91 mg/kg	125	70.0	130	----
	RM	Calcium	7440-70-2	E440	31082 mg/kg	96.6	70.0	130	----
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	RM	Cobalt	7440-48-4	E440	6.9 mg/kg	99.4	70.0	130	----
	RM	Copper	7440-50-8	E440	123 mg/kg	98.9	70.0	130	----
	RM	Iron	7439-89-6	E440	23558 mg/kg	98.0	70.0	130	----
	RM	Lead	7439-92-1	E440	267 mg/kg	104	70.0	130	----
	RM	Lithium	7439-93-2	E440	9.5 mg/kg	98.9	70.0	130	----
	RM	Magnesium	7439-95-4	E440	5509 mg/kg	98.2	70.0	130	----
	RM	Manganese	7439-96-5	E440	269 mg/kg	98.2	70.0	130	----
	RM	Molybdenum	7439-98-7	E440	1.03 mg/kg	108	70.0	130	----
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	RM	Phosphorus	7723-14-0	E440	752 mg/kg	99.3	70.0	130	----
	RM	Potassium	7440-09-7	E440	1587 mg/kg	99.5	70.0	130	----
	RM	Silver	7440-22-4	E440	4.06 mg/kg	84.4	70.0	130	----
	RM	Sodium	7440-23-5	E440	797 mg/kg	109	70.0	130	----
	RM	Strontium	7440-24-6	E440	86.1 mg/kg	99.8	70.0	130	----
	RM	Thallium	7440-28-0	E440	0.0786 mg/kg	102	70.0	130	----
	RM	Tin	7440-31-5	E440	10.6 mg/kg	98.0	70.0	130	----
	RM	Titanium	7440-32-6	E440	839 mg/kg	92.0	70.0	130	----
	RM	Uranium	7440-61-1	E440	0.52 mg/kg	92.0	70.0	130	----

Sub-Matrix:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Metals (QCLot: 976274) - continued									
	RM	Vanadium	7440-62-2	E440	32.7 mg/kg	96.7	70.0	130	----
	RM	Zinc	7440-66-6	E440	297 mg/kg	97.9	70.0	130	----
	RM	Zirconium	7440-67-7	E440	5.73 mg/kg	102	70.0	130	----
Metals (QCLot: 976627)									
	RM	Aluminum	7429-90-5	E440	9817 mg/kg	97.2	70.0	130	----
	RM	Antimony	7440-36-0	E440	3.99 mg/kg	88.1	70.0	130	----
	RM	Arsenic	7440-38-2	E440	3.73 mg/kg	97.7	70.0	130	----
	RM	Barium	7440-39-3	E440	105 mg/kg	99.4	70.0	130	----
	RM	Beryllium	7440-41-7	E440	0.349 mg/kg	90.4	70.0	130	----
	RM	Boron	7440-42-8	E440	8.5 mg/kg	101	70.0	130	----
	RM	Cadmium	7440-43-9	E440	0.91 mg/kg	92.8	70.0	130	----
	RM	Calcium	7440-70-2	E440	31082 mg/kg	91.0	70.0	130	----
	RM	Chromium	7440-47-3	E440	101 mg/kg	98.8	70.0	130	----
	RM	Cobalt	7440-48-4	E440	6.9 mg/kg	96.7	70.0	130	----
	RM	Copper	7440-50-8	E440	123 mg/kg	96.8	70.0	130	----
	RM	Iron	7439-89-6	E440	23558 mg/kg	98.4	70.0	130	----
	RM	Lead	7439-92-1	E440	267 mg/kg	91.8	70.0	130	----
	RM	Lithium	7439-93-2	E440	9.5 mg/kg	88.0	70.0	130	----
	RM	Magnesium	7439-95-4	E440	5509 mg/kg	102	70.0	130	----
	RM	Manganese	7439-96-5	E440	269 mg/kg	97.9	70.0	130	----
	RM	Molybdenum	7439-98-7	E440	1.03 mg/kg	87.4	70.0	130	----
	RM	Nickel	7440-02-0	E440	26.7 mg/kg	96.2	70.0	130	----
	RM	Phosphorus	7723-14-0	E440	752 mg/kg	94.8	70.0	130	----
	RM	Potassium	7440-09-7	E440	1587 mg/kg	95.3	70.0	130	----
	RM	Silver	7440-22-4	E440	4.06 mg/kg	119	70.0	130	----
	RM	Sodium	7440-23-5	E440	797 mg/kg	97.0	70.0	130	----
	RM	Strontium	7440-24-6	E440	86.1 mg/kg	88.4	70.0	130	----
	RM	Thallium	7440-28-0	E440	0.0786 mg/kg	87.9	70.0	130	----
	RM	Tin	7440-31-5	E440	10.6 mg/kg	89.0	70.0	130	----
	RM	Titanium	7440-32-6	E440	839 mg/kg	96.3	70.0	130	----
	RM	Uranium	7440-61-1	E440	0.52 mg/kg	88.5	70.0	130	----

Sub-Matrix:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Metals (QCLot: 976627) - continued									
	RM	Vanadium	7440-62-2	E440	32.7 mg/kg	96.9	70.0	130	----
	RM	Zinc	7440-66-6	E440	297 mg/kg	93.1	70.0	130	----
	RM	Zirconium	7440-67-7	E440	5.73 mg/kg	95.3	70.0	130	----
Speciated Metals (QCLot: 1119166)									
	RM	Chromium, hexavalent [Cr VI]	18540-29-9	E532	172 mg/kg	88.2	70.0	130	----

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page 1 of 5

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

Report To	Contact and company name below will appear on the final report
Company:	AECOM
Contact:	Jen Murray
Phone:	204-803-9508
	Company address below will appear on the final report
Street:	99 Commerce Drive
City/Province:	Winnipeg, Manitoba
Postal Code:	R3P 0Y7
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	AECOM Canada Ltd.
Contact:	Accounts Payable

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☑ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Jen.Murray@aecom.com

Email 2: Manny.Papadimitropoulos@aecom.com

Email 3: Jonathan.Ota @aecom.com

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: CANSSC.E-billing@aecom.com

Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

☐ 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum

☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm am/pm

For all tests with rush TATs requested, please contact your AM to confirm availability.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Project Information

ALS Account # / Quote #:

Job #: 60660698

PO / AFE:

LSD:

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#:

Major/Minor Code: Routing Code:

Requisitioner:

Location:

ALS Lab Work Order # (ALS use only):

ALS Contact: Sampler: MP

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	F1-F4	PAH's	~~PCBs~~ metals	ES ON HOLD	D STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
1	BH 23-03-02	30-May-23		Soil	4	✓	✓	✓	✓			
2	BH 23-03-06	"		Soil	4	✓	✓	✓	✓			
3	BH 23-03-11	"		Soil	4	✓	✓	✓	✓			
5	BH 23-04-02	"		Soil	4	✓	✓	✓	✓			
6	BH 23-04-04	"		Soil	4	✓	✓	✓	✓			
7	BH 23-04-06	"		Soil	4	✓	✓	✓	✓			
8	BH 23-04-10	"		Soil	4	✓	✓	✓	✓			
9	BH 23-13-02	"		Soil	4	✓	✓	✓	✓			
10	BH 23-13-05	"		Soil	4	✓	✓	✓	✓			
11	BH 23-13-08	"		Soil	4	✓	✓	✓	✓			
				Soil								
				Soil								

Environmental Division Winnipeg
Work Order Reference
WP2310536

Telephone : + 1 204 255 9720

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System?

☐ YES ☑ NO

Are samples for human consumption/ use?

☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method: ☐ NONE ☐ ICE ☐ ICE PACKS ☐ FROZEN ☐ COOLING INITIATED

Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
2.2					

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date: JUN 0 2 2023	Time: 11:05

FINAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

AUG 2020 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

N/B Some of the samples have 4 Containers, please can sum ~~for~~ PAH for those samples.

Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page 2 of 5

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Canada Toll Free: 1 800 668 9878

Report To	Contact and company name below will appear on the final report
Company:	AECOM
Contact:	Jen Murray
Phone:	204-803-9508
	Company address below will appear on the final report
Street:	99 Commerce Drive
City/Province:	Winnipeg, Manitoba
Postal Code:	R3P 0Y7
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	AECOM Canada Ltd.
Contact:	Accounts Payable

Reports / Recipients

Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)

Merge QC/QCI Reports with COA ☑ YES ☐ NO ☐ N/A

☐ Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: Jen.Murray@aecom.com

Email 2: Manny.Papadimitropoulos@aecom.com

Email 3: Jonathan.Ota @aecom.com

Invoice Recipients

Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX

Email 1 or Fax: CANSSC.E-billing@aecom.com

Email 2:

Turnaround Time (TAT) Requested

☑ Routine [R] if received by 3pm M-F - no surcharges apply

☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum

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☐ 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

☐ Same day [E2] if received by 10am M-S - 200% rush surcharge.

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm (24hr)

For all tests with rush TATs requested, please contact your AM to confirm availability.

AFFIX ALS BARCODE LABEL HERE (ALS use only)

Project Information	
ALS Account # / Quote #:	
Job #:	60660698
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (ALS use only):

ALS Contact:

Sampler: MP

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	F1-F4	PAH's	PCBs Metals	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
12	Dup -01	30-May-23		Soil	4	✓	✓	✓	✓			
13	BH23-01-03	"		Soil	4	✓	✓	✓	✓			
14	BH23-01-06	"		Soil	4	✓	✓	✓	✓			
15	BH23-01-10	"		Soil	4	✓	✓	✓	✓			
16	BH23-02-02	31-May-23		Soil	4	✓	✓	✓	✓			
17	BH23-02-10	"		Soil	4	✓	✓	✓	✓			
18	BH23-02-06	"		Soil	5	✓	✓	✓	✓			
19	BH23-12-02	"		Soil	5	✓	✓	✓	✓			
20	BH23-12-06	"		Soil	5	✓	✓	✓	✓			
21	BH23-12-10	"		Soil	5	✓	✓	✓	✓			
22	Dup-02	"		Soil	5	✓	✓	✓	✓			
				Soil								

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System?

☐ YES ☑ NO

Are samples for human consumption/ use?

☐ YES ☑ NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

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Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

INITIAL COOLER TEMPERATURES °C				FINAL COOLER TEMPERATURES °C			

SHIPMENT RELEASE (client use)		
Released by:	Date:	Time:

INITIAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date: JUN 0 2 2023	Time: 11:05

FINAL SHIPMENT RECEPTION (ALS use only)		
Received by:	Date:	Time:

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Chain of Custody (COC) / Analytical Request Form

COC Number: 20 -

Page 3 of 5

Canada Toll Free: 1 800 668 9878

www.alsglobal.com

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Contact:	Jen Murray
Phone:	204-803-9508
	Company address below will appear on the final report
Street:	99 Commerce Drive
City/Province:	Winnipeg, Manitoba
Postal Code:	R3P 0Y7
Invoice To	Same as Report To ☐ YES ☑ NO
	Copy of Invoice with Report ☐ YES ☑ NO
Company:	AECOM Canada Ltd.
Contact:	Accounts Payable

Reports / Recipients	
Select Report Format:	☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)
Merge QC/QCI Reports with COA	☑ YES ☐ NO ☐ N/A
☐ Compare Results to Criteria on Report - provide details below if box checked	
Select Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	Jen.Murray@aecom.com
Email 2	Manny.Papadimitropoulos@aecom.com
Email 3	Jonathan.Ota @aecom.com

Invoice Recipients	
Select Invoice Distribution:	☑ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax	CANSSC.E-billing@aecom.com
Email 2	

Turnaround Time (TAT) Requested
☑ Routine [R] if received by 3pm M-F - no surcharges apply
☐ 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum
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☐ 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum
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AFFIX ALS BARCODE LABEL HERE (ALS use only)

Additional fees may apply to rush requests on weekends, statutory holidays and for non-routine tests.

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm hr/min

For all tests with rush TATs requested, please contact your AM to confirm availability.

Project Information	
ALS Account # / Quote #:	
Job #:	60660698
PO / AFE:	
LSD:	

Oil and Gas Required Fields (client use)	
AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	

ALS Lab Work Order # (ALS use only):

ALS Contact:

Sampler: MP

Analysis Request

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ALS Sample # (ALS use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX	F1-F4	PAH's	RCAs Metals	SAMPLES ON HOLD	EXTENDED STORAGE REQUIRED	SUSPECTED HAZARD (see notes)
23	BH 23-10-02	31-May-23		Soil	5	✓	✓	✓	✓			
4	BH 23-10-04	"		Soil	5	✓	✓	✓	✓			
5	BH 23-10-09	"		Soil	5	✓	✓	✓	✓			
6	BH 23-11-03	"		Soil	5	✓	✓	✓	✓			
7	BH 23-11-06	"		Soil	5	✓	✓	✓	✓			
8	BH 23-11-11	"		Soil	5	✓	✓	✓	✓			
9	BH 23-08-03	01-Jun-23		Soil	5	✓	✓	✓	✓			
30	BH 23-08-06	"		Soil	5	✓	✓	✓	✓			
1	BH 23-08-10	"		Soil	5	✓	✓	✓	✓			
2	Dup-03	"		Soil	5	✓	✓	✓	✓			
				Soil								
				Soil								

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SAMPLE RECEIPT DETAILS (ALS use only)

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Submission Comments identified on Sample Receipt Notification: ☐ YES ☐ NO

Cooler Custody Seals Intact: ☐ YES ☐ N/A Sample Custody Seals Intact: ☐ YES ☐ N/A

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4	BH23-05-06	"		Soil	5	✓	✓	✓	✓			
5	BH23-05-10	"		Soil	5	✓	✓	✓	✓			
6	BH23-06-02	"		Soil	5	✓	✓	✓	✓			
7	BH23-06-05	"		Soil	5	✓	✓	✓	✓			
8	BH23-06-09	"		Soil	5	✓	✓	✓	✓			
9	BH23-07-03	"		Soil	5	✓	✓	✓	✓			
40	BH23-07-06	"		Soil	5	✓	✓	✓	✓			
1	BH23-07-11	"		Soil	5	✓	✓	✓	✓			
2	Dup-04	"		Soil	5	✓	✓	✓	✓			
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PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (ALS use only):		ALS Contact:	Sampler: MP

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44	BH23-09-06	"		Soil	5	✓	✓	✓	✓			
45	BH23-09-09	"		Soil	5	✓	✓	✓	✓			
				Soil								
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Phase II Environmental Site Assessment

NEWPCC Upgrade – Parcel C: Biosolids Facilities, 2230 Main Street, Winnipeg, Manitoba

Prepared by:
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Date: April 2024
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Quality information

Prepared by	Checked by	Approved by
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PROVINCE OF MANITOBA
K.B.P. OSIOWY
Apr. 2/24
REGISTERED PROFESSIONAL ENGINEER

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date: April 2, 2024

Revision History

Revision	Revision date	Name	Details
1	April 2, 2024	Jonathan Ota	Final Report

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1. Introduction

The City of Winnipeg retained AECOM Canada Ltd. (AECOM) to complete a Phase II Environmental Site Assessment (ESA) at the North End Water Pollution Control Centre (NEWPCC) in support of the NEWPCC Biosolids Early Works Land Drainage System (LDS) Project. The Site investigation took place in Parcel C at 2823 Ferrier Street, in Winnipeg, Manitoba (MB) (hereafter referred to as the "Site").

The location and layout of the Site are shown in Figure 1. Selected Site photographs, borehole logs and certificates of laboratory analysis, are presented in Appendices A through C, respectively. The Phase II ESA was conducted on January 16, 2024.

1.1 Objectives

Previous ESAs completed on Parcel A and Parcel B of the NEWPCC facility at 2230 Main Street identified concentrations of metals, petroleum hydrocarbons (PHC) and polycyclic aromatic hydrocarbons (PAH) in soil above applicable soil quality guidelines (AECOM, 2023, Figure 2).

The objective of this Phase II ESA was to assess whether PHC, PAH or metals impacts are present in soil in the area of the proposed retention pond and temporary trailers prior to construction and determine if previously identified soil impacts on Parcel B extend onto Parcel C in the vicinity of the proposed LDS alignment. Additionally, the objective of this investigation was to determine if the soil in the retention pond footprint is suitable to be used for backfill during the proposed remediation in Parcel B.

1.2 Location

The Site is located on Parcel C, with civic address 2823 Ferrier Street, situated between Murray Avenue and Ferrier Street and northwest of the developed NEWPCC facilities. The Site is zoned as A - Agricultural Land Use (City of Winnipeg, 2024). The Site Plan is shown on Figure 1.

Parcel C area is estimated to be about 500 m x 450 m and the area is vacant with no infrastructure on Site. The area of investigation includes the area of the proposed retention pond on the northeast portion of Parcel C, the proposed location of the temporary trailers on the southwestern portion of the Site and near the southern boundary north of previously identified impacts on Parcel B.

The nearest surface water body to the Site is the Red River located about 1.22 km east of the Site.

Murray Avenue is located north of Parcel C, and north of the road is a garage and agricultural fields. To the south is Parcel B (with telecommunication tower) and commercial/ industrial land. A CP rail line and residential properties are located adjacent to the east boundary of Parcel C, with Ferrier Street and industrial/ residential buildings to the west.

2. Scope of Work

The Phase II ESA was carried out in general accordance with the Canadian Standards Association (CSA) Standard *Z769-00, Phase II Environmental Site Assessment* (CSA 2018). The scope of work for the Phase II ESA included the following tasks:

- Completion of public utility locates, and one set of private utility locates.
- Advancement of six boreholes (BH24-01 to BH24-06) in the area of the proposed retention pond, two boreholes (BH24-07 and BH24-08) in the area of the proposed temporary trailers and two boreholes (BH24-09 and BH24-10) north of the impacted area previously identified in Parcel B and in the vicinity of the proposed LDS alignment.
- Collection of up to four soil samples from each borehole for laboratory analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX); PHC Fractions F1-F4; metals; and PAHs.

– Collection and analysis of one duplicate sample for every 10 samples analyzed.

The borehole locations are shown on the attached Figure 1.

3. Site Overview

3.1 Bedrock Geology

The Winnipeg area straddles the boundary between the Paleozoic and Precambrian outcrop areas. The bedrock geology of the Site consists of Winnipeg Formation sandstones and shales overlain by mottled dolomitic limestones of the Red River Formation, 150 – 175 m in thickness. The Red River Formation consists of the lower and upper Red River Strata (Manitoba Energy and Mines, 1990).

3.2 Site Stratigraphy

The general subsurface stratigraphy encountered during the Phase II ESA consisted of alternating layers of silt and clay to the maximum depth of the investigation of 6.1 m bgs.

3.3 Surface Water Bodies and Drainage

The nearest surface water body to the Site is the Red River located approximately 1.22 km east of the Site. Based on observations of the general topography, surface water drainage at the Site is likely to the southwest.

4. Environmental Quality Guidelines

4.1 Regulatory Framework

The Province of Manitoba currently references documents from the Canadian Council of Ministers of the Environment (CCME) and Ontario Ministry of the Environment (Ontario MOE) as Primary and Secondary standards under the *Contaminated Sites Remediation* (CSR) *Act*. The applicable soil quality guidelines (SQGs) are summarized below.

Primary standards:

- Canadian Environmental Quality Guidelines (CEQG), Canadian Council of Ministers of the Environment (CCME) (most recent online version).
- Canada-Wide Standards (CWS) for Petroleum Hydrocarbons (PHC) in Soil, CCME (CCME) (most recent online version).

Secondary standard:

- Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Ontario Ministry of the Environment, April 15, 2011.

A Tier II approach was undertaken for the Site in order to provide a more realistic assessment of human and environmental risks at the Site. The applicable site-specific factors at the Sites and the rationale for the use of CCME Tier II SQGs are described in the subsections below.

In the CCME guidance documents, surface soil extends from ground surface to 1.5 m bgs, and subsurface soil extends below 3.0 m bgs, with classification of soil between 1.5 m and 3.0 m bgs up to the discretion of the provincial regulator. Manitoba Environment and Climate Change (MECC) has defined surface soil as extending from surface to 1.5 m bgs, and subsoil including materials below 1.5 m bgs. These definitions have been applied in this document. Where appropriate, the ecological soil contact pathway has been removed from comparison with soil samples collected from depths greater than 1.5 m bgs.

As adopted by MECC, soil quality guidelines for benzene use a lifetime incremental cancer risk of 10^{-5} for human health exposure.

4.1.1 Land Use

The Site is located within the City of Winnipeg and zoned as A - Agricultural Land Use (City of Winnipeg, 2024) and agricultural land use EQGs were applied.

4.1.2 Grain Size

Soil grain size analysis was not conducted during this Phase II ESA, but clay and silt soil observed during the Phase II ESA was consistent with what was reported in previous site investigations conducted in Parcel A and B of the NEWPCC facility. During the previous Phase II/III ESA activities completed by AECOM in 2023, clay and silt units were observed beneath the Site to a depth of 10 m below grade and soil samples were submitted to the laboratory for grain size analysis. The results indicated that soil was generally fine-grained; therefore, the soil type governing the transport and fate of contaminants in the surface and subsurface is fine-grained.

4.1.3 Human Health and Ecological Exposure Pathways

The following subsections summarize applicable site-specific factors at the Site and the rationale for the use of EQGs for BTEX, PHC F1-F4, and PAHs.

5.1.3.1 Potable Groundwater

Potable water for the Site and surrounding area is provided by the City of Winnipeg via a piped municipal distribution system fed by Shoal Lake located approximately 145 km southeast of the city. A search of the Groundwater Information Network identified one well (Borehole Data Provider ID:116777) within 500 m of the Site and the well was classified as observation well (GIN, 2021). The well search did not identify any domestic or industrial water wells on the Site or within 500 m of the Site, however, the City indicated that the wastewater treatment plant in Parcel A uses well water for cooling processes. The potable groundwater pathway is not considered to be applicable to the Site.

5.1.3.2 Indoor Air Vapour Inhalation

The indoor vapour inhalation pathway is applicable to any site that has a building or where PHC contamination has the potential to be within 30 m of a building. The Site is currently vacant with development planned for the future. As such, the vapour inhalation pathway is considered an applicable pathway for the Site.

5.1.3.4 Freshwater Aquatic Life

The freshwater aquatic life pathway is considered applicable if contaminants of concern are located within 500 m of a surface water body (Federal Contaminated Sites Action Plan, 2016). The closest surface water body to the Site is the Red River, which is located approximately 1.22 km east of the Site. Also, given the presence of fine-grained clay and silt material at the Site and the distant to the Red River, which will make it highly unlikely that contaminants of concern will migrate 1.22 km and reach the Red River before being naturally attenuated.

5.1.3.5 Ecological Soil Contact

The ecological contact pathway is based on direct contact by plants and soil invertebrates. According to the CWS Technical Supplement Document, the soil contact exposure pathway may be eliminated for depths below 3 m with the provincial regulator to dictate how to address soils between 1.5 m and 3 m bgs (CCME 2008). According to MECC, surface soil is defined as soil at or above 1.5 m bgs with subsurface soil defined as soil below 1.5 m bgs, meaning the ecological soil contact exposure pathway may be eliminated below a depth of 1.5 m provided there are

other applicable exposure pathways. The ecological contact pathway is applicable to the Site up to a depth of 1.5 m bgs.

5.1.3.6 Irrigation/Livestock Watering

The irrigation or livestock watering pathway does not apply since the Site is located within the City of Winnipeg and is not used for agricultural purposes.

5. Field Program and Methodology

5.1 Subsurface Clearance

Prior to the subsurface drilling investigation, AECOM personnel obtained utility clearances from representatives of applicable utility companies and retained a separate private utility locator (Accurate Underground) on January 10, 2024 to locate all utilities in the areas of investigation at the Site. Accurate Underground provided the locating/marking of utility lines at the Site and provided a copy drawing to AECOM of all findings. An Underground Utilities & Subsurface Installation Clearance Checklist was completed by AECOM to confirm all pre-disturbance efforts were accomplished.

5.2 Borehole Drilling

The Phase II ESA consisted of advancing 10 boreholes (BH24-01 to BH24-10) on January 16, 2024, using a drill rig with solid stem augers operated by Paddock Drilling. Six boreholes (BH24-01 to BH24-06) were advanced in the area of the proposed retention pond, two boreholes (BH24-07 and BH24-08) in the area of the proposed temporary trailers and two boreholes (BH24-09 and BH24-10) north of the impacted area previously identified in Parcel B and in the vicinity of the proposed LDS alignment. In the proposed retention pond footprint, boreholes were advanced to depths of 6.1 m bgs and the remaining boreholes were advanced to 4.5 m bgs. The borehole locations are shown on Figure 1. Selected photographs of the drilling activities are included in Appendix A and Borehole logs are provided in Appendix B.

5.2.1 Soil Sampling and Logging

The following methods were applied to obtain, screen, and package soil for analytical testing.

- Soil samples were collected from the solid stem auger drilling rig at approximately 0.5 m intervals until 2 m, then at 1 m intervals to the end of the borehole, at stratigraphic boundaries, and at locations where potential chemical impacts were suspected and/or observed to a maximum depth of 6.1 m bgs.
- Collected soil samples were trimmed, using stainless steel sampling utensils, and sealed in individual plastic bags for field testing and potential laboratory analysis as outlined below:
- Soil samples for field testing were sealed in a bag with an equal amount of air. The sealed bags were agitated for several seconds and allowed to equilibrate temperature prior to field testing. Once the samples temperature equilibrates, the probe of an RKI Eagle was inserted through the side of the bag to sample the headspace over the soil and provide a relative indication of combustible headspace vapours (CHVs) present in the soil sample. The RKI Eagle was configured to exclude methane from its analysis. Field vapour measurements are provided on the borehole logs in Appendix B.
- Soil samples were selected for laboratory analysis based on CHV measurement results, soil stratigraphy, visual observations, and expected contaminant depth. Four soil samples were collected along the soil profile from each borehole in the proposed retention pond footprint to determine potential Parcel B excavation backfill suitability. Two samples were collected from each borehole for BH24-07 to BH24-10. The selected soil samples were placed into laboratory-supplied glass vials prefilled with methanol preservative using a dedicated TerraCore™ sampling device and laboratory-supplied glass sampling jars that were tightly sealed with a Teflon-lined lid, then placed in a cooler with ice to reduce temperature fluctuations prior to delivery. All samples were submitted to the ALS Laboratories in Winnipeg, for analysis of BTEX, PHC F1-F4, PAHs and metals.

To prevent cross-contamination, tools used to trim soil samples were cleaned between use and new nitrile gloves were used to collect each soil sample. The boreholes were logged in general accordance with ASTM D2466 of the USCS based on observations from the discrete sampling tubes containing soil cores obtained from each borehole, as well as the behaviour of the drill rig. The logging included visual classification of soils, as well as interpretation of subsurface moisture, groundwater conditions, discolouration, and odours. These observations are presented on the borehole logs in Appendix B.

AECOM used a handheld GPS to obtain the coordinates at each borehole location, which are shown on the borehole logs in Appendix B.

5.3 Quality Assurance and Quality Control Program

To confirm that the sampling and analytical data collected was interpretable, defensible, and comparable, a quality assurance (QA) / quality control (QC) program was implemented for the project. The QA/QC measures were taken during both the collection and analysis of samples.

Quality control measures used in the collection, preservation, shipment, and analysis of environmental samples included the following:

- Sampling techniques were performed in accordance with standard AECOM protocols.
- Rigorous field notes were taken during the investigation.
- All samples were kept cool prior to shipment to the laboratory.
- Samples were assigned unique sample control number and transported under chain of custody procedures.
- The analytical laboratory had proficiency certification issued by the Standards Council of Canada (SCC) for the specific analyses conducted.

QA measures established for the site assessment included collection of duplicate field samples at the rate of approximately 10%, with preferential analysis of duplicate sample pairs, where appropriate. A duplicate field sample consisted of a second sample collected from the same location as the primary sample and submitted to the analytical laboratory under a separate label.

The relative percent difference (RPD) between duplicate sample results was used to assess overall sampling precision. The RPD is a measure of the variability between two duplicate analyses and is calculated by the following equation:

$$RPD = 100 \times \frac{(x - y)}{(x + y)/2}$$

Where x is the primary result and y is the duplicate result.

The duplicate field results are considered acceptable if the RPD was less than the alert criteria, which is equivalent to twice the laboratory RPD QC limit. The alert criteria varies based on the analytical parameter and sample matrix, with the alert criteria for soil generally being 60% for PHC F1, 80% for PHC F2-F4, 60% or 80% for metals and 100% for BTEX and PAHs.

Due to the uncertainty of results near the laboratory reportable detection limit (RDL), an alternative check for QA was completed for duplicates where concentrations were also less than five times the laboratory RDL. This alternative check calculated the difference between the sample and duplicate results, with the results considered acceptable if the difference between the results was less than two times the RDL.

6. Results

Field measurements and observations as well as laboratory results are summarized in the following subsections.

6.1 Field Observations

6.1.1 Stratigraphy

The general subsurface stratigraphy encountered during the Phase II ESA consisted of alternating layers of silt and clay to the maximum depth of the investigation of 6.1 m bgs.

During this Phase II ESA investigation event, no staining or odour was noted in any of the boreholes.

A detailed description of the soil stratigraphy encountered during the field investigation is included in the borehole logs in Appendix B.

6.1.2 Combustible Vapour Measurements

Field CHV measurements conducted on the soil samples collected ranged from non-detect to 50 parts per million (ppm). The results of the field CHV analyses are summarized on the borehole logs in Appendix B.

6.2 Laboratory Analytical Results

Based on the field CHV measurements, soil stratigraphy or odour, a total of 35 soil samples including three field duplicate soil samples were selected and submitted for laboratory analysis of BTEX, PHC F1-F4, PAHs and metals. The results of the laboratory analyses for the soil samples are summarized in the following sections. Copies of the analytical reports are also included in Appendix C.

6.2.1 Petroleum Hydrocarbons

Based on the results of the laboratory analyses, all soil samples had concentrations of BTEX and PHC fractions F1-F4 below the laboratory reportable detection limits (RDL) and less than the applied SQGs.

The laboratory analytical results for PHCs are presented in Table 1.

6.2.2 Polycyclic Aromatic Hydrocarbons

Concentrations of all the analyzed PAH parameters were reported to be less than the applied SQGs and less than the laboratory RDLs.

The laboratory analytical results for PAHs are presented in Table 2.

6.2.3 Metals

Based on the results of the laboratory analyses, concentrations of all the analyzed metals parameters submitted for laboratory analyses were reported to be less than the applied SQGs.

The laboratory analytical results for metals are presented in Table 3.

6.3 Quality Assurance and Quality Control

6.3.1 Duplicate Analyses

6.3.1.1 Soil Duplicates

Three duplicate soil samples were collected from the 10 drilled boreholes and analyzed for the following parameters: BTEX, PHC F1-F4, and metals. The parent and duplicate samples are listed below:

- BH24-05-07 and duplicate DUP-01

- BH24-08-06 and duplicate DUP-02
- BH24-09-03 and duplicate DUP-03

Where calculable, the RPD values for the duplicate soil samples were within the acceptable primary alert and alternative alert criteria. RPD values could not be calculated for PHC and PAH parameters because the parent and duplicate results were below laboratory reportable detection limits. The RPD calculations for the field duplicate soil samples and the acceptable alert criteria are presented in Tables 4, 5 and 6.

7. Discussion

All soil samples analyzed from the ten boreholes advanced in Parcel C in January 2024 had concentrations of PHC, PAH and metals below soil quality guidelines. Additionally, it was determined that the soil from the proposed retention pond footprint is suitable for backfill for the proposed remediation in Parcel B and is within the remedial criteria for that site as outlined in the Parcel B Remedial Action Plan (AECOM, 2024).

In the previous Phase II and III ESAs completed by AECOM in 2023, PHC, PAH and/or metals impacts were reported in the boreholes located on Parcel B. The previous ESA investigations identified both chromium and PAH impacts on the northern portion of Parcel B. The impacts were delineated to the east, south and west but the horizontal extent towards the north (Parcel C) was unknown. Both the chromium impacts and PAH impacts in Parcel B were reported at approximately 1.5 m bgs with clean depths established at the next sample at approximately 3.0 m bgs. The impacts were not identified in any of the boreholes drilled in Parcel C. Figure 2 illustrates the previously reported soil impacts on Parcel B.

8. Conclusions

The Phase II ESA did not identify PHC, PAH and metals impacts in any of the soil samples collected at the Site (Parcel C). All soil results for the soil samples analyzed from the proposed retention pond footprint, proposed temporary trailers and southern portion of Parcel C were below SQGs. It appears that the soil impacts identified in Parcel B do not extend to Parcel C, however once remedial work has started in Parcel B, the northern extent of soil impacts in Parcel B will be confirmed.

Laboratory results indicate that the soil from the proposed retention pond footprint is suitable for backfill for the proposed remediation in Parcel B and is within the remedial criteria for that site as outlined in the Parcel B Remedial Action Plan (AECOM, 2024).

9. References

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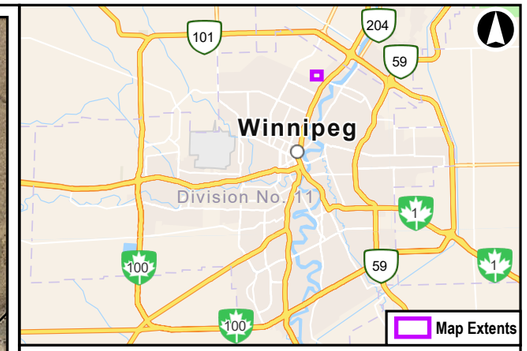
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Figures





Legend

- Borehole Location (AECOM 2024)
- Borehole Location (AECOM 2022)
- Borehole Location (AECOM 2023)
- Monitoring Well Location (AECOM 2022)
- Monitoring Well Location (SNC 2017/2018)
- Railway
- Existing Sewer Line
- Existing Underground Electrical

Site Features

- Proposed Facilities
- Proposed Detention Pond and Potential Backfill Source
- Parcel Boundary

Notes:

* MW17-03 Installed by SNC in 2017

PHASE II ENVIRONMENTAL SITE ASSESSMENT (PARCEL C)
NEWPCC UPGRADE: BIOSOLIDS FACILITIES
2230 MAIN STREET, WINNIPEG, MANITOBA

SITE PLAN

0 40 80 120 160
Meters

Datum: NAD 1983 UTM Zone 14N

Feb, 2024	PN#: 60660698	1:2,500 * when printed 11"x17"

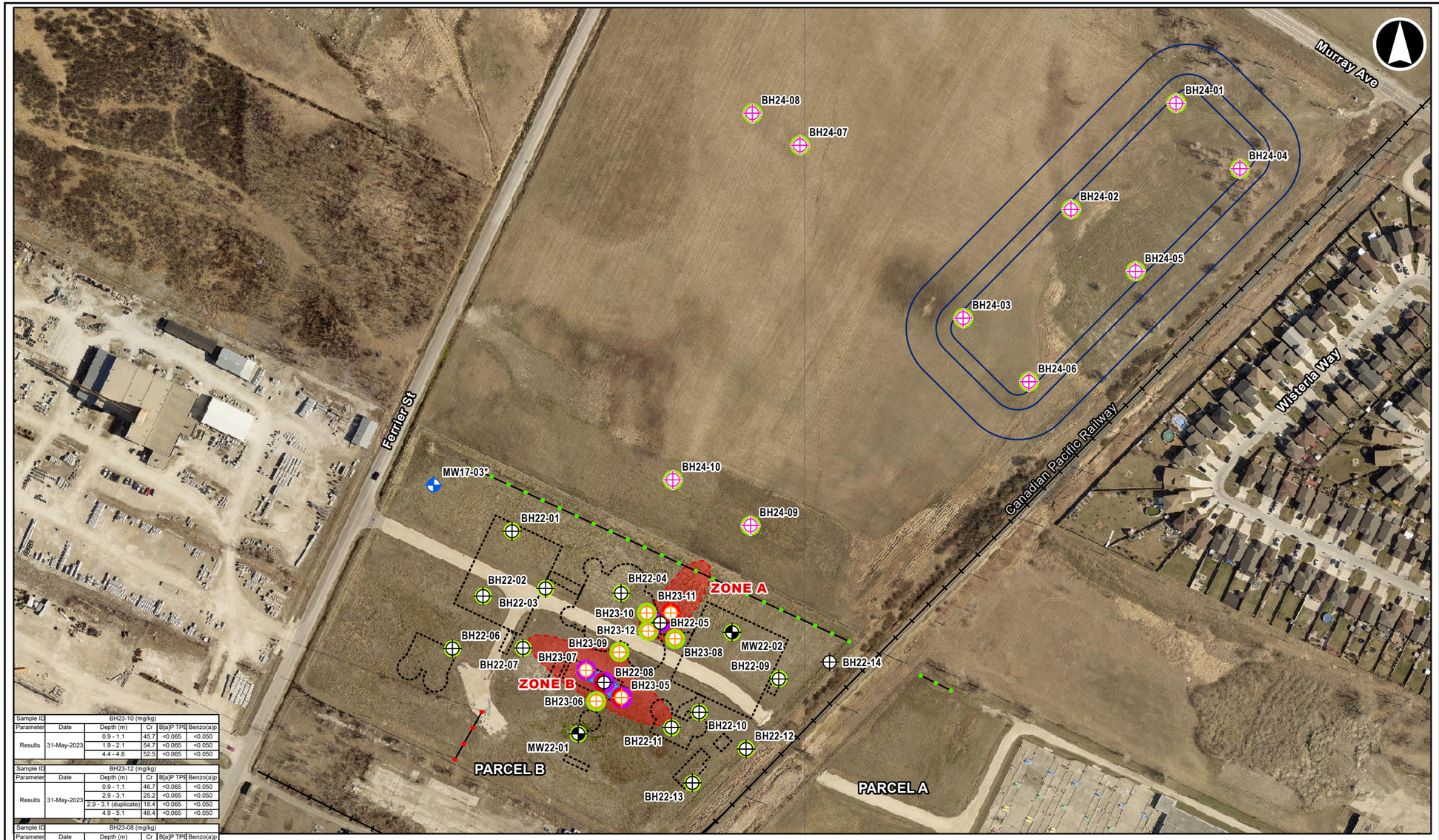
Figure 1

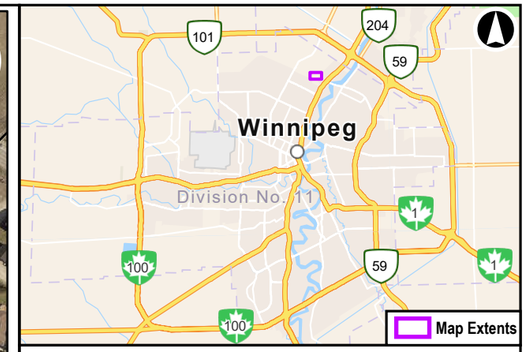
AECOM

Data Sources: NRCan - CanVec
Esri Canada, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Legend

- Borehole Location (AECOM 2024)
- Borehole Location (AECOM 2022)
- Borehole Location (AECOM 2023)
- Monitoring Well Location (AECOM 2022)
- Monitoring Well Location (SNC 2017/2018)
- Below Applicable Guideline
- Exceeds Applicable Hydrocarbon Guideline
- Exceeds Applicable Metals Guideline
- Railway
- Existing Sewer Line
- Existing Underground Electrical
- Proposed Facilities
- Proposed Detention Pond and Potential Backfill Source
- Low-Volume Estimate of Impacted Soil
- High-Volume Estimate of Impacted Soil

Notes:
* MW17-03 Installed by SNC in 2017

The low-volume estimate assumes impacts extend a distance of 5m from impacted boreholes and at a depth of 1.0 - 2.0 mbgs (impacts detected at 1.4-1.6 mbgs)

The high-volume estimate assumes impacts extend to nearest borehole below Environmental Quality Guidelines (EQGs) and at a depth of 1.0-2.9 mbgs (nearest depth with concentrations below EQGs in the impacted boreholes)

Sample ID	BH23-10 (mg/kg)				
Parameter	Date	Depth (m)	Cr	B[a]P TPE	Benzo(a)p
Results	31-May-2023	0.9 - 1.1	45.7	<0.065	<0.050
		1.9 - 2.1	54.7	<0.065	<0.050
		4.4 - 4.6	52.5	<0.065	<0.050

Sample ID	BH23-12 (mg/kg)				
Parameter	Date	Depth (m)	Cr	B[a]P TPE	Benzo(a)p
Results	31-May-2023	0.9 - 1.1	46.7	<0.065	<0.050
		2.9 - 3.1	25.2	<0.065	<0.050
		2.9 - 3.1 (duplicate)	18.4	<0.065	<0.050
		4.9 - 5.1	48.4	<0.065	<0.050

Sample ID	BH23-08 (mg/kg)				
Parameter	Date	Depth (m)	Cr	B[a]P TPE	Benzo(a)p
Results	1-June-2023	1.4 - 1.6	47.5	<0.065	<0.050
		2.9 - 3.1	69.2	<0.065	<0.050
		4.9 - 5.1	46.7	<0.065	<0.050
		4.9 - 5.1 (duplicate)	50.2	<0.065	<0.050

Sample ID	BH22-04 (mg/kg)				
Parameter	Date	Depth (m)	Cr	B[a]P TPE	Benzo(a)p
Results	31-Oct-2022	0.2 - 0.3	21	NA	NA
		1.5 - 1.6	46	<0.020	<0.0050
		2.9 - 3.0	15	NA	NA

Sample ID	MW22-02 (mg/kg)				
Parameter	Date	Depth (m)	Cr	B[a]P TPE	Benzo(a)p
Results	31-Oct-2022	0.8 - 0.9	40	NA	NA
		2.3 - 2.4	19	NA	NA
		3.9 - 4.0	54	<0.020	<0.010

Sample ID	BH23-06 (mg/kg)												
Parameter	Date	Depth (m)	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	As	Cu	Zn
Results	1-June-2023	0.9 - 1.1	<25	<50	<50	<0.065	<0.050	<0.050	<0.050	<0.050	<0.050	73.8	6.46	34.8	93.8
		2.4 - 2.6	<25	<50	<50	<0.065	<0.050	<0.050	<0.050	<0.050	<0.050	55.3	8.30	31.2	84.2
		4.4 - 4.6	<25	<50	<50	<0.065	<0.050	<0.050	<0.050	<0.050	<0.050	71.9	6.08	46.3	110

Sample ID	BH22-07 (mg/kg)														
Parameter	Date	Depth (m)	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	As	Cu	Zn
Results	1-Nov-2022	1.2 - 1.3	<25	59	<50	NA	NA	NA	NA	NA	NA	17	2	9	21
		2.9 - 3.0	<25	<50	<50	NA	NA	NA	NA	NA	NA	34	6	22	48
		4.5 - 4.6	<25	<50	<50	<0.020	<0.0050	<0.010	<0.0050	<0.010	<0.010	25	5	18	42
		4.5 - 4.6 (duplicate)	<25	<50	<50	<0.020	<0.0050	<0.010	<0.0050	<0.010	<0.010	24	5	16	37

Sample ID	BH22-11 (mg/kg)														
Parameter	Date	Depth (m)	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	As	Cu	Zn
Results	1-Nov-2022	0.8 - 0.9	<25	<50	<50	NA	NA	NA	NA	NA	NA	45	6	24	63
		2.4 - 2.5	<25	<50	<50	<0.020	<0.0050	<0.010	<0.0050	<0.010	<0.010	21	4	14	28
		3.9 - 4.0	<25	<50	<50	NA	NA	NA	NA	NA	NA	47	7	29	73

Sample ID	BH23-09 (mg/kg)														
Parameter	Date	Depth (m)	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	As	Cu	Zn
Results	1-June-2023	1.4 - 1.6	<25	<50	<50	<0.065	<0.050	<0.050	<0.050	<0.050	<0.050	70.2	10.9	38.8	116
		2.9 - 3.1	<25	<50	<50	<0.065	<0.050	<0.050	<0.050	<0.050	<0.050	17.1	2.76	8.67	17.8
		4.4 - 4.6	<25	<50	<50	<0.065	<0.050	<0.050	<0.050	<0.050	<0.050	70.2	9.56	39.8	116

Environmental Quality Guideline	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Acenaph	Benz(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	As	Cu	Zn
Suface Soil ≤ 1.5 mbgs	2.8	330	430	230	320	260	2,500	6,600	5.3	0.17	10	1.4	10	9.6	87	12	91	410
Subsoil > 1.5 mbgs	2.9	660	860	460	800	1,000	5,000	10,000	5.3	0.17	10	1.4	10	9.6	87	12	91	410

Sample ID	BH23-05									
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	As
Results	1-Jun-23	0.9-1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
		1.4-1.6	<0.0050	<0.050	<0.015	<0.050	<5.0	**6,630**	**27,100**	**8,040**	9.57
		2.9-3.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	5.22
		4.9-5.1	<0.0050	<0.050	<0.015	<0.050	<5.0	<25	<50	<50	**14.1**

Sample ID	BH23-07			
Parameter	Date	Depth (m)	As	Cr
Results	1-Jun-23	0.9-1.1	NA	NA
		1.4-1.6	**12.6**	**729**
		2.9-3.1	3.26	23.7

Sample ID	BH23-11			
Parameter	Date	Depth (m)	B[a]P TPE	Benzo(a)pyrene
Results	31-May-23	0.9-1.1	NA	NA
		1.4-1.6	**6**	**4.05**
		2.9-3.1	<0.065	<0.050

Sample ID	BH22-05										
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	Cr
Results	4-Nov-22	1.5-1.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	**138**
		3.3-3.4	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	13.4
		4.5-4.6	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	22
		4.5-4.6 (dup)	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	17.1

Sample ID	BH22-08																	
Parameter	Date	Depth (m)	B	T	E	X	F1	F2	F3	F4	B[a]P TPE	Acenaph	Benzo(a)	Benzo(a)p	Benzo(b+j)	Chrysene	Cr	Cu	Zn
Results	1-Nov-22	0.8-0.9	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	74.7	43.6	161
		1.4-1.5	0.0098	0.215	0.039	0.159	114	**3,890**	**19,800**	5,970	**15**	**0.366**	**15.2**	**12.5**	**16.1**	**13.5**	**513**	**302**	**722**
		3.0-3.1	<0.0050	<0.050	<0.015	<0.071	<10	<25	<50	<50	NA	NA	NA	NA	NA	NA	51	31.4	79

NOTES:

Abbreviations	B - Benzene; T - Toluene; E - Ethylbenzene; X - Xylenes; F1 - PHC fraction F1; F2 - PHC fraction F2; F3 - PHC fraction F3; F4 - PHC Fraction F4; PAH - Polycyclic Aromatic Hydrocarbons
	Acenaph - Acenaphthylene; Benz(a) - Benz(a)anthracene; Benzo(a)p - Benzo(a)pyrene; Benzo(b+j) - Benzo(b+j)fluoranthene; Cr - Chromium; As - Arsenic; Ag - Silver
	Cd - Cadmium; Cu - Copper; Pb - Lead; Zn - Zinc
	Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (2014) - Industrial Land Use, Fine Grained Soils
	CCME Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Industrial, Fine Grained Soils
	Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition, Industrial Land Use, Fine Grain Soil
<	Denotes concentration less than reportable detection limit
mg/kg	Unit for all soil quality guideline criteria and analytical results is milligrams per kilogram unless otherwise stated
dS/m	deciSiemens per metre
XX	Black and bold analytical results exceeded applied standards
NA	Not Analyzed

PHASE II ENVIRONMENTAL SITE ASSESSMENT (PARCEL C)
NEWPCC UPGRADE: BIOSOLIDS FACILITIES
2230 MAIN STREET, WINNIPEG, MANITOBA

SOIL SAMPLE LOCATIONS AND PETROLEUM HYDROCARBON, POLYCYCLIC AROMATIC HYDROCARBON AND METALS IMPACTS

0 40 80 120 160
Meters
Datum: NAD 1983 UTM Zone 14N

Mar, 2024 | PN#: 60660698 | 1:3,000 * when printed 11"x17"

Figure 2

AECOM

Data Sources: NRCan - CanVec; 1959 Air Photo - Stantec
Esri Canada, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NRCan, Parks Canada

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Tables

NEWPCC Biosolid Facilities: Parcel C
Remedial Action Plan
Table 1: Soil Analytical Results - Petroleum Hydrocarbons

			Sample ID	BH24-01-01	BH24-01-03	BH24-01-05	BH24-01-07	BH24-02-02	BH24-02-04	BH24-02-06	BH24-02-07	BH24-03-01	BH24-03-03	BH24-03-05	BH24-03-07	BH24-04-02	BH24-04-04	BH24-04-06	BH24-04-07	BH24-05-01	BH24-05-03	BH24-05-05	BH24-05-07	DUP-01 (dup of BH24-05-07)	BH24-06-02
			Sample Date	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-24
			Sample Depth (m bgs)	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0	0.5-1.0	1.5-2.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0	0.5-1.0	1.5-2.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0	4.0-5.0	0.5-1.0
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units																						
Benzene	2.1	2.1	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	110	220	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	120	240	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	65	130	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
PHC F1 (C6-C10) minus BTEX	210	800	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PHC F2 (>C10-C16)	150	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	1,300	3,500	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	5,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	23.6	30.3	33.2	27.8	19.1	23.8	34.6	37.7	31.4	24.8	27.0	33.7	22.8	18.3	31.2	34.7	23.5	22.8	22.5	33.6	32.9	21.3

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Agricultural Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Agricultural Land Use, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Table 1: Soil Analytical Results - Petroleum Hydrocarbons

			Sample ID	BH24-06-04	BH24-06-06	BH24-06-07	BH24-07-02	BH24-07-05	BH24-08-03	BH24-08-06	DUP-02 (dup of BH24-08-06)	BH24-09-03	DUP-03 (dup of BH24-09-03)	BH24-09-05	BH24-10-02	BH24-10-04
			Sample Date	16-Jan-24	16-Jan-24	16-Jan-24	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024
			Sample Depth (m bgs)	1.5-2.0	3.0-4.0	4.0-5.0	0.5-1.0	2.0-3.0	1.0-1.5	3.0-4.0	3.0-4.0	1.0-1.5	1.0-1.5	2.0-3.0	0.5-1.0	1.5-2.0
Parameter	CCME Surface Soil (<1.5 m bgs)[a,b]	CCME-Subsoil (>1.5 m bgs)[a,b]	Units													
Benzene	2.1	2.1	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0060	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Toluene	110	220	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	120	240	mg/kg	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Xylenes, Total	65	130	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
PHC F1 (C6-C10) minus BTEX	210	800	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
PHC F2 (>C10-C16)	150	1,000	mg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
PHC F3 (>C16-C34 range)	1,300	3,500	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
PHC F4 (>C34-C50 range)	5,600	10,000	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Moisture	n/g	n/g	%	22.3	29.5	33.6	28.8	32.0	24.5	33.6	34.5	23.3	24.8	18.4	21.5	27.8

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Agricultural Land Use, Human Health Guidelines 10^{-5} incremental risk*

[b] *CCME, Canada-Wide Standards for Petroleum Hydrocarbons (PHC) in Soil (2008) - Agricultural Land Use, Fine Grained Soils*

m bgs: meters below ground surface

mg/kg: milligrams per kilogram

< :Denotes concentration less than indicated detection limit

n/g: no guideline

PHC: Petroleum Hydrocarbons

BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*

Table 2: Soil Analytical Results - Polycyclic Aromatic Hydrocarbons

		Sample ID	BH24-01-01	BH24-01-03	BH24-01-05	BH24-01-07	BH24-02-02	BH24-02-04	BH24-02-06	BH24-02-07	BH24-03-01	BH24-03-03	BH24-03-05	BH24-03-07	BH24-04-02	BH24-04-04	BH24-04-06	BH24-04-07	BH24-05-01	BH24-05-03	BH24-05-05	BH24-05-07
		Sample Date	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024
		Sample Depth (m bgs)	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0	0.5-1.0	1.5-2.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0	0.5-1.0	1.5-2.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0
Parameter	CCME[a]	Units																				
Benzo(a)pyrene total potency equivalents	**5.3**	mg/kg	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065
Acenaphthene	**21.5**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	**0.17**[b]	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	**n/g**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	**2.5**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	**6.2**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	**0.6**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	**6.2**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	**7.8 b**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	**6.2**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	6.2	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	**0.1**[c]	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	**15.4**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	15.4	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	**0.1**[c]	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	**3.4**[b]	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 2-	**3.4**[b]	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	**8.8**	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	**43**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	**7.7**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	**1.6**[d]	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Agriultural Land Use, Fine Grain Soil, Human Health Guidelines 10^{-5} incremental risk.*

[b] *Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Parkland Land Use, Fine Grain Soil).*

[c] *interim Soil Quality Criteria CCME 1991)*

[d] *Federal Soil Quality Guidelines (FSQGs) for Quinoline, Agricultural Land Use.*

m bgs: meters below ground surface
mg/kg: milligrams per kilogram
< :Denotes concentration less than indicated detection limit
- :Not analyzed
n/g: no guideline
PAH: Polycyclic Aromatic Hydrocarbons
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities: Parcel C
Remedial Action Plan
Table 2: Soil Analytical Results - Polycyclic Aromatic Hydrocarbons

AECOM

		Sample ID	DUP-01 (dup of BH24-05-07)	BH24-06-02	BH24-06-04	BH24-06-06	BH24-06-07	BH24-07-02	BH24-07-05	BH24-08-03	BH24-08-06	DUP-02 (dup of BH24-08-06)	BH24-09-03	DUP-03 (dup of BH24-09-03)	BH24-09-05	BH24-10-02	BH24-10-04
		Sample Date	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024
		Sample Depth (m bgs)	4.0-5.0	0.5-1.0	1.5-2.0	3.0-4.0	4.0-5.0	0.5-1.0	2.0-3.0	1.0-1.5	3.0-4.0	3.0-4.0	1.0-1.5	1.0-1.5	2.0-3.0	0.5-1.0	1.5-2.0
Parameter	CCME[a]	Units															
Benzo(a)pyrene total potency equivalents	**5.3**	mg/kg	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065	<0.065
Acenaphthene	**21.5**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	**0.17** [b]	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	**n/g**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	**2.5**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	**6.2**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	**0.6**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	**6.2**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(g,h,i)perylene	**7.8 b**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	**6.2**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	6.2	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	**0.1** [c]	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	**15.4**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	15.4	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	**0.1** [c]	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	**3.4** [b]	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 2-	**3.4** [b]	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	**8.8**	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	**43**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	**7.7**	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	**1.6** [d]	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Notes:

[a] Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version) - Agriultural Land Use, Fine Grain Soil, Human Health Guidelines 10^{-5} incremental risk.

[b] Ontario Ministry of the Environment (MOE) Soil Standards (2011) - Table 3 Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition (Parkland Land Use, Fine Grain Soil).

[c] interim Soil Quality Criteria CCME 1991)

[d] Federal Soil Quality Guidelines (FSQGs) for Quinoline, Agricultural Land Use.

m bgs: meters below ground surface
mg/kg: milligrams per kilogram
< :Denotes concentration less than indicated detection limit
- :Not analyzed
n/g: no guideline
PAH: Polycyclic Aromatic Hydrocarbons
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities: Parcel C
Remedial Action Plan
Table 3: Soil Analytical Results - Metals

AECOM

																				2024 Sampling Eve
		Sample ID:	BH24-01-01	BH24-01-03	BH24-01-05	BH24-01-07	BH24-02-02	BH24-02-04	BH24-02-06	BH24-02-07	BH24-03-01	BH24-03-03	BH24-03-05	BH24-03-07	BH24-04-02	BH24-04-04	BH24-04-06	BH24-04-07	BH24-05-01	BH24-05-03
		Date Sampled (mm/dd/yyyy):	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024
		Depth (m bgs)	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0	0.5-1.0	1.5-2.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5	2.0-3.0	4.0-5.0	0.5-1.0	1.5-2.0	3.0-4.0	4.0-5.0	0.0-0.5	1.0-1.5
Parameter	SQG [a]	Units																		
Aluminum (Al)	**NG**	mg/kg	11600	18800	25100	17000	9000	19100	23000	26700	23700	14800	20400	25400	10800	8490	25800	25100	21500	12100
Antimony (Sb)	**20**	mg/kg	0.20	0.31	0.49	0.32	0.16	0.29	0.48	0.51	0.46	0.24	0.27	0.52	0.18	0.15	0.45	0.48	0.33	0.19
Arsenic (As)	**12**	mg/kg	4.07	6.30	9.08	6.38	3.26	5.65	8.85	10.5	8.51	4.70	5.75	10.9	3.56	3.07	9.07	9.52	6.45	3.81
Barium (Ba)	**750**	mg/kg	95.7	156	207	150	64.6	173	190	154	197	117	178	263	89.3	69.7	186	186	157	87.3
Beryllium (Be)	**4**	mg/kg	0.48	0.85	1.05	0.72	0.34	0.76	1.11	1.23	1.04	0.54	0.72	1.14	0.41	0.31	1.11	1.09	0.79	0.49
Bismuth (Bi)	**NG**	mg/kg	<0.20	0.21	0.29	<0.20	<0.20	0.22	0.33	0.34	0.27	<0.20	0.21	0.32	<0.20	<0.20	0.30	0.30	0.21	<0.20
Boron (B)	**NG**	mg/kg	14.5	19.2	19.3	17.2	13.3	17.4	14.2	18.0	17.4	15.2	17.7	15.1	14.9	13.6	19.2	17.9	18.6	15.8
Cadmium (Cd)	**1.4**	mg/kg	0.145	0.185	0.269	0.193	0.103	0.157	0.487	0.252	0.245	0.167	0.209	0.296	0.142	0.121	0.283	0.278	0.199	0.140
Calcium (Ca)	**NG**	mg/kg	87500	57400	34800	62100	99800	53400	26100	25000	45900	70700	56000	21700	95800	97300	33400	29500	61000	101000
Chromium (Cr)	**64**	mg/kg	25.3	38.1	45.9	33.1	19.9	40.5	45.7	47.3	44.0	29.1	42.7	47.4	23.8	19.2	48.5	47.4	41.0	24.9
Chromium, hexavalent (Cr VI)	**0.4**	mg/kg	<0.10	<0.10	0.14	<0.10	<0.10	<0.10	0.10	0.13	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	0.13	0.10	0.12	<0.10
Cobalt (Co)	**40**	mg/kg	6.95	12.2	14.0	9.57	4.91	11.0	14.6	15.4	13.6	7.83	11.7	15.2	5.97	4.81	14.0	14.9	10.7	6.09
Copper (Cu)	**63**	mg/kg	15.6	23.9	32.4	22.5	12.1	25.5	37.1	32.5	29.2	18.8	27.8	35.4	14.0	11.6	33.0	37.5	23.8	14.4
Iron (Fe)	**NG**	mg/kg	14600	23400	30600	22000	11900	23800	31400	33400	28500	17800	25400	31800	14100	11500	31100	31200	24400	14800
Lead (Pb)	**70**	mg/kg	6.43	10.0	13.4	8.96	5.16	10.3	14.5	15.5	12.6	7.54	10.3	14.8	5.69	4.87	13.1	14.0	11.0	6.41
Lithium (Li)	**NG**	mg/kg	17.7	27.4	29.2	21.4	11.9	27.0	27.8	28.9	26.0	18.9	32.1	28.0	17.2	14.2	32.4	29.6	25.3	16.3
Magnesium (Mg)	**NG**	mg/kg	51800	36800	20800	35700	60100	33900	15900	14500	27000	44600	38700	14800	59000	58600	19600	17800	36300	56100
Manganese (Mn)	**NG**	mg/kg	376	511	511	414	313	434	500	484	496	341	505	520	287	288	486	509	437	289
Molybdenum (Mo)	**5**	mg/kg	0.68	0.94	1.26	0.94	0.25	0.65	1.21	1.35	1.35	0.58	0.63	1.12	0.56	0.54	1.24	1.31	0.59	0.37
Nickel (Ni)	**45/171** [b]	mg/kg	20.5	32.1	40.5	27.6	15.2	33.5	43.1	43.4	41.1	22.8	34.6	43.6	17.2	14.5	40.7	41.2	31.8	17.7
Phosphorus (P)	**NG**	mg/kg	418	460	548	474	414	515	530	542	464	420	540	518	383	383	553	519	446	373
Potassium (K)	**NG**	mg/kg	2250	3640	4550	3120	1700	4030	4290	4600	4030	2790	4450	4640	1870	1600	4810	4480	3660	2120
Selenium (Se)	**1**	mg/kg	<0.20	0.41	0.59	0.34	<0.20	<0.20	0.74	0.34	<0.20	<0.20	0.31	0.80	<0.20	<0.20	0.74	0.43	<0.20	<0.20
Silver (Ag)	**20**	mg/kg	<0.10	0.12	0.14	<0.10	<0.10	0.11	0.14	0.14	0.10	<0.10	0.11	0.14	<0.10	<0.10	0.15	0.13	0.11	<0.10
Sodium (Na)	**NG**	mg/kg	800	882	773	747	287	439	335	348	474	412	614	521	903	906	2060	1960	480	380
Strontium (Sr)	**NG**	mg/kg	56.8	64.9	83.0	64.8	44.8	58.0	80.2	85.8	70.8	58.5	63.6	81.5	63.2	51.6	83.5	83.0	68.6	61.9
Sulfur (S)	**NG**	mg/kg	1000	1700	3900	3200	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	11100	8400	<1000	<1000
Thallium (Tl)	**1**	mg/kg	0.166	0.259	0.328	0.222	0.140	0.290	0.335	0.327	0.299	0.211	0.310	0.315	0.151	0.125	0.320	0.323	0.282	0.165
Tin (Sn)	**5**	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	338	372	222	262	430	432	143	144	179	356	589	135	374	358	182	160	347	354
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**23**	mg/kg	1.18	1.66	2.06	1.50	0.661	1.10	1.92	1.96	1.34	0.973	1.34	1.95	1.50	1.35	2.72	2.51	1.05	0.787
Vanadium (V)	**130**	mg/kg	38.0	59.6	77.6	54.9	29.5	59.9	67.4	78.5	73.9	45.4	60.2	74.4	35.1	28.4	78.4	78.3	66.1	38.2
Zinc (Zn)	**250**	mg/kg	34.0	55.5	77.7	51.9	23.0	55.5	84.4	85.3	70.9	42.6	63.0	84.0	30.2	23.6	79.4	82.8	56.8	32.6
Zirconium (Zr)	**NG**	mg/kg	12.9	17.1	17.5	14.9	11.6	17.5	15.9	15.4	14.8	14.2	19.0	15.9	13.0	11.7	20.5	18.9	14.6	12.2

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Agricultural Land Use.*
[b] *surface soil/subsoil*
SQG - soil quality guideline.
m bgs - metres below ground surface.
mg/kg - milligram per kilogram.
NG - No Guideline.
"-" - Not Analyzed.
< - Denotes concentration less than indicated detection limit.
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

NEWPCC Biosolid Facilities: Parcel C
Remedial Action Plan
Table 3: Soil Analytical Results - Metals

AECOM

			nt															
Sample ID:			BH24-05-05	BH24-05-07	DUP-01 (dup of BH24-05-07)	BH24-06-02	BH24-06-04	BH24-06-06	BH24-06-07	BH24-07-02	BH24-07-05	BH24-08-03	BH24-08-06	DUP-02 (dup of BH24-08-06)	BH24-09-03	DUP-03 (dup of BH24-09-03)	BH24-09-05	BH24-10-02	BH24-10-04
Date Sampled (mm/dd/yyyy):			16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024	16-Jan-2024
Depth (m bgs)			2.0-3.0	4.0-5.0	4.0-5.0	0.5-1.0	1.5-2.0	3.0-4.0	4.0-5.0	0.5-1.0	2.0-3.0	1.0-1.5	3.0-4.0	3.0-4.0	1.0-1.5	1.0-1.5	2.0-3.0	0.5-1.0	1.5-2.0
Parameter	SQG [a]	Units																	
Aluminum (Al)	**NG**	mg/kg	9330	28300	28700	13800	12600	29400	28100	16100	27600	10600	30600	32600	34000	29800	10000	17700	30000
Antimony (Sb)	**20**	mg/kg	0.15	0.41	0.37	0.22	0.16	0.46	0.43	0.23	0.44	0.14	0.42	0.43	0.40	0.36	0.15	0.26	0.24
Arsenic (As)	**12**	mg/kg	3.22	7.65	8.09	4.83	3.81	10.5	9.26	5.26	10.2	3.38	9.90	9.24	9.49	8.26	3.18	5.58	6.12
Barium (Ba)	**750**	mg/kg	75.5	228	260	98.8	90.9	307	284	120	214	80.1	314	312	242	254	65.8	117	278
Beryllium (Be)	**4**	mg/kg	0.34	1.15	1.36	0.57	0.48	1.18	1.27	0.60	1.26	0.40	1.36	1.44	1.34	1.20	0.37	0.71	0.94
Bismuth (Bi)	**NG**	mg/kg	<0.20	0.30	0.28	<0.20	<0.20	0.27	0.28	<0.20	0.28	<0.20	0.29	0.30	0.26	0.24	<0.20	<0.20	0.21
Boron (B)	**NG**	mg/kg	12.4	18.3	24.4	18.8	17.2	26.7	26.2	20.3	23.5	16.9	23.8	25.5	28.3	25.8	17.3	20.9	21.8
Cadmium (Cd)	**1.4**	mg/kg	0.122	0.257	0.288	0.169	0.147	0.268	0.229	0.148	0.230	0.128	0.256	0.257	0.240	0.240	0.136	0.201	0.193
Calcium (Ca)	**NG**	mg/kg	87700	21500	31500	98600	93000	49700	30400	115000	30000	110000	20300	17000	48200	77600	118000	90200	44600
Chromium (Cr)	**64**	mg/kg	21.0	56.1	57.2	29.7	25.1	56.7	49.3	28.9	51.1	21.3	58.3	59.6	56.0	52.0	21.2	33.6	60.0
Chromium, hexavalent (Cr VI)	**0.4**	mg/kg	<0.10	0.18	0.26	0.14	0.15	0.21	0.27	0.14	0.24	0.17	0.28	0.39	0.24	0.21	0.13	0.18	0.19
Cobalt (Co)	**40**	mg/kg	5.23	15.5	16.1	7.68	6.39	15.9	14.8	7.67	16.5	5.33	13.8	14.7	15.0	13.2	5.28	8.58	15.5
Copper (Cu)	**63**	mg/kg	13.1	37.3	37.5	17.2	15.4	38.4	31.4	16.5	33.1	11.8	38.4	38.1	31.0	28.8	12.3	19.7	37.8
Iron (Fe)	**NG**	mg/kg	12800	32200	31400	17100	14900	35700	32000	16500	32000	12600	35600	34600	33200	30500	12400	19600	32200
Lead (Pb)	**70**	mg/kg	5.28	13.8	13.9	7.42	6.48	14.8	14.0	7.43	14.2	5.47	14.9	14.6	13.9	12.5	5.54	8.58	11.7
Lithium (Li)	**NG**	mg/kg	13.3	33.6	39.2	19.9	18.8	41.2	33.9	21.3	34.8	16.8	41.0	39.7	40.0	39.5	17.1	24.4	52.5
Magnesium (Mg)	**NG**	mg/kg	56300	18800	22700	61700	57000	32400	19100	56900	24500	64400	20000	18000	27400	32400	70800	49300	31500
Manganese (Mn)	**NG**	mg/kg	297	553	523	357	326	786	549	357	548	330	475	488	559	523	304	463	654
Molybdenum (Mo)	**5**	mg/kg	0.34	1.32	1.17	0.54	0.41	1.09	1.02	0.31	1.14	0.27	1.04	1.03	0.41	0.40	0.36	0.49	0.53
Nickel (Ni)	**45/171** [b]	mg/kg	15.6	48.9	49.7	21.9	18.8	46.9	41.1	22.6	44.4	16.4	47.7	48.4	44.7	39.6	15.8	25.0	47.2
Phosphorus (P)	**NG**	mg/kg	402	609	643	509	445	736	564	423	611	367	599	625	534	531	434	517	664
Potassium (K)	**NG**	mg/kg	1800	5610	6120	2730	2440	5660	5050	2540	5390	1930	5880	6210	4860	4430	1740	2980	6760
Selenium (Se)	**1**	mg/kg	<0.20	0.58	0.55	<0.20	<0.20	0.23	0.46	<0.20	0.73	<0.20	0.56	0.35	0.20	<0.20	<0.20	<0.20	<0.20
Silver (Ag)	**20**	mg/kg	<0.10	0.14	0.12	<0.10	<0.10	0.13	0.11	<0.10	0.12	<0.10	0.14	0.12	0.14	0.10	<0.10	<0.10	0.10
Sodium (Na)	**NG**	mg/kg	345	511	508	353	349	558	368	438	1050	682	1230	1090	930	832	492	376	790
Strontium (Sr)	**NG**	mg/kg	45.8	78.8	72.3	53.0	42.0	76.5	75.2	68.8	65.9	53.4	77.1	82.0	75.7	94.3	54.3	72.7	74.4
Sulfur (S)	**NG**	mg/kg	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	1400	<1000	<1000	<1000	1400	1200	<1000	<1000	<1000
Thallium (Tl)	**1**	mg/kg	0.145	0.348	0.294	0.165	0.162	0.340	0.274	0.170	0.272	0.122	0.340	0.307	0.336	0.297	0.132	0.208	0.369
Tin (Sn)	**5**	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium (Ti)	**NG**	mg/kg	390	234	311	388	496	549	219	404	252	349	346	261	375	354	469	441	1220
Tungsten (W)	**NG**	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	**23**	mg/kg	0.647	1.77	1.71	0.851	0.751	1.57	1.54	1.46	2.17	0.906	2.07	2.11	1.90	1.77	0.899	0.982	1.19
Vanadium (V)	**130**	mg/kg	31.1	84.5	88.9	46.4	38.3	88.0	87.2	48.9	88.0	32.9	92.8	95.1	99.7	86.4	31.8	54.7	78.4
Zinc (Zn)	**250**	mg/kg	27.1	81.9	81.9	37.6	31.9	89.7	83.2	34.5	79.4	26.2	91.2	90.7	77.8	69.5	25.0	43.8	78.6
Zirconium (Zr)	**NG**	mg/kg	11.8	19.0	16.6	12.8	12.2	18.8	13.3	9.7	14.3	8.4	17.9	16.1	13.8	14.3	11.6	12.6	22.6

[a] *Canadian Council of Ministers of the Environment (CCME) Soil Quality Guidelines (most recent online version), Agricultural Land Use.*
[b] *surface soil/subsoil*
SQG - soil quality guideline.
m bgs - metres below ground surface.
mg/kg - milligram per kilogram.
NG - No Guideline.
"-" - Not Analyzed.
< - Denotes concentration less than indicated detection limit.
BOLD *Reportable Detection Limit (RDL) exceeds the regulatory standard*
Yellow *Exceeds Applied Soil Quality Guideline*

Table 4. Quality Assurance/Quality Control - Soil Petroleum Hydrocarbons

				Sample Location	BH24-05		RPD (%)	Difference	BH24-08		RPD (%)	Difference	BH24-09		RPD (%)	Difference
				Sample Date (mm/dd/yyyy)	16-Jan-24				16-Jan-24				16-Jan-24			
				Sample ID	BH24-05-07	DUP-01			BH24-08-06	DUP-02			BH24-09-03	DUP-03		
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)												
Petroleum Hydrocarbons																
Benzene	mg/kg	0.0050	100	0.010	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC	<0.0050	<0.0050	NC	NC
Toluene	mg/kg	0.050	100	0.10	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Ethylbenzene	mg/kg	0.015	100	0.030	<0.015	<0.015	NC	NC	<0.015	<0.015	NC	NC	<0.015	<0.015	NC	NC
Xylenes	mg/kg	0.071	100	0.142	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
F1	mg/kg	10	60	20	<5.0	<5.0	NC	NC	<5.0	<5.0	NC	NC	<5.0	<5.0	NC	NC
F2	mg/kg	25	80	50	<25	<25	NC	NC	<25	<25	NC	NC	<25	<25	NC	NC
F3	mg/kg	50	80	100	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC
F4	mg/kg	50	80	100	<50	<50	NC	NC	<50	<50	NC	NC	<50	<50	NC	NC

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.
NC - Not Calculated (Result is below 5x the detection limit).
NA - Not Applicable (Result is more than 5x the detection limit).
RPD - Relative Percent Difference.
mg/kg - milligram per kilogram.
% - Percent.
< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Table 5. Quality Assurance/Quality Control for Soil Polycyclic Aromatic Hydrocarbons

				Sample Location	BH24-05				BH24-08				BH24-09			
				Sample Date	16-Jan-24				16-Jan-24				16-Jan-24			
				Sample ID	BH24-05-07	Dup - 01	RPD (%)	Difference	BH24-08-06	Dup - 02	RPD (%)	Difference	BH24-09-03	Dup - 03	RPD (%)	Difference
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)												
Benzo(a)pyrene total potency equivalents	mg/kg	0.0071	100	0.0142	<0.065	<0.065	NC	NC	<0.065	<0.065	NC	NC	<0.065	<0.065	NC	NC
Acenaphthene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Acenaphthylene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Acridine	mg/kg	0.010	100	0.020	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Anthracene	mg/kg	0.0040	100	0.0080	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Fluorene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Naphthalene	mg/kg	0.0050	100	0.010	<0.010	<0.010	NC	NC	<0.010	<0.010	NC	NC	<0.010	<0.010	NC	NC
Phenanthrene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Benz(a)anthracene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Benzo(a)pyrene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Benzo(b+j)fluoranthene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Benzo(g,h,i)perylene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Benzo(k)fluoranthene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Chrysene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Dibenz(a,h)anthracene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Fluoranthene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Methylnaphthalene, 1-	mg/kg	0.0050	100	0.010	<0.030	<0.030	NC	NC	<0.030	<0.030	NC	NC	<0.030	<0.030	NC	NC
Methylnaphthalene, 2-	mg/kg	0.0050	100	0.010	<0.030	<0.030	NC	NC	<0.030	<0.030	NC	NC	<0.030	<0.030	NC	NC
Pyrene	mg/kg	0.0050	100	0.010	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC
Quinoline	mg/kg	0.010	100	0.020	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC	<0.050	<0.050	NC	NC

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.
NC - Not Calculated (Result is below 5x the detection limit).
NA - Not Applicable (Result is more than 5x the detection limit).
RPD - Relative Percent Difference.
mg/kg - milligram per kilogram.
% - Percent.
< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Table 6. Quality Assurance/Quality Control - Soil Metals

				Sample Location	BH24-05		RPD (%)	Difference	BH24-08		RPD (%)	Difference	BH24-09		RPD (%)	Difference
				Sample Date	16-Jan-24				16-Jan-24				16-Jan-24			
				Sample ID	BH22-21-SS02	BH22-21-SS-04 (Dup of BH22-21-SS02)			BH22-22-SS04	BH22-22-SS08 (Dup of BH22-22-SS04			BH22-25-SS03	BH22-25-SS05 (Dup of BH22-25-SS03)		
Parameter	Units	Detection Limit	Alert Limit (Primary)	Alert Limit (Alternate)												
Aluminum (Al)	mg/kg	0.10	80	0.20	28300	28700	1.4	NA	30600	32600	6.3	NA	34000	29800	13.2	NA
Antimony (Sb)	mg/kg	0.10	60	0.20	0.41	0.37	NC	0.0	0.42	0.43	NC	0.01	0.40	0.36	NC	0.04
Arsenic (As)	mg/kg	0.10	60	0.20	7.65	8.09	5.6	NA	9.90	9.24	6.9	NA	9.49	8.26	13.9	NA
Barium (Ba)	mg/kg	0.50	80	1.00	228	260	13.1	NA	314	312	0.6	NA	242	254	4.8	NA
Beryllium (Be)	mg/kg	0.10	60	0.20	1.15	1.36	16.7	NA	1.36	1.44	5.7	NA	1.34	1.20	11.0	NA
Bismuth (Bi)	mg/kg	0.20	60	0.40	0.30	0.28	NC	0.0	0.29	0.30	NC	0.0	0.26	0.24	NC	0.02
Boron (B)	mg/kg	5.0	60	10.0	18.3	24.4	NC	6.1	23.8	25.5	6.9	NA	28.3	25.8	9.2	NA
Cadmium (Cd)	mg/kg	0.020	60	0.040	0.257	0.288	11.4	NA	0.256	0.257	0.4	NA	0.240	0.240	0.0	NA
Calcium (Ca)	mg/kg	50	60	100	21500	31500	37.7	NA	20300	17000	17.7	NA	48200	77600	46.7	NA
Chromium (Cr)	mg/kg	0.50	60	1.00	56.1	57.2	1.9	NA	58.3	59.6	2.2	NA	56.0	52.0	7.4	NA
Chromium, hexavalent (Cr VI)	mg/kg	0.10	60	0.20	0.18	0.26	36.4	NA	0.28	0.39	NC	0.1	0.24	0.21	NC	0.03
Cobalt (Co)	mg/kg	0.10	60	0.20	15.5	16.1	3.8	NA	13.8	14.7	6.3	NA	15.0	13.2	12.8	NA
Copper (Cu)	mg/kg	0.50	60	1.0	37.3	37.5	0.5	NA	38.4	38.1	0.8	NA	31.0	28.8	7.4	NA
Iron (Fe)	mg/kg	50	60	100	32200	31400	2.5	NA	35600	34600	2.8	NA	33200	30500	8.5	NA
Lead (Pb)	mg/kg	0.50	60	1.0	13.8	13.9	0.7	NA	14.9	14.6	2.0	NA	13.9	12.5	10.6	NA
Lithium (Li)	mg/kg	2.0	60	4.0	33.6	39.2	15.4	NA	41.0	39.7	3.2	NA	40.0	39.5	1.3	NA
Magnesium (Mg)	mg/kg	20	60	40	18800	22700	18.8	NA	20000	18000	10.5	NA	27400	32400	16.7	NA
Manganese (Mn)	mg/kg	1.0	60	2.0	553	523	5.6	NA	475	488	2.7	NA	559	523	6.7	NA
Molybdenum (Mo)	mg/kg	0.10	60	0.20	1.32	1.17	12.0	NA	1.04	1.03	1.0	NA	0.41	0.40	NC	0.0
Nickel (Ni)	mg/kg	0.50	60	1.0	48.9	49.7	1.6	NA	47.7	48.4	1.5	NA	44.7	39.6	12.1	NA
Phosphorus (P)	mg/kg	50	60	100	609	643	5.4	NA	599	625	4.2	NA	534	531	0.6	NA
Potassium (K)	mg/kg	100	60	200	5610	6120	8.7	NA	5880	6210	5.5	NA	4860	4430	9.3	NA
Selenium (Se)	mg/kg	0.20	60	0.40	0.58	0.55	NC	0.0	0.56	0.35	NC	0.2	<0.20	<0.20	NC	NC
Silver (Ag)	mg/kg	0.10	60	0.20	0.14	0.12	NC	0.0	0.14	0.12	NC	0.0	0.14	0.10	NC	0.04
Sodium (Na)	mg/kg	50	80	100	511	508	0.6	NA	1230	1090	12.1	NA	930	832	11.1	NA
Strontium (Sr)	mg/kg	0.50	80	1.0	78.8	72.3	8.6	NA	77.1	82.0	6.2	NA	75.7	94.3	21.9	NA
Sulfur (S)	mg/kg	1,000	60	2,000	<1000	<1000	NC	NC	<1000	<1000	NC	NC	1400	1200	NC	200
Thallium (Tl)	mg/kg	0.050	60	0.10	0.348	0.294	16.8	NA	0.340	0.307	10.2	NA	0.336	0.297	12.3	NA
Tin (Sn)	mg/kg	2.0	60	4.0	<2.0	<2.0	NC	NC	<2.0	<2.0	NC	NC	<2.0	<2.0	NC	NC
Titanium (Ti)	mg/kg	1.0	80	2.0	234	311	28.3	NA	346	261	28.0	NA	375	354	5.8	NA
Tungsten (W)	mg/kg	0.50	60	1.0	<0.50	<0.50	NC	NC	<0.50	<0.50	NC	NC	<0.50	<0.50	NC	NC
Uranium (U)	mg/kg	0.050	60	0.10	1.77	1.71	3.4	NA	2.07	2.11	1.9	NA	1.90	1.77	7.1	NA
Vanadium (V)	mg/kg	0.20	60	0.40	84.5	88.9	5.1	NA	92.8	95.1	2.4	NA	99.7	86.4	14.3	NA
Zinc (Zn)	mg/kg	2.0	60	4.0	81.9	81.9	0.0	NA	91.2	90.7	0.5	NA	77.8	69.5	11.3	NA
Zirconium (Zr)	mg/kg	1.0	60	2.0	19.0	16.6	13.5	NA	17.9	16.1	10.6	NA	13.8	14.3	3.6	NA

Notes:

All results and soil quality guidelines in mg/kg, unless otherwise noted.
NC - Not Calculated (Result is below 5x the detection limit).
NA - Not Applicable (Result is more than 5x the detection limit).
RPD - Relative Percent Difference.
mg/kg - milligram per kilogram.
mg/L - milligram per litre.
% - Percent.
< - Denotes concentration less than indicated detection limit.

XX Exceeds Alert Limit.

Appendix A Site Photographs

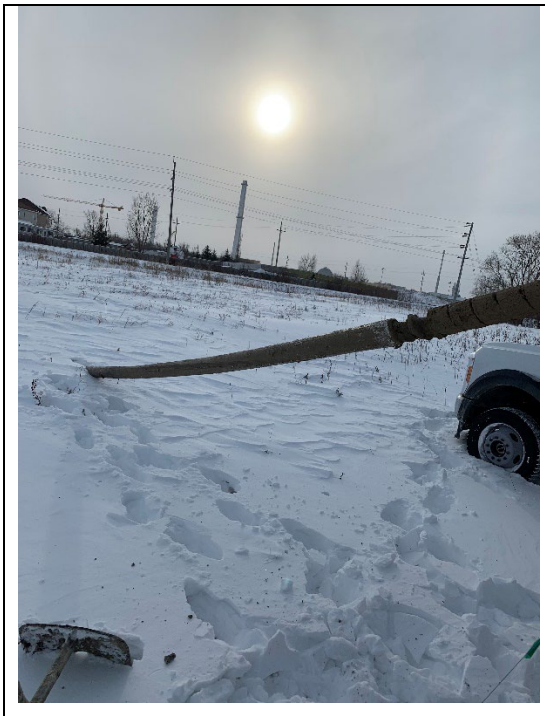
PHOTOGRAPHIC RECORD

AECOM Imagine it. Delivered.

Site Name:
NEWPCC Parcel C

Site Location:
WINNIPEG, MB

Project No.
60660698

	
Photo No. 1 **Date:** 16-Jan-2024 **Description:** Drilling BH24-01	**Photo No**. 2 **Date:** 16- Jan-2024 **Description:** BH24-01 (0.0 – 6.0 m)
	
Photo No. 3 **Date:** 16-Jan-2024 **Description:** BH23-03 (0.0 – 6.0 m)	**Photo No**. 4 **Date:** 16-Jan-2024 **Description**: BH23-03 (3.0 m)

PHOTOGRAPHIC RECORD

AECOM Imagine it. Delivered.

Site Name:
NEWPCC Parcel C

Site Location:
WINNIPEG, MB

Project No.
60660698



Photo No. 5
Date: 16-Jan-2024
Description: BH23-04 (0.0 – 6.0 m)



Photo No. 6
Date: 16-Jan-2024
Description: BH23-05 (1.5 – 3.0 m)



Photo No. 7
Date: 16-Jan-2024
Description: BH23-05 (0.0 – 6.0 m)



Photo No. 8
Date: 16-Jan-2024
Description: BH23-06 (0.0 – 6.0 m)

PHOTOGRAPHIC RECORD

AECOM Imagine it. Delivered.

Site Name:
NEWPCC Parcel C

Site Location:
WINNIPEG, MB

Project No.
60660698

	
Photo No. 9 **Date:** 16-Jan-2024 **Description:** BH23-09 (0.0 – 4.5 m)	**Photo No**. 10 **Date:** 16-Jan-2024 **Description:** BH23-10 (0.0 – 4.5 m)
	
Photo No. 11 **Date:** 16-Jan-2024 **Description:** BH23-08 (0.0 – 4.5 m)	**Photo No**. 12 **Date:** 16-Jan-2024 **Description:** BH23-07 (0.0 – 4.5 m)

Appendix B Borehole Logs

PROJECT: NEWPCC Parcel C	CLIENT: City of Winnipeg	TESTHOLE NO: **BH24-01**
LOCATION: 5535722, 635502.7		PROJECT NO.: 60660698
CONTRACTOR: Paddock	METHOD: Solid Stem Auger	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		CLAY - brown, some silt, soft, moist, medium plasticity		01		Sample BH24-01-01 submitted for analysis of BTEX F1-F4, PAHs and metals	0
				02			
1				03		Sample BH24-01-03 submitted for analysis of BTEX F1-F4, PAHs and metals	1
				04			
2				05		Sample BH24-01-05 submitted for analysis of BTEX F1-F4, PAHs and metals	2
3		CLAY and SILT - brown, some sand, firm, moist, medium plasticity		06			3
4				07		Sample BH24-01-07 submitted for analysis of BTEX F1-F4, PAHs and metals	4
5				08			5
6		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY and SILT					6
7		Notes: 1. Soil description is primarily based on visual observation. 2. Borehole backfilled with auger cuttings and bentonite upon completion.					7
8							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.00 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 24-1-16
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC PARCEL C.GPJ UMA.GDT 24-4-2

PROJECT: NEWPCC Parcel C	CLIENT: City of Winnipeg	TESTHOLE NO: **BH24-02**
LOCATION: 5535655, 635431.2		PROJECT NO.: 60660698
CONTRACTOR: Paddock	METHOD: Solid Stem Auger	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT and CLAY - trace of sand, brown, moist, firm, medium plasticity		01			0
				02		Sample BH24-02-02 submitted for analysis of BTEX F1-F4, PAHs and metals	
1				03			1
		CLAY and SILT - dark brown, moist, firm, medium plasticity				Sample BH24-02-04 submitted for analysis of BTEX F1-F4, PAHs and metal4	
2				04			2
				05			
3		CLAY - some silt, dark brown, moist, firm, medium plasticity					3
				06		Sample BH24-02-06 submitted for analysis of BTEX F1-F4, PAHs and metals	
4							4
				07		Sample BH24-02-07 submitted for analysis of BTEX F1-F4, PAHs and metals	
5							5
				08			
6		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					6
		Notes: 1. Soil description is primarily based on visual observation. 2. Borehole backfilled with auger cuttings and bentonite upon completion.					
7							7
8							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.00 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 24-1-16
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC PARCEL C.GPJ UMA.GDT 24-4-2

PROJECT: NEWPCC Parcel C	CLIENT: City of Winnipeg	TESTHOLE NO: **BH24-03**
LOCATION: 5535581, 635358		PROJECT NO.: 60660698
CONTRACTOR: Paddock	METHOD: Solid Stem Auger	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT and CLAY - trace of sand, brown, moist, firm, medium plasticity		01		Sample BH24-03-01 submitted for analysis of BTEX F1-F4, PAHs and metals	0
1				02			1
				03		Sample BH24-03-03 submitted for analysis of BTEX F1-F4, PAHs and metals	
2				04			2
				05		Sample BH24-03-05 submitted for analysis of BTEX F1-F4, PAHs and metals	
3		CLAY and SILT - dark brown, moist, firm, medium plasticity		06			3
4							4
				07		Sample BH24-03-07 submitted for analysis of BTEX F1-F4, PAHs and metals	
5							5
				08			
6		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY					6
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. Borehole backfilled with auger cuttings and bentonite upon completion.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.00 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 24-1-16
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC PARCEL C.GPJ UMA.GDT 24-4-2

PROJECT: NEWPCC Parcel C	CLIENT: City of Winnipeg	TESTHOLE NO: **BH24-04**
LOCATION: 5535682, 635545.9		PROJECT NO.: 60660698
CONTRACTOR: Paddock	METHOD: Solid Stem Auger	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT - some clay, light brown, moist, firm, medium plasticity		01			0
1				02		Sample BH24-04-02 submitted for analysis of BTEX F1-F4, PAHs and metals	1
				03			
2		CLAY and SILT - brown, moist, firm, medium plasticity		04		Sample BH24-04-04 submitted for analysis of BTEX F1-F4, PAHs and metals	2
3				05			3
				06		Sample BH24-04-06 submitted for analysis of BTEX F1-F4, PAHs and metals	
4							4
				07		Sample BH24-04-07 submitted for analysis of BTEX F1-F4, PAHs and metals	
5							5
				08			
6		END OF BOREHOLE @ 6.1 M BELOW GROUND SURFACE IN CLAY AND SILT					6
7							7
8							

Notes:
1. Soil description is primarily based on visual observation.
2. Borehole backfilled with auger cuttings and bentonite upon completion.

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.00 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 24-1-16
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC PARCEL C.GPJ UMA.GDT 24-4-2

PROJECT: NEWPCC Parcel C	CLIENT: City of Winnipeg	TESTHOLE NO: **BH24-05**
LOCATION: 5535613, 635475.1		PROJECT NO.: 60660698
CONTRACTOR: Paddock	METHOD: Solid Stem Auger	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT - some clay, light brown, moist, firm, low plasticity		01		Sample BH24-05-01 submitted for analysis of BTEX F1-F4, PAHs and metals	0
1				02			1
				03		Sample BH24-05-03 submitted for analysis of BTEX F1-F4, PAHs and metals	
		- wet, soft, medium plasticity below 1.5 m		04			
2							2
				05		Sample BH24-05-05 submitted for analysis of BTEX F1-F4, PAHs and metals	
3							3
		CLAY and SILT - brown, moist, firm, medium plasticity		06			
4							4
				07		Sample BH24-05-07 submitted for analysis of BTEX F1-F4, PAHs and metals	
5				08			5
6		END OF BOREHOLE @ 6.1 M IN CLAY AND SILT					6
		Notes: 1. Soil description is primarily based on visual observation. 2. Borehole backfilled with auger cuttings and bentonite upon completion. 3. DUP-01 associated with BH24-05-07.					
7							7
8							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.00 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 24-1-16
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC PARCEL C.GPJ UMA.GDT 24-4-2

PROJECT: NEWPCC Parcel C	CLIENT: City of Winnipeg	TESTHOLE NO: **BH24-06**
LOCATION: 5535538, 635402.7		PROJECT NO.: 60660698
CONTRACTOR: Paddock	METHOD: Solid Stem Auger	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT - some clay, trace sand, brown, moist, soft, low plasticity		01			0
1				02		Sample BH24-06-02 submitted for analysis of BTEX F1-F4, PAHs and metals	1
				03			
				04		Sample BH24-06-04 submitted for analysis of BTEX F1-F4, PAHs and metals	
2		SILT and CLAY - brown, moist, firm, medium plasticity		05			2
3		CLAY and SILT - dark brown, moist, firm, medium plasticity		06		Sample BH24-06-06 submitted for analysis of BTEX F1-F4, PAHs and metals	3
4							4
				07		Sample BH24-06-07 submitted for analysis of BTEX F1-F4, PAHs and metals	
5							5
				08			
6		END OF BOREHOLE @ 6.1 M IN CLAY AND SILT					6
		Notes: 1. Soil description is primarily based on visual observation. 2. Borehole backfilled with auger cuttings and bentonite upon completion.					
7							7
8							

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC PARCEL C.GPJ UMA.GDT 24-4-2

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 6.00 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 24-1-16
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

PROJECT: NEWPCC Parcel C	CLIENT: City of Winnipeg	TESTHOLE NO: **BH24-07**
LOCATION: 5535698, 635247.1		PROJECT NO.: 60660698
CONTRACTOR: Paddock	METHOD: Solid Stem Auger	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT - some clay, brown, moist, firm, medium plasticity		01			0
				02		Sample BH24-07-02 submitted for analysis of BTEX F1-F4, PAHs and metals	
1				03			1
		SILT and CLAY - brown, moist, firm, medium plasticity		04			
2		CLAY - some silt, dark brown, moist, stiff, medium plasticity		05		Sample BH24-07-05 submitted for analysis of BTEX F1-F4, PAHs and metals	2
3				06			3
4				07			4
5		END OF BOREHOLE @ 4.5 M IN CLAY Notes: 1. Soil description is primarily based on visual observation. 2. Borehole backfilled with auger cuttings and bentonite upon completion.					5
6							

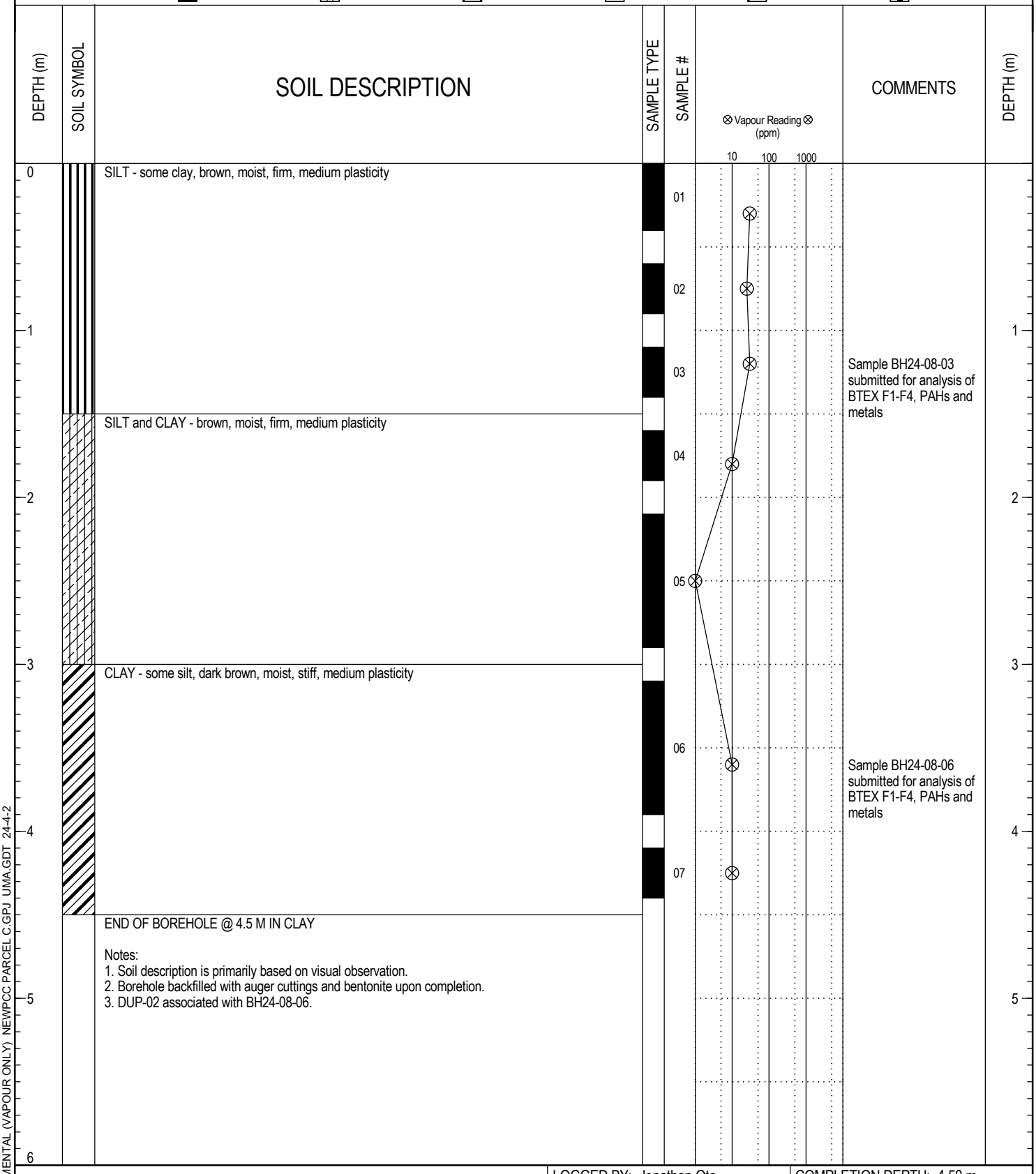
AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.50 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 24-1-16
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC PARCEL C.GPJ UMA.GDT 24-4-2

PROJECT: NEWPCC Parcel C	CLIENT: City of Winnipeg	TESTHOLE NO: **BH24-08**
LOCATION: 5535720, 635214.8		PROJECT NO.: 60660698
CONTRACTOR: Paddock	METHOD: Solid Stem Auger	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE



Notes:
1. Soil description is primarily based on visual observation.
2. Borehole backfilled with auger cuttings and bentonite upon completion.
3. DUP-02 associated with BH24-08-06.

AECOM	LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.50 m
	REVIEWED BY: Jen Murray	COMPLETION DATE: 24-1-16
	PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC PARCEL C.GPJ UMA.GDT 24-4-2

PROJECT: NEWPCC Parcel C	CLIENT: City of Winnipeg	TESTHOLE NO: **BH24-09**
LOCATION: 5535440, 635213.5		PROJECT NO.: 60660698
CONTRACTOR: Paddock	METHOD: Solid Stem Auger	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ⊘ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT and CLAY - dark brown, moist, firm, medium plasticity		01			0
				02			
1				03		Sample BH24-09-03 submitted for analysis of BTEX F1-F4, PAHs and metals	1
		SILT - some clay, light brown, moist, soft, medium plasticity		04			
2							2
				05		Sample BH24-09-05 submitted for analysis of BTEX F1-F4, PAHs and metals	
3		CLAY - some silt, brown, moist, stiff, medium plasticity					3
				06			
4							4
				07			
		END OF BOREHOLE @ 4.5 M BELOW GROUND SURFACE IN CLAY					
5		Notes: 1. Soil description is primarily based on visual observation. 2. Borehole backfilled with auger cuttings and bentonite upon completion. 3. DUP-03 associated with BH24-09-03.					5
6							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.50 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 24-1-16
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC PARCEL C.GPJ UMA.GDT 24-4-2

PROJECT: NEWPCC Parcel C	CLIENT: City of Winnipeg	TESTHOLE NO: **BH24-10**
LOCATION: 5535471, 635160.7		PROJECT NO.: 60660698
CONTRACTOR: Paddock	METHOD: Solid Stem Auger	ELEVATION (m):

SAMPLE TYPE ■ GRAB ▥ SHELBY TUBE ☒ SPLIT SPOON ▤ BULK ▨ NO RECOVERY ◧ CORE

DEPTH (m)	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	⊗ Vapour Reading ⊗ (ppm) 10 100 1000	COMMENTS	DEPTH (m)
0		SILT and CLAY - brown, moist, firm, medium plasticity		01			0
				02		Sample BH24-10-02 submitted for analysis of BTEX F1-F4, PAHs and metals	
1				03			1
				04		Sample BH24-10-04 submitted for analysis of BTEX F1-F4, PAHs and metals	
2		CLAY and SILT - dark brown, moist, stiff, medium plasticity		05			2
3				06			3
4		END OF BOREHOLE @ 4.5 M BELOW GROUND SURFACE IN CLAY Notes: 1. Soil description is primarily based on visual observation. 2. Borehole backfilled with auger cuttings and bentonite upon completion.		07			4
5							5
6							

AECOM

LOGGED BY: Jonathan Ota	COMPLETION DEPTH: 4.50 m
REVIEWED BY: Jen Murray	COMPLETION DATE: 24-1-16
PROJECT ENGINEER: Kimber Osiowy	Page 1 of 1

ENVIRONMENTAL (VAPOUR ONLY) NEWPCC PARCEL C.GPJ UMA.GDT 24-4-2

Appendix C Laboratory Analytical Reports

CERTIFICATE OF ANALYSIS

Work Order	: **WP2401273**	Page	: 1 of 30
Client	: **AECOM Canada Ltd.**	Laboratory	: ALS Environmental - Winnipeg
Contact	: Jonathan Ota	Account Manager	: Judy Dalmaijer
Address	: 99 Commerce Drive Winnipeg MB Canada R3P 0Y7	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4
Telephone	: 204 477 5381	Telephone	: +1 204 255 9720
Project	: 60660698	Date Samples Received	: 17-Jan-2024 13:10
PO	: ----	Date Analysis Commenced	: 18-Jan-2024
C-O-C number	: ----	Issue Date	: 24-Jan-2024 16:24
Sampler	: ----		
Site	: ----		
Quote number	: 60660698		
No. of samples received	: 35		
No. of samples analysed	: 35		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Dung Hoang		Organics, Winnipeg, Manitoba
Gerry Vera	Analyst	Organics, Winnipeg, Manitoba
Greg Pokocky	Manager - Inorganics	Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Organics, Waterloo, Ontario
Michelle Michalchuk	Analyst	Organics, Winnipeg, Manitoba
Niki Goebel		Metals, Waterloo, Ontario
Simrankaur Kaur		Organics, Winnipeg, Manitoba

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances

LOR: Limit of Reporting (detection limit).

Unit	*Description*
-	no units
%	percent
mg/kg	milligrams per kilogram

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-01-01	BH24-01-03	BH24-01-05	BH24-01-07	BH24-02-02
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-001	WP2401273-002	WP2401273-003	WP2401273-004	WP2401273-005
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		23.6	30.3	33.2	27.8	19.1
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		11600	18800	25100	17000	9000
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.20	0.31	0.49	0.32	0.16
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		4.07	6.30	9.08	6.38	3.26
Barium	7440-39-3	E440/WT	0.50	mg/kg		95.7	156	207	150	64.6
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		0.48	0.85	1.05	0.72	0.34
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		<0.20	0.21	0.29	<0.20	<0.20
Boron	7440-42-8	E440/WT	5.0	mg/kg		14.5	19.2	19.3	17.2	13.3
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.145	0.185	0.269	0.193	0.103
Calcium	7440-70-2	E440/WT	50	mg/kg		87500	57400	34800	62100	99800
Chromium	7440-47-3	E440/WT	0.50	mg/kg		25.3	38.1	45.9	33.1	19.9
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		6.95	12.2	14.0	9.57	4.91
Copper	7440-50-8	E440/WT	0.50	mg/kg		15.6	23.9	32.4	22.5	12.1
Iron	7439-89-6	E440/WT	50	mg/kg		14600	23400	30600	22000	11900
Lead	7439-92-1	E440/WT	0.50	mg/kg		6.43	10.0	13.4	8.96	5.16
Lithium	7439-93-2	E440/WT	2.0	mg/kg		17.7	27.4	29.2	21.4	11.9
Magnesium	7439-95-4	E440/WT	20	mg/kg		51800	36800	20800	35700	60100
Manganese	7439-96-5	E440/WT	1.0	mg/kg		376	511	511	414	313
Mercury	7439-97-6	E510/WT	0.0050	mg/kg		0.0161	0.0259	0.0366	0.0273	0.0136
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.68	0.94	1.26	0.94	0.25
Nickel	7440-02-0	E440/WT	0.50	mg/kg		20.5	32.1	40.5	27.6	15.2
Phosphorus	7723-14-0	E440/WT	50	mg/kg		418	460	548	474	414
Potassium	7440-09-7	E440/WT	100	mg/kg		2250	3640	4550	3120	1700
Selenium	7782-49-2	E440/WT	0.20	mg/kg		<0.20	0.41	0.59	0.34	<0.20
Silver	7440-22-4	E440/WT	0.10	mg/kg		<0.10	0.12	0.14	<0.10	<0.10
Sodium	7440-23-5	E440/WT	50	mg/kg		800	882	773	747	287
Strontium	7440-24-6	E440/WT	0.50	mg/kg		56.8	64.9	83.0	64.8	44.8
Sulfur	7704-34-9	E440/WT	1000	mg/kg		1000	1700	3900	3200	<1000

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-01-01	BH24-01-03	BH24-01-05	BH24-01-07	BH24-02-02
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-001	WP2401273-002	WP2401273-003	WP2401273-004	WP2401273-005
						Result	Result	Result	Result	Result
Metals										
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.166	0.259	0.328	0.222	0.140
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/WT	1.0	mg/kg		338	372	222	262	430
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		1.18	1.66	2.06	1.50	0.661
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		38.0	59.6	77.6	54.9	29.5
Zinc	7440-66-6	E440/WT	2.0	mg/kg		34.0	55.5	77.7	51.9	23.0
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		12.9	17.1	17.5	14.9	11.6
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		<0.10	<0.10	0.14	<0.10	<0.10
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		97.9	98.5	100	104	106
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		83.2	76.1	79.8	94.3	84.8

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-01-01	BH24-01-03	BH24-01-05	BH24-01-07	BH24-02-02
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-001	WP2401273-002	WP2401273-003	WP2401273-004	WP2401273-005
						Result	Result	Result	Result	Result
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		78.8	74.2	86.5	98.8	80.7
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		100.0	85.6	99.2	116	93.8
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20

Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BH24-01-01	BH24-01-03	BH24-01-05	BH24-01-07	BH24-02-02
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		WP2401273-001	WP2401273-002	WP2401273-003	WP2401273-004	WP2401273-005
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		93.2	84.6	97.4	94.9	88.2
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		101	90.6	102	100	93.3
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		97.0	87.4	105	96.3	92.0
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		102	92.2	106	103	95.8

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-02-04	BH24-02-06	BH24-02-07	BH24-03-01	BH24-03-03
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-006	WP2401273-007	WP2401273-008	WP2401273-009	WP2401273-010
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		23.8	34.6	37.7	31.4	24.8
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		19100	23000	26700	23700	14800
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.29	0.48	0.51	0.46	0.24
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		5.65	8.85	10.5	8.51	4.70
Barium	7440-39-3	E440/WT	0.50	mg/kg		173	190	154	197	117
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		0.76	1.11	1.23	1.04	0.54
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		0.22	0.33	0.34	0.27	<0.20
Boron	7440-42-8	E440/WT	5.0	mg/kg		17.4	14.2	18.0	17.4	15.2
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.157	0.487	0.252	0.245	0.167
Calcium	7440-70-2	E440/WT	50	mg/kg		53400	26100	25000	45900	70700
Chromium	7440-47-3	E440/WT	0.50	mg/kg		40.5	45.7	47.3	44.0	29.1
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		11.0	14.6	15.4	13.6	7.83
Copper	7440-50-8	E440/WT	0.50	mg/kg		25.5	37.1	32.5	29.2	18.8
Iron	7439-89-6	E440/WT	50	mg/kg		23800	31400	33400	28500	17800
Lead	7439-92-1	E440/WT	0.50	mg/kg		10.3	14.5	15.5	12.6	7.54
Lithium	7439-93-2	E440/WT	2.0	mg/kg		27.0	27.8	28.9	26.0	18.9
Magnesium	7439-95-4	E440/WT	20	mg/kg		33900	15900	14500	27000	44600
Manganese	7439-96-5	E440/WT	1.0	mg/kg		434	500	484	496	341
Mercury	7439-97-6	E510/WT	0.0050	mg/kg		0.0246	0.0419	0.0432	0.0325	0.0196
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.65	1.21	1.35	1.35	0.58
Nickel	7440-02-0	E440/WT	0.50	mg/kg		33.5	43.1	43.4	41.1	22.8
Phosphorus	7723-14-0	E440/WT	50	mg/kg		515	530	542	464	420
Potassium	7440-09-7	E440/WT	100	mg/kg		4030	4290	4600	4030	2790
Selenium	7782-49-2	E440/WT	0.20	mg/kg		<0.20	0.74	0.34	<0.20	<0.20
Silver	7440-22-4	E440/WT	0.10	mg/kg		0.11	0.14	0.14	0.10	<0.10
Sodium	7440-23-5	E440/WT	50	mg/kg		439	335	348	474	412
Strontium	7440-24-6	E440/WT	0.50	mg/kg		58.0	80.2	85.8	70.8	58.5
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.290	0.335	0.327	0.299	0.211

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-02-04	BH24-02-06	BH24-02-07	BH24-03-01	BH24-03-03
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-006	WP2401273-007	WP2401273-008	WP2401273-009	WP2401273-010
						Result	Result	Result	Result	Result
Metals										
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/WT	1.0	mg/kg		432	143	144	179	356
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		1.10	1.92	1.96	1.34	0.973
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		59.9	67.4	78.5	73.9	45.4
Zinc	7440-66-6	E440/WT	2.0	mg/kg		55.5	84.4	85.3	70.9	42.6
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		17.5	15.9	15.4	14.8	14.2
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		<0.10	0.10	0.13	<0.10	<0.10
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		104	108	106	106	105
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		79.6	74.3	75.2	73.7	77.9
Volatile Organic Compounds Surrogates										

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-02-04	BH24-02-06	BH24-02-07	BH24-03-01	BH24-03-03
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-006	WP2401273-007	WP2401273-008	WP2401273-009	WP2401273-010
						Result	Result	Result	Result	Result
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		72.7	77.6	72.1	71.8	71.4
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		91.6	82.5	81.7	78.9	82.9
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20

Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BH24-02-04	BH24-02-06	BH24-02-07	BH24-03-01	BH24-03-03
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		WP2401273-006	WP2401273-007	WP2401273-008	WP2401273-009	WP2401273-010
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		96.1	95.6	104	90.9	84.1
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		100	101	108	104	100.0
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		101	106	112	86.4	82.7
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		101	103	113	96.3	91.4

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-03-05	BH24-03-07	BH24-04-02	BH24-04-04	BH24-04-06
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-011	WP2401273-012	WP2401273-013	WP2401273-014	WP2401273-015
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		27.0	33.7	22.8	18.3	31.2
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		20400	25400	10800	8490	25800
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.27	0.52	0.18	0.15	0.45
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		5.75	10.9	3.56	3.07	9.07
Barium	7440-39-3	E440/WT	0.50	mg/kg		178	263	89.3	69.7	186
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		0.72	1.14	0.41	0.31	1.11
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		0.21	0.32	<0.20	<0.20	0.30
Boron	7440-42-8	E440/WT	5.0	mg/kg		17.7	15.1	14.9	13.6	19.2
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.209	0.296	0.142	0.121	0.283
Calcium	7440-70-2	E440/WT	50	mg/kg		56000	21700	95800	97300	33400
Chromium	7440-47-3	E440/WT	0.50	mg/kg		42.7	47.4	23.8	19.2	48.5
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		11.7	15.2	5.97	4.81	14.0
Copper	7440-50-8	E440/WT	0.50	mg/kg		27.8	35.4	14.0	11.6	33.0
Iron	7439-89-6	E440/WT	50	mg/kg		25400	31800	14100	11500	31100
Lead	7439-92-1	E440/WT	0.50	mg/kg		10.3	14.8	5.69	4.87	13.1
Lithium	7439-93-2	E440/WT	2.0	mg/kg		32.1	28.0	17.2	14.2	32.4
Magnesium	7439-95-4	E440/WT	20	mg/kg		38700	14800	59000	58600	19600
Manganese	7439-96-5	E440/WT	1.0	mg/kg		505	520	287	288	486
Mercury	7439-97-6	E510/WT	0.0050	mg/kg		0.0217	0.0419	0.0135	0.0132	0.0349
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.63	1.12	0.56	0.54	1.24
Nickel	7440-02-0	E440/WT	0.50	mg/kg		34.6	43.6	17.2	14.5	40.7
Phosphorus	7723-14-0	E440/WT	50	mg/kg		540	518	383	383	553
Potassium	7440-09-7	E440/WT	100	mg/kg		4450	4640	1870	1600	4810
Selenium	7782-49-2	E440/WT	0.20	mg/kg		0.31	0.80	<0.20	<0.20	0.74
Silver	7440-22-4	E440/WT	0.10	mg/kg		0.11	0.14	<0.10	<0.10	0.15
Sodium	7440-23-5	E440/WT	50	mg/kg		614	521	903	906	2060
Strontium	7440-24-6	E440/WT	0.50	mg/kg		63.6	81.5	63.2	51.6	83.5
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	<1000	<1000	11100
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.310	0.315	0.151	0.125	0.320

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-03-05	BH24-03-07	BH24-04-02	BH24-04-04	BH24-04-06
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-011	WP2401273-012	WP2401273-013	WP2401273-014	WP2401273-015
						Result	Result	Result	Result	Result
Metals										
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/WT	1.0	mg/kg		589	135	374	358	182
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		1.34	1.95	1.50	1.35	2.72
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		60.2	74.4	35.1	28.4	78.4
Zinc	7440-66-6	E440/WT	2.0	mg/kg		63.0	84.0	30.2	23.6	79.4
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		19.0	15.9	13.0	11.7	20.5
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		<0.10	0.12	<0.10	<0.10	0.13
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		104	106	104	108	108
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		70.4	72.3	82.2	75.8	75.5
Volatile Organic Compounds Surrogates										

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-03-05	BH24-03-07	BH24-04-02	BH24-04-04	BH24-04-06
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-011	WP2401273-012	WP2401273-013	WP2401273-014	WP2401273-015
						Result	Result	Result	Result	Result
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		71.0	71.3	71.5	72.6	72.0
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		77.4	85.2	87.1	86.2	78.2
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20

Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BH24-03-05	BH24-03-07	BH24-04-02	BH24-04-04	BH24-04-06
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		WP2401273-011	WP2401273-012	WP2401273-013	WP2401273-014	WP2401273-015
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		87.7	92.0	89.3	88.2	84.2
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		99.4	99.4	101	107	93.0
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		83.1	89.5	81.7	78.3	76.0
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		92.4	98.0	94.7	93.4	88.7

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-04-07	BH24-05-01	BH24-05-03	BH24-05-05	BH24-05-07
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-016	WP2401273-017	WP2401273-018	WP2401273-019	WP2401273-020
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		34.7	23.5	22.8	22.5	33.6
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		25100	21500	12100	9330	28300
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.48	0.33	0.19	0.15	0.41
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		9.52	6.45	3.81	3.22	7.65
Barium	7440-39-3	E440/WT	0.50	mg/kg		186	157	87.3	75.5	228
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		1.09	0.79	0.49	0.34	1.15
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		0.30	0.21	<0.20	<0.20	0.30
Boron	7440-42-8	E440/WT	5.0	mg/kg		17.9	18.6	15.8	12.4	18.3
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.278	0.199	0.140	0.122	0.257
Calcium	7440-70-2	E440/WT	50	mg/kg		29500	61000	101000	87700	21500
Chromium	7440-47-3	E440/WT	0.50	mg/kg		47.4	41.0	24.9	21.0	56.1
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		14.9	10.7	6.09	5.23	15.5
Copper	7440-50-8	E440/WT	0.50	mg/kg		37.5	23.8	14.4	13.1	37.3
Iron	7439-89-6	E440/WT	50	mg/kg		31200	24400	14800	12800	32200
Lead	7439-92-1	E440/WT	0.50	mg/kg		14.0	11.0	6.41	5.28	13.8
Lithium	7439-93-2	E440/WT	2.0	mg/kg		29.6	25.3	16.3	13.3	33.6
Magnesium	7439-95-4	E440/WT	20	mg/kg		17800	36300	56100	56300	18800
Manganese	7439-96-5	E440/WT	1.0	mg/kg		509	437	289	297	553
Mercury	7439-97-6	E510/WT	0.0050	mg/kg		0.0374	0.0272	0.0150	0.0147	0.0347
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		1.31	0.59	0.37	0.34	1.32
Nickel	7440-02-0	E440/WT	0.50	mg/kg		41.2	31.8	17.7	15.6	48.9
Phosphorus	7723-14-0	E440/WT	50	mg/kg		519	446	373	402	609
Potassium	7440-09-7	E440/WT	100	mg/kg		4480	3660	2120	1800	5610
Selenium	7782-49-2	E440/WT	0.20	mg/kg		0.43	<0.20	<0.20	<0.20	0.58
Silver	7440-22-4	E440/WT	0.10	mg/kg		0.13	0.11	<0.10	<0.10	0.14
Sodium	7440-23-5	E440/WT	50	mg/kg		1960	480	380	345	511
Strontium	7440-24-6	E440/WT	0.50	mg/kg		83.0	68.6	61.9	45.8	78.8
Sulfur	7704-34-9	E440/WT	1000	mg/kg		8400	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.323	0.282	0.165	0.145	0.348

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-04-07	BH24-05-01	BH24-05-03	BH24-05-05	BH24-05-07
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-016	WP2401273-017	WP2401273-018	WP2401273-019	WP2401273-020
						Result	Result	Result	Result	Result
Metals										
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/WT	1.0	mg/kg		160	347	354	390	234
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		2.51	1.05	0.787	0.647	1.77
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		78.3	66.1	38.2	31.1	84.5
Zinc	7440-66-6	E440/WT	2.0	mg/kg		82.8	56.8	32.6	27.1	81.9
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		18.9	14.6	12.2	11.8	19.0
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		0.10	0.12	<0.10	<0.10	0.18
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		86.3	111	111	107	104
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		73.0	88.3	70.3	71.5	96.7
Volatile Organic Compounds Surrogates										

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-04-07	BH24-05-01	BH24-05-03	BH24-05-05	BH24-05-07
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-016	WP2401273-017	WP2401273-018	WP2401273-019	WP2401273-020
						Result	Result	Result	Result	Result
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		71.7	74.0	71.1	74.8	90.4
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		88.5	96.1	86.2	76.6	118
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20

Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BH24-04-07	BH24-05-01	BH24-05-03	BH24-05-05	BH24-05-07
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		WP2401273-016	WP2401273-017	WP2401273-018	WP2401273-019	WP2401273-020
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		92.5	91.5	91.7	95.7	92.6
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		106	109	116	119	101
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		79.2	87.9	85.1	85.1	76.0
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		99.0	96.7	97.8	99.6	97.3

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-06-02	BH24-06-04	BH24-06-06	BH24-06-07	BH24-07-02
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-021	WP2401273-022	WP2401273-023	WP2401273-024	WP2401273-025
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		21.3	22.3	29.5	33.6	28.8
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		13800	12600	29400	28100	16100
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.22	0.16	0.46	0.43	0.23
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		4.83	3.81	10.5	9.26	5.26
Barium	7440-39-3	E440/WT	0.50	mg/kg		98.8	90.9	307	284	120
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		0.57	0.48	1.18	1.27	0.60
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		<0.20	<0.20	0.27	0.28	<0.20
Boron	7440-42-8	E440/WT	5.0	mg/kg		18.8	17.2	26.7	26.2	20.3
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.169	0.147	0.268	0.229	0.148
Calcium	7440-70-2	E440/WT	50	mg/kg		98600	93000	49700	30400	115000
Chromium	7440-47-3	E440/WT	0.50	mg/kg		29.7	25.1	56.7	49.3	28.9
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		7.68	6.39	15.9	14.8	7.67
Copper	7440-50-8	E440/WT	0.50	mg/kg		17.2	15.4	38.4	31.4	16.5
Iron	7439-89-6	E440/WT	50	mg/kg		17100	14900	35700	32000	16500
Lead	7439-92-1	E440/WT	0.50	mg/kg		7.42	6.48	14.8	14.0	7.43
Lithium	7439-93-2	E440/WT	2.0	mg/kg		19.9	18.8	41.2	33.9	21.3
Magnesium	7439-95-4	E440/WT	20	mg/kg		61700	57000	32400	19100	56900
Manganese	7439-96-5	E440/WT	1.0	mg/kg		357	326	786	549	357
Mercury	7439-97-6	E510/WT	0.0050	mg/kg		0.0205	0.0177	0.0372	0.0440	0.0209
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.54	0.41	1.09	1.02	0.31
Nickel	7440-02-0	E440/WT	0.50	mg/kg		21.9	18.8	46.9	41.1	22.6
Phosphorus	7723-14-0	E440/WT	50	mg/kg		509	445	736	564	423
Potassium	7440-09-7	E440/WT	100	mg/kg		2730	2440	5660	5050	2540
Selenium	7782-49-2	E440/WT	0.20	mg/kg		<0.20	<0.20	0.23	0.46	<0.20
Silver	7440-22-4	E440/WT	0.10	mg/kg		<0.10	<0.10	0.13	0.11	<0.10
Sodium	7440-23-5	E440/WT	50	mg/kg		353	349	558	368	438
Strontium	7440-24-6	E440/WT	0.50	mg/kg		53.0	42.0	76.5	75.2	68.8
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	<1000	<1000	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.165	0.162	0.340	0.274	0.170

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-06-02	BH24-06-04	BH24-06-06	BH24-06-07	BH24-07-02
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-021	WP2401273-022	WP2401273-023	WP2401273-024	WP2401273-025
						Result	Result	Result	Result	Result
Metals										
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/WT	1.0	mg/kg		388	496	549	219	404
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		0.851	0.751	1.57	1.54	1.46
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		46.4	38.3	88.0	87.2	48.9
Zinc	7440-66-6	E440/WT	2.0	mg/kg		37.6	31.9	89.7	83.2	34.5
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		12.8	12.2	18.8	13.3	9.7
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		0.14	0.15	0.21	0.27	0.14
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		104	97.7	101	99.1	98.4
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		75.3	70.5	73.1	71.9	75.2
Volatile Organic Compounds Surrogates										

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-06-02	BH24-06-04	BH24-06-06	BH24-06-07	BH24-07-02
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-021	WP2401273-022	WP2401273-023	WP2401273-024	WP2401273-025
						Result	Result	Result	Result	Result
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		71.2	80.8	71.1	70.3	72.2
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		86.8	94.5	82.3	91.0	88.9
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20

Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BH24-06-02	BH24-06-04	BH24-06-06	BH24-06-07	BH24-07-02
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		WP2401273-021	WP2401273-022	WP2401273-023	WP2401273-024	WP2401273-025
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		87.7	90.9	95.3	92.5	87.8
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		103	114	108	98.0	104
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		83.6	82.6	92.0	85.2	80.8
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		93.7	98.7	102	98.7	93.3

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-07-05	BH24-08-03	BH24-08-06	BH24-09-03	BH24-09-05
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-026	WP2401273-027	WP2401273-028	WP2401273-029	WP2401273-030
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		32.0	24.5	33.6	23.3	18.4
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		27600	10600	30600	34000	10000
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.44	0.14	0.42	0.40	0.15
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		10.2	3.38	9.90	9.49	3.18
Barium	7440-39-3	E440/WT	0.50	mg/kg		214	80.1	314	242	65.8
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		1.26	0.40	1.36	1.34	0.37
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		0.28	<0.20	0.29	0.26	<0.20
Boron	7440-42-8	E440/WT	5.0	mg/kg		23.5	16.9	23.8	28.3	17.3
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.230	0.128	0.256	0.240	0.136
Calcium	7440-70-2	E440/WT	50	mg/kg		30000	110000	20300	48200	118000
Chromium	7440-47-3	E440/WT	0.50	mg/kg		51.1	21.3	58.3	56.0	21.2
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		16.5	5.33	13.8	15.0	5.28
Copper	7440-50-8	E440/WT	0.50	mg/kg		33.1	11.8	38.4	31.0	12.3
Iron	7439-89-6	E440/WT	50	mg/kg		32000	12600	35600	33200	12400
Lead	7439-92-1	E440/WT	0.50	mg/kg		14.2	5.47	14.9	13.9	5.54
Lithium	7439-93-2	E440/WT	2.0	mg/kg		34.8	16.8	41.0	40.0	17.1
Magnesium	7439-95-4	E440/WT	20	mg/kg		24500	64400	20000	27400	70800
Manganese	7439-96-5	E440/WT	1.0	mg/kg		548	330	475	559	304
Mercury	7439-97-6	E510/WT	0.0050	mg/kg		0.0827	0.0152	0.0434	0.0371	0.0136
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		1.14	0.27	1.04	0.41	0.36
Nickel	7440-02-0	E440/WT	0.50	mg/kg		44.4	16.4	47.7	44.7	15.8
Phosphorus	7723-14-0	E440/WT	50	mg/kg		611	367	599	534	434
Potassium	7440-09-7	E440/WT	100	mg/kg		5390	1930	5880	4860	1740
Selenium	7782-49-2	E440/WT	0.20	mg/kg		0.73	<0.20	0.56	0.20	<0.20
Silver	7440-22-4	E440/WT	0.10	mg/kg		0.12	<0.10	0.14	0.14	<0.10
Sodium	7440-23-5	E440/WT	50	mg/kg		1050	682	1230	930	492
Strontium	7440-24-6	E440/WT	0.50	mg/kg		65.9	53.4	77.1	75.7	54.3
Sulfur	7704-34-9	E440/WT	1000	mg/kg		1400	<1000	<1000	1400	<1000
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.272	0.122	0.340	0.336	0.132

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-07-05	BH24-08-03	BH24-08-06	BH24-09-03	BH24-09-05
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-026	WP2401273-027	WP2401273-028	WP2401273-029	WP2401273-030
						Result	Result	Result	Result	Result
Metals										
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/WT	1.0	mg/kg		252	349	346	375	469
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		2.17	0.906	2.07	1.90	0.899
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		88.0	32.9	92.8	99.7	31.8
Zinc	7440-66-6	E440/WT	2.0	mg/kg		79.4	26.2	91.2	77.8	25.0
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		14.3	8.4	17.9	13.8	11.6
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		0.24	0.17	0.28	0.24	0.13
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0060	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		94.2	95.3	99.8	97.1	103
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		86.1	80.4	71.8	80.4	81.2
Volatile Organic Compounds Surrogates										

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-07-05	BH24-08-03	BH24-08-06	BH24-09-03	BH24-09-05
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-026	WP2401273-027	WP2401273-028	WP2401273-029	WP2401273-030
						Result	Result	Result	Result	Result
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		86.9	82.9	70.6	74.0	73.2
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		105	104	78.4	86.1	87.3
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-07-05	BH24-08-03	BH24-08-06	BH24-09-03	BH24-09-05
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-026	WP2401273-027	WP2401273-028	WP2401273-029	WP2401273-030
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		95.8	93.2	95.3	89.9	87.8
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		110	105	104	108	116
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		82.7	85.7	92.1	94.5	94.1
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		100	98.2	101	95.0	93.6

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-10-02	BH24-10-04	DUP-01	DUP-02	DUP-03
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-031	WP2401273-032	WP2401273-033	WP2401273-034	WP2401273-035
						Result	Result	Result	Result	Result
Physical Tests										
Moisture	----	E144/WP	0.25	%		21.5	27.8	32.9	34.5	24.8
Metals										
Aluminum	7429-90-5	E440/WT	50	mg/kg		17700	30000	28700	32600	29800
Antimony	7440-36-0	E440/WT	0.10	mg/kg		0.26	0.24	0.37	0.43	0.36
Arsenic	7440-38-2	E440/WT	0.10	mg/kg		5.58	6.12	8.09	9.24	8.26
Barium	7440-39-3	E440/WT	0.50	mg/kg		117	278	260	312	254
Beryllium	7440-41-7	E440/WT	0.10	mg/kg		0.71	0.94	1.36	1.44	1.20
Bismuth	7440-69-9	E440/WT	0.20	mg/kg		<0.20	0.21	0.28	0.30	0.24
Boron	7440-42-8	E440/WT	5.0	mg/kg		20.9	21.8	24.4	25.5	25.8
Cadmium	7440-43-9	E440/WT	0.020	mg/kg		0.201	0.193	0.288	0.257	0.240
Calcium	7440-70-2	E440/WT	50	mg/kg		90200	44600	31500	17000	77600
Chromium	7440-47-3	E440/WT	0.50	mg/kg		33.6	60.0	57.2	59.6	52.0
Cobalt	7440-48-4	E440/WT	0.10	mg/kg		8.58	15.5	16.1	14.7	13.2
Copper	7440-50-8	E440/WT	0.50	mg/kg		19.7	37.8	37.5	38.1	28.8
Iron	7439-89-6	E440/WT	50	mg/kg		19600	32200	31400	34600	30500
Lead	7439-92-1	E440/WT	0.50	mg/kg		8.58	11.7	13.9	14.6	12.5
Lithium	7439-93-2	E440/WT	2.0	mg/kg		24.4	52.5	39.2	39.7	39.5
Magnesium	7439-95-4	E440/WT	20	mg/kg		49300	31500	22700	18000	32400
Manganese	7439-96-5	E440/WT	1.0	mg/kg		463	654	523	488	523
Mercury	7439-97-6	E510/WT	0.0050	mg/kg		0.0241	0.0225	0.0369	0.0438	0.0338
Molybdenum	7439-98-7	E440/WT	0.10	mg/kg		0.49	0.53	1.17	1.03	0.40
Nickel	7440-02-0	E440/WT	0.50	mg/kg		25.0	47.2	49.7	48.4	39.6
Phosphorus	7723-14-0	E440/WT	50	mg/kg		517	664	643	625	531
Potassium	7440-09-7	E440/WT	100	mg/kg		2980	6760	6120	6210	4430
Selenium	7782-49-2	E440/WT	0.20	mg/kg		<0.20	<0.20	0.55	0.35	<0.20
Silver	7440-22-4	E440/WT	0.10	mg/kg		<0.10	0.10	0.12	0.12	0.10
Sodium	7440-23-5	E440/WT	50	mg/kg		376	790	508	1090	832
Strontium	7440-24-6	E440/WT	0.50	mg/kg		72.7	74.4	72.3	82.0	94.3
Sulfur	7704-34-9	E440/WT	1000	mg/kg		<1000	<1000	<1000	<1000	1200
Thallium	7440-28-0	E440/WT	0.050	mg/kg		0.208	0.369	0.294	0.307	0.297

Analytical Results

Sub-Matrix: Soil
(Matrix: Soil/Solid)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-10-02	BH24-10-04	DUP-01	DUP-02	DUP-03
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-031	WP2401273-032	WP2401273-033	WP2401273-034	WP2401273-035
						Result	Result	Result	Result	Result
Metals										
Tin	7440-31-5	E440/WT	2.0	mg/kg		<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	7440-32-6	E440/WT	1.0	mg/kg		441	1220	311	261	354
Tungsten	7440-33-7	E440/WT	0.50	mg/kg		<0.50	<0.50	<0.50	<0.50	<0.50
Uranium	7440-61-1	E440/WT	0.050	mg/kg		0.982	1.19	1.71	2.11	1.77
Vanadium	7440-62-2	E440/WT	0.20	mg/kg		54.7	78.4	88.9	95.1	86.4
Zinc	7440-66-6	E440/WT	2.0	mg/kg		43.8	78.6	81.9	90.7	69.5
Zirconium	7440-67-7	E440/WT	1.0	mg/kg		12.6	22.6	16.6	16.1	14.3
Speciated Metals										
Chromium, hexavalent [Cr VI]	18540-29-9	E532/WT	0.10	mg/kg		0.18	0.19	0.26	0.39	0.21
Volatile Organic Compounds [Fuels]										
Benzene	71-43-2	E611A/WP	0.0050	mg/kg		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Ethylbenzene	100-41-4	E611A/WP	0.015	mg/kg		<0.015	<0.015	<0.015	<0.015	<0.015
Toluene	108-88-3	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Xylene, m+p-	179601-23-1	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylene, o-	95-47-6	E611A/WP	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Xylenes, total	1330-20-7	E611A/WP	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
BTEX, total	----	E611A/WP	0.10	mg/kg		<0.10	<0.10	<0.10	<0.10	<0.10
Hydrocarbons										
Chromatogram to baseline at nC50	n/a	E601.SG/WP	-	-		Yes	Yes	Yes	Yes	Yes
F1 (C6-C10)	----	E581.F1/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10-C16)	----	E601.SG/WP	25	mg/kg		<25	<25	<25	<25	<25
F3 (C16-C34)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
F4 (C34-C50)	----	E601.SG/WP	50	mg/kg		<50	<50	<50	<50	<50
TEH (C10-C50)	n/a	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
TEH (C16-C50)	----	E601.SG/WP	75	mg/kg		<75	<75	<75	<75	<75
F1-BTEX	----	EC580/WP	5.0	mg/kg		<5.0	<5.0	<5.0	<5.0	<5.0
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601.SG/WP	1.0	%		101	96.5	89.8	95.8	96.2
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%		71.2	71.1	74.5	73.0	83.5
Volatile Organic Compounds Surrogates										

Analytical Results

Sub-Matrix: **Soil**
(Matrix: **Soil/Solid**)

Analyte	CAS Number	Method/Lab	LOR	Unit	Client sample ID	BH24-10-02	BH24-10-04	DUP-01	DUP-02	DUP-03
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
						WP2401273-031	WP2401273-032	WP2401273-033	WP2401273-034	WP2401273-035
						Result	Result	Result	Result	Result
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	0.10	%		71.8	71.8	76.7	71.1	72.7
Difluorobenzene, 1,4-	540-36-3	E611A/WP	0.10	%		78.0	81.8	89.4	83.7	98.1
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	208-96-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Acridine	260-94-6	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Anthracene	120-12-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	56-55-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(a)pyrene	50-32-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.075	mg/kg		<0.075	<0.075	<0.075	<0.075	<0.075
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Chrysene	218-01-9	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluoranthene	206-44-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Fluorene	86-73-7	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Methylnaphthalene, 1+2-	----	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.030	mg/kg		<0.030	<0.030	<0.030	<0.030	<0.030
Naphthalene	91-20-3	E641A/WT	0.010	mg/kg		<0.010	<0.010	<0.010	<0.010	<0.010
Phenanthrene	85-01-8	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Pyrene	129-00-0	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
Quinoline	91-22-5	E641A/WT	0.050	mg/kg		<0.050	<0.050	<0.050	<0.050	<0.050
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.065	mg/kg		<0.065	<0.065	<0.065	<0.065	<0.065
IACR (CCME)	----	E641A/WT	0.60	-		<0.60	<0.60	<0.60	<0.60	<0.60
IACR AB (coarse)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
IACR AB (fine)	----	E641A/WT	0.10	-		<0.10	<0.10	<0.10	<0.10	<0.10
PAHs, total (BC Sched 3.4)	n/a	E641A/WT	0.20	mg/kg		<0.20	<0.20	<0.20	<0.20	<0.20

Analytical Results

Sub-Matrix: Soil (Matrix: Soil/Solid)					Client sample ID	BH24-10-02	BH24-10-04	DUP-01	DUP-02	DUP-03
					Client sampling date / time	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00	16-Jan-2024 00:00
Analyte	CAS Number	Method/Lab	LOR	Unit		WP2401273-031	WP2401273-032	WP2401273-033	WP2401273-034	WP2401273-035
						Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons Surrogates										
Acridine-d9	34749-75-2	E641A/WT	0.1	%		88.4	88.8	90.7	91.9	93.2
Chrysene-d12	1719-03-5	E641A/WT	0.1	%		114	111	105	98.7	110
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%		95.0	98.2	95.3	102	102
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%		95.1	95.3	94.8	99.1	100

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **WP2401273**	Page	: 1 of 38
Client	: **AECOM Canada Ltd.**	Laboratory	: ALS Environmental - Winnipeg
Contact	: Jonathan Ota	Account Manager	: Judy Dalmaijer
Address	: 99 Commerce Drive Winnipeg MB Canada R3P 0Y7	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4
Telephone	: 204 477 5381	Telephone	: +1 204 255 9720
Project	: 60660698	Date Samples Received	: 17-Jan-2024 13:10
PO	: ----	Issue Date	: 24-Jan-2024 16:29
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: 60660698		
No. of samples received	: 35		
No. of samples analysed	: 35		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- Duplicate outliers occur - please see following pages for full details.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **Soil/Solid**

Analyte Group	Laboratory sample ID	Client/Ref Sample ID	Analyte	CAS Number	Method	Result	Limits	Comment
Duplicate (DUP) RPDs								
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Anthracene	120-12-7	E641A	79.4 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Benz(a)anthracene	56-55-3	E641A	101 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Benzo(a)pyrene	50-32-8	E641A	75.4 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Benzo(b+j)fluoranthene	n/a	E641A	78.7 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Benzo(g,h,i)perylene	191-24-2	E641A	54.2 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Benzo(k)fluoranthene	207-08-9	E641A	82.6 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Chrysene	218-01-9	E641A	85.1 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Fluoranthene	206-44-0	E641A	104 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	63.7 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Phenanthrene	85-01-8	E641A	89.6 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.
Polycyclic Aromatic Hydrocarbons	Anonymous	Anonymous	Pyrene	129-00-0	E641A	99.4 % DUP-H	50%	Duplicate RPD does not meet the DQO for this test.

Result Qualifiers

Qualifier	Description
DUP-H	*Duplicate results outside ALS DQO, due to sample heterogeneity.*

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-01-01	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-01-03	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-01-05	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-01-07	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-02-02	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-02-04	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-02-06	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-02-07	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-03-01	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-03-03	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-03-05	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-03-07	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-04-02	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-04-04	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-04-06	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-04-07	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-05-01	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-05-03	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-05-05	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-05-07	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-06-02	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-06-04	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-06-06	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-06-07	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial BH24-07-02	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH24-07-05	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH24-08-03	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH24-08-06	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH24-09-03	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH24-09-05	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH24-10-02	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
BH24-10-04	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
DUP-01	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
DUP-02	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID										
Glass soil methanol vial										
DUP-03	E581.F1	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-01-01	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-01-03	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-01-05	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-01-07	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-02-02	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-02-04	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-02-06	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-02-07	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-03-01	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-03-03	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-03-05	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-03-07	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-04-02	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-04-04	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-04-06	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-04-07	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-05-01	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-05-03	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-05-05	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-05-07	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-06-02	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-06-04	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-06-06	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-06-07	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-07-02	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-07-05	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-08-03	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-08-06	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-09-03	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-09-05	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-10-02	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
BH24-10-04	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
DUP-01	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
DUP-02	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID										
Glass soil jar/Teflon lined cap										
DUP-03	E601.SG	16-Jan-2024	18-Jan-2024	14 days	3 days	✓	19-Jan-2024	40 days	1 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-06-02	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-06-04	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-06-06	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-06-07	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-07-02	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-07-05	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-08-03	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-08-06	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-09-03	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓

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Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-09-05	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-10-02	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-10-04	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
DUP-01	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
DUP-02	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
DUP-03	E510	16-Jan-2024	22-Jan-2024	28 days	7 days	✓	23-Jan-2024	28 days	7 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-01-01	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-01-03	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-01-05	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-01-07	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-02-02	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-02-04	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-02-06	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-02-07	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-03-01	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-03-03	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-03-05	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-03-07	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-04-02	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-04-04	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-04-06	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-04-07	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-05-01	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-05-03	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-05-05	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Mercury in Soil/Solid by CVAAS										
Glass soil jar/Teflon lined cap										
BH24-05-07	E510	16-Jan-2024	23-Jan-2024	28 days	7 days	✓	24-Jan-2024	28 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-06-02	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-06-04	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-06-06	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-06-07	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-07-02	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-07-05	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-08-03	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-08-06	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-09-03	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-09-05	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-10-02	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-10-04	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
DUP-01	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
DUP-02	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
DUP-03	E440	16-Jan-2024	22-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	7 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-01-01	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-01-03	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-01-05	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-01-07	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-02-02	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-02-04	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-02-06	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-02-07	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-03-01	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-03-03	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-03-05	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-03-07	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-04-02	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-04-04	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-04-06	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-04-07	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-05-01	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-05-03	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-05-05	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Metals : Metals in Soil/Solid by CRC ICPMS										
Glass soil jar/Teflon lined cap										
BH24-05-07	E440	16-Jan-2024	23-Jan-2024	180 days	7 days	✓	23-Jan-2024	180 days	8 days	✓
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-01-01	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-01-03	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-01-05	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-01-07	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-02-02	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-02-04	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-02-06	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-02-07	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-03-01	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-03-03	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-03-05	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-03-07	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-04-02	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-04-04	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-04-06	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-04-07	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-05-01	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-05-03	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-05-05	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-05-07	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	6 days	

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-06-02	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-06-04	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-06-06	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-06-07	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-07-02	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-07-05	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-08-03	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-08-06	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-09-03	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	

Matrix: **Soil/Solid**

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Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-09-05	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-10-02	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
BH24-10-04	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
DUP-01	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
DUP-02	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Physical Tests : Moisture Content by Gravimetry										
Glass soil jar/Teflon lined cap										
DUP-03	E144	16-Jan-2024	----	----	----		22-Jan-2024	----	7 days	
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-03-01	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-03-03	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-03-05	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-03-07	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-04-02	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-04-04	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-04-06	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-04-07	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-05-01	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-05-03	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-05-05	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-05-07	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-06-02	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-06-04	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
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BH24-06-07	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-07-02	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-07-05	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-08-03	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-08-06	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-01-01	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	1 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-01-03	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-01-05	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
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Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-02-02	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	1 days	✓
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Glass soil jar/Teflon lined cap										
BH24-02-07	E641A	16-Jan-2024	21-Jan-2024	14 days	6 days	✓	22-Jan-2024	40 days	1 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-09-03	E641A	16-Jan-2024	22-Jan-2024	14 days	7 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-09-05	E641A	16-Jan-2024	22-Jan-2024	14 days	7 days	✓	22-Jan-2024	40 days	0 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-10-02	E641A	16-Jan-2024	22-Jan-2024	14 days	7 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
BH24-10-04	E641A	16-Jan-2024	22-Jan-2024	14 days	7 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
DUP-01	E641A	16-Jan-2024	22-Jan-2024	14 days	7 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
DUP-02	E641A	16-Jan-2024	22-Jan-2024	14 days	7 days	✓	22-Jan-2024	40 days	0 days	✓
Polycyclic Aromatic Hydrocarbons : PAHs by Hex:Ace GC-MS										
Glass soil jar/Teflon lined cap										
DUP-03	E641A	16-Jan-2024	22-Jan-2024	14 days	7 days	✓	22-Jan-2024	40 days	0 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-06-02	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-06-04	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-06-06	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-06-07	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓

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Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-07-02	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
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Glass soil jar/Teflon lined cap										
BH24-07-05	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-08-03	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-08-06	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-09-03	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
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BH24-09-05	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
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BH24-10-02	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
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Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
DUP-01	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
DUP-02	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
DUP-03	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	22-Jan-2024	7 days	3 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-01-01	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	23-Jan-2024	7 days	4 days	✓
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BH24-01-03	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	23-Jan-2024	7 days	4 days	✓
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BH24-01-07	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	23-Jan-2024	7 days	4 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-02-02	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	23-Jan-2024	7 days	4 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-02-04	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	23-Jan-2024	7 days	4 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-02-06	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	23-Jan-2024	7 days	4 days	✓

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			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
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Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
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Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
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BH24-03-03	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	23-Jan-2024	7 days	4 days	✓
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Glass soil jar/Teflon lined cap										
BH24-05-03	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	23-Jan-2024	7 days	4 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-05-05	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	23-Jan-2024	7 days	4 days	✓
Speciated Metals : Hexavalent Chromium (Cr VI) by IC										
Glass soil jar/Teflon lined cap										
BH24-05-07	E532	16-Jan-2024	19-Jan-2024	30 days	4 days	✓	23-Jan-2024	7 days	4 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH24-01-01	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH24-01-03	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH24-01-05	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH24-01-07	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial										
BH24-02-02	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓

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Glass soil methanol vial BH24-02-04	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
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Glass soil methanol vial BH24-05-07	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-06-02	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-06-04	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-06-06	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-06-07	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-07-02	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-07-05	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-08-03	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-08-06	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-09-03	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-09-05	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-10-02	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial BH24-10-04	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓

Matrix: **Soil/Solid**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group : Analytical Method / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial DUP-01	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial DUP-02	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass soil methanol vial DUP-03	E611A	16-Jan-2024	19-Jan-2024	40 days	3 days	✓	19-Jan-2024	40 days	3 days	✓

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
BTEX by Headspace GC-MS	E611A	1306433	2	40	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1306432	2	40	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID	E601.SG	1305887	2	35	5.7	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	1306890	3	37	8.1	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	1306887	2	35	5.7	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	1306888	2	35	5.7	5.0	✓
Moisture Content by Gravimetry	E144	1308466	2	40	5.0	5.0	✓
PAHs by Hex:Ace GC-MS	E641A	1307593	3	47	6.3	5.0	✓
Laboratory Control Samples (LCS)							
BTEX by Headspace GC-MS	E611A	1306433	2	40	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1306432	2	40	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID	E601.SG	1305887	2	35	5.7	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	1306890	4	37	10.8	10.0	✓
Mercury in Soil/Solid by CVAAS	E510	1306887	4	35	11.4	10.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	1306888	4	35	11.4	10.0	✓
Moisture Content by Gravimetry	E144	1308466	2	40	5.0	5.0	✓
PAHs by Hex:Ace GC-MS	E641A	1307593	3	47	6.3	5.0	✓
Method Blanks (MB)							
BTEX by Headspace GC-MS	E611A	1306433	2	40	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1306432	2	40	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID	E601.SG	1305887	2	35	5.7	5.0	✓
Hexavalent Chromium (Cr VI) by IC	E532	1306890	2	37	5.4	5.0	✓
Mercury in Soil/Solid by CVAAS	E510	1306887	2	35	5.7	5.0	✓
Metals in Soil/Solid by CRC ICPMS	E440	1306888	2	35	5.7	5.0	✓
Moisture Content by Gravimetry	E144	1308466	2	40	5.0	5.0	✓
PAHs by Hex:Ace GC-MS	E641A	1307593	3	47	6.3	5.0	✓
Matrix Spikes (MS)							
BTEX by Headspace GC-MS	E611A	1306433	2	40	5.0	5.0	✓
CCME PHC - F1 by Headspace GC-FID	E581.F1	1306432	2	40	5.0	5.0	✓
CCME PHCs - F2-F4 by GC-FID	E601.SG	1305887	2	35	5.7	5.0	✓
PAHs by Hex:Ace GC-MS	E641A	1307593	3	47	6.3	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Moisture Content by Gravimetry	E144 ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying the sample at 105°C. Moisture content is calculated as the weight loss (due to water) divided by the wet weight of the sample, expressed as a percentage.
Metals in Soil/Solid by CRC ICPMS	E440 ALS Environmental - Waterloo	Soil/Solid	EPA 6020B (mod)	This method is intended to liberate metals that may be environmentally available. Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl. Dependent on sample matrix, some metals may be only partially recovered, including Al, Ba, Be, Cr, Sr, Ti, Tl, V, W, and Zr. Silicate minerals are not solubilized. Volatile forms of sulfur (including sulfide) may not be captured, as they may be lost during sampling, storage, or digestion. This method does not adequately recover elemental sulfur, and is unsuitable for assessment of elemental sulfur standards or guidelines. Analysis is by Collision/Reaction Cell ICPMS.
Mercury in Soil/Solid by CVAAS	E510 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2/1631 Appendix (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO3 and HCl, followed by CVAAS analysis.
Hexavalent Chromium (Cr VI) by IC	E532 ALS Environmental - Waterloo	Soil/Solid	APHA 3500-CR C	Instrumental analysis is performed by ion chromatography with UV detection.
CCME PHC - F1 by Headspace GC-FID	E581.F1 ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.
CCME PHCs - F2-F4 by GC-FID	E601.SG ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel treatment prior to analysis by GC-FID for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Test results are expressed on a dry weight basis. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
BTEX by Headspace GC-MS	E611A ALS Environmental - Winnipeg	Soil/Solid	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PAHs by Hex:Ace GC-MS	E641A ALS Environmental - Waterloo	Soil/Solid	EPA 8270E (mod)	Polycyclic Aromatic Hydrocarbons (PAHs) are extracted with hexane/acetone and analyzed by GC-MS. If reported, IACR (index of additive cancer risk, unitless) and B(a)P toxic potency equivalent (in soil concentration units) are calculated as per CCME PAH Soil Quality Guidelines fact sheet (2010) or ABT1.
F1-BTEX	EC580 ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for Metals and Mercury	EP440 ALS Environmental - Waterloo	Soil/Solid	EPA 200.2 (mod)	Samples are dried, then sieved through a 2 mm sieve, and digested with HNO_3 and HCl. This method is intended to liberate metals that may be environmentally available.
Preparation of Hexavalent Chromium (Cr VI) for IC	EP532 ALS Environmental - Waterloo	Soil/Solid	EPA 3060A	Field moist samples are digested with a sodium hydroxide/sodium carbonate solution as described in EPA 3060A.
VOCs Methanol Extraction for Headspace Analysis	EP581 ALS Environmental - Winnipeg	Soil/Solid	EPA 5035A (mod)	VOCs in samples are extracted with methanol. Extracts are then prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.
PHCs and PAHs Hexane-Acetone Tumbler Extraction	EP601 ALS Environmental - Winnipeg	Soil/Solid	CCME PHC in Soil - Tier 1 (mod)	Samples are subsampled and Petroleum Hydrocarbons (PHC) and PAHs are extracted with 1:1 hexane:acetone using a rotary extractor.

QUALITY CONTROL REPORT

Work Order	: **WP2401273**	Page	: 1 of 24
Client	: AECOM Canada Ltd.	Laboratory	: ALS Environmental - Winnipeg
Contact	: Jonathan Ota	Account Manager	: Judy Dalmaijer
Address	: 99 Commerce Drive Winnipeg MB Canada R3P 0Y7	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4
Telephone	:	Telephone	: +1 204 255 9720
Project	: 60660698	Date Samples Received	: 17-Jan-2024 13:10
PO	: ----	Date Analysis Commenced	: 18-Jan-2024
C-O-C number	: ----	Issue Date	: 24-Jan-2024 16:28
Sampler	: ---- 204 477 5381		
Site	: ----		
Quote number	: 60660698		
No. of samples received	: 35		
No. of samples analysed	: 35		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Reference Material (RM) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Dung Hoang		Winnipeg Organics, Winnipeg, Manitoba
Gerry Vera	Analyst	Winnipeg Organics, Winnipeg, Manitoba
Greg Pokocky	Manager - Inorganics	Waterloo Metals, Waterloo, Ontario
Jocelyn Kennedy	Department Manager - Semi-Volatile Organics	Waterloo Organics, Waterloo, Ontario
Michelle Michalchuk	Analyst	Winnipeg Organics, Winnipeg, Manitoba
Niki Goebel		Waterloo Metals, Waterloo, Ontario
Simrankaur Kaur		Winnipeg Organics, Winnipeg, Manitoba

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC Lot: 1308466)											
WP2401273-001	BH24-01-01	Moisture	----	E144	0.25	%	23.6	22.8	3.49%	20%	----
Physical Tests (QC Lot: 1308773)											
WP2401273-021	BH24-06-02	Moisture	----	E144	0.25	%	21.3	21.6	1.18%	20%	----
Metals (QC Lot: 1306887)											
WP2401273-001	BH24-01-01	Mercury	7439-97-6	E510	0.0050	mg/kg	0.0161	0.0171	0.0010	Diff <2x LOR	----
Metals (QC Lot: 1306888)											
WP2401273-001	BH24-01-01	Aluminum	7429-90-5	E440	50	mg/kg	11600	12600	8.40%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	0.20	0.20	0.0009	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	4.07	4.21	3.37%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	95.7	108	11.6%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.48	0.53	0.04	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	14.5	16.1	1.6	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.145	0.156	6.70%	30%	----
		Calcium	7440-70-2	E440	50	mg/kg	87500	87300	0.223%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	25.3	27.3	7.66%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	6.95	7.61	9.09%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	15.6	16.7	6.71%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	14600	16300	10.8%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	6.43	6.75	4.84%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	17.7	19.2	8.23%	30%	----
		Magnesium	7439-95-4	E440	20	mg/kg	51800	53700	3.69%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	376	392	4.21%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.68	0.75	9.82%	40%	----
		Nickel	7440-02-0	E440	0.50	mg/kg	20.5	22.6	9.68%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	418	415	0.674%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	2250	2600	14.4%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
		Sodium	7440-23-5	E440	50	mg/kg	800	827	3.40%	40%	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Metals (QC Lot: 1306888) - continued											
WP2401273-001	BH24-01-01	Strontium	7440-24-6	E440	0.50	mg/kg	56.8	57.9	1.89%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	1000	1100	100	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	0.166	0.183	0.017	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	338	392	15.0%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	1.18	1.23	3.62%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	38.0	41.6	9.13%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	34.0	36.3	6.49%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	12.9	14.4	11.1%	30%	----
Metals (QC Lot: 1306899)											
WP2401273-021	BH24-06-02	Aluminum	7429-90-5	E440	50	mg/kg	13800	12700	8.78%	40%	----
		Antimony	7440-36-0	E440	0.10	mg/kg	0.22	0.18	0.04	Diff <2x LOR	----
		Arsenic	7440-38-2	E440	0.10	mg/kg	4.83	4.30	11.6%	30%	----
		Barium	7440-39-3	E440	0.50	mg/kg	98.8	97.6	1.17%	40%	----
		Beryllium	7440-41-7	E440	0.10	mg/kg	0.57	0.52	0.05	Diff <2x LOR	----
		Bismuth	7440-69-9	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Boron	7440-42-8	E440	5.0	mg/kg	18.8	17.9	0.9	Diff <2x LOR	----
		Cadmium	7440-43-9	E440	0.020	mg/kg	0.169	0.149	12.5%	30%	----
		Calcium	7440-70-2	E440	50	mg/kg	98600	94200	4.54%	30%	----
		Chromium	7440-47-3	E440	0.50	mg/kg	29.7	25.9	13.4%	30%	----
		Cobalt	7440-48-4	E440	0.10	mg/kg	7.68	6.80	12.2%	30%	----
		Copper	7440-50-8	E440	0.50	mg/kg	17.2	15.1	12.8%	30%	----
		Iron	7439-89-6	E440	50	mg/kg	17100	15200	12.0%	30%	----
		Lead	7439-92-1	E440	0.50	mg/kg	7.42	6.73	9.81%	40%	----
		Lithium	7439-93-2	E440	2.0	mg/kg	19.9	18.2	8.59%	30%	----
		Magnesium	7439-95-4	E440	20	mg/kg	61700	57200	7.56%	30%	----
		Manganese	7439-96-5	E440	1.0	mg/kg	357	330	7.76%	30%	----
		Molybdenum	7439-98-7	E440	0.10	mg/kg	0.54	0.46	0.08	Diff <2x LOR	----
		Nickel	7440-02-0	E440	0.50	mg/kg	21.9	19.8	10.4%	30%	----
		Phosphorus	7723-14-0	E440	50	mg/kg	509	424	18.1%	30%	----
		Potassium	7440-09-7	E440	100	mg/kg	2730	2410	12.5%	40%	----
		Selenium	7782-49-2	E440	0.20	mg/kg	<0.20	<0.20	0	Diff <2x LOR	----
		Silver	7440-22-4	E440	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Metals (QC Lot: 1306899) - continued											
WP2401273-021	BH24-06-02	Sodium	7440-23-5	E440	50	mg/kg	353	322	9.18%	40%	----
		Strontium	7440-24-6	E440	0.50	mg/kg	53.0	45.4	15.4%	40%	----
		Sulfur	7704-34-9	E440	1000	mg/kg	<1000	<1000	0	Diff <2x LOR	----
		Thallium	7440-28-0	E440	0.050	mg/kg	0.165	0.158	0.007	Diff <2x LOR	----
		Tin	7440-31-5	E440	2.0	mg/kg	<2.0	<2.0	0	Diff <2x LOR	----
		Titanium	7440-32-6	E440	1.0	mg/kg	388	344	11.9%	40%	----
		Tungsten	7440-33-7	E440	0.50	mg/kg	<0.50	<0.50	0	Diff <2x LOR	----
		Uranium	7440-61-1	E440	0.050	mg/kg	0.851	0.759	11.5%	30%	----
		Vanadium	7440-62-2	E440	0.20	mg/kg	46.4	41.3	11.6%	30%	----
		Zinc	7440-66-6	E440	2.0	mg/kg	37.6	40.0	6.43%	30%	----
		Zirconium	7440-67-7	E440	1.0	mg/kg	12.8	11.3	12.1%	30%	----
Metals (QC Lot: 1306900)											
WP2401273-021	BH24-06-02	Mercury	7439-97-6	E510	0.0050	mg/kg	0.0205	0.0201	0.0005	Diff <2x LOR	----
Speciated Metals (QC Lot: 1306890)											
WP2401273-001	BH24-01-01	Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	<0.10	<0.10	0	Diff <2x LOR	----
Speciated Metals (QC Lot: 1306896)											
WP2401273-021	BH24-06-02	Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	0.14	0.12	0.02	Diff <2x LOR	----
Speciated Metals (QC Lot: 1309170)											
WP2401273-021	BH24-06-02	Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.10	mg/kg	0.14	0.12	0.01	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1306433)											
WP2401273-001	BH24-01-01	Benzene	71-43-2	E611A	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	<0.015	0	Diff <2x LOR	----
		Toluene	108-88-3	E611A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
Volatile Organic Compounds (QC Lot: 1306606)											
WP2401273-021	BH24-06-02	Benzene	71-43-2	E611A	0.0050	mg/kg	<0.0050	<0.0050	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	<0.015	0	Diff <2x LOR	----
		Toluene	108-88-3	E611A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1305887)											
WP2401273-001	BH24-01-01	F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	<25	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	<50	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Hydrocarbons (QC Lot: 1305887) - continued											
WP2401273-001	BH24-01-01	F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	<50	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1305898)											
WP2401273-021	BH24-06-02	F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	<25	0	Diff <2x LOR	----
		F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	<50	0	Diff <2x LOR	----
		F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	<50	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1306432)											
WP2401273-001	BH24-01-01	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1306607)											
WP2401273-021	BH24-06-02	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0	0	Diff <2x LOR	----
Polycyclic Aromatic Hydrocarbons (QC Lot: 1307593)											
WT2401294-001	Anonymous	Acenaphthene	83-32-9	E641A	0.050	mg/kg	0.053 µg/g	0.093	0.040	Diff <2x LOR	J
		Acenaphthylene	208-96-8	E641A	0.050	mg/kg	<0.050 µg/g	<0.050	0	Diff <2x LOR	----
		Acridine	260-94-6	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Anthracene	120-12-7	E641A	0.050	mg/kg	0.146 µg/g	0.338	79.4%	50%	DUP-H
		Benz(a)anthracene	56-55-3	E641A	0.050	mg/kg	0.281 µg/g	0.858	101%	50%	DUP-H
		Benzo(a)pyrene	50-32-8	E641A	0.050	mg/kg	0.296 µg/g	0.653	75.4%	50%	DUP-H
		Benzo(b+j)fluoranthene	n/a	E641A	0.050	mg/kg	0.439 µg/g	1.01	78.7%	50%	DUP-H
		Benzo(g,h,i)perylene	191-24-2	E641A	0.050	mg/kg	0.234 µg/g	0.409	54.2%	50%	DUP-H
		Benzo(k)fluoranthene	207-08-9	E641A	0.050	mg/kg	0.177 µg/g	0.427	82.6%	50%	DUP-H
		Chrysene	218-01-9	E641A	0.050	mg/kg	0.381 µg/g	0.944	85.1%	50%	DUP-H
		Dibenz(a,h)anthracene	53-70-3	E641A	0.050	mg/kg	0.054 µg/g	0.110	0.056	Diff <2x LOR	J
		Fluoranthene	206-44-0	E641A	0.050	mg/kg	0.746 µg/g	2.36	104%	50%	DUP-H
		Fluorene	86-73-7	E641A	0.050	mg/kg	0.056 µg/g	0.124	0.067	Diff <2x LOR	J
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.050	mg/kg	0.223 µg/g	0.432	63.7%	50%	DUP-H
		Methylnaphthalene, 1-	90-12-0	E641A	0.030	mg/kg	0.043 µg/g	0.034	0.009	Diff <2x LOR	J
		Methylnaphthalene, 2-	91-57-6	E641A	0.030	mg/kg	0.049 µg/g	0.045	0.004	Diff <2x LOR	J
		Naphthalene	91-20-3	E641A	0.010	mg/kg	0.040 µg/g	0.041	2.91%	50%	----
		Phenanthrene	85-01-8	E641A	0.050	mg/kg	0.593 µg/g	1.56	89.6%	50%	DUP-H
		Pyrene	129-00-0	E641A	0.050	mg/kg	0.597 µg/g	1.78	99.4%	50%	DUP-H
		Quinoline	91-22-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Polycyclic Aromatic Hydrocarbons (QC Lot: 1307596)											
WP2401273-009	BH24-03-01	Acenaphthene	83-32-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acenaphthylene	208-96-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acridine	260-94-6	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Polycyclic Aromatic Hydrocarbons (QC Lot: 1307596) - continued											
WP2401273-009	BH24-03-01	Anthracene	120-12-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benz(a)anthracene	56-55-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(a)pyrene	50-32-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Chrysene	218-01-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluoranthene	206-44-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluorene	86-73-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Naphthalene	91-20-3	E641A	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Phenanthrene	85-01-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Pyrene	129-00-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Quinoline	91-22-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
Polycyclic Aromatic Hydrocarbons (QC Lot: 1308289)											
WP2401273-029	BH24-09-03	Acenaphthene	83-32-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acenaphthylene	208-96-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Acridine	260-94-6	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Anthracene	120-12-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benz(a)anthracene	56-55-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(a)pyrene	50-32-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Chrysene	218-01-9	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluoranthene	206-44-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Fluorene	86-73-7	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.030	mg/kg	<0.030	<0.030	0	Diff <2x LOR	----

Sub-Matrix: **Soil/Solid**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Polycyclic Aromatic Hydrocarbons (QC Lot: 1308289) - continued											
WP2401273-029	BH24-09-03	Naphthalene	91-20-3	E641A	0.010	mg/kg	<0.010	<0.010	0	Diff <2x LOR	----
		Phenanthrene	85-01-8	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Pyrene	129-00-0	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----
		Quinoline	91-22-5	E641A	0.050	mg/kg	<0.050	<0.050	0	Diff <2x LOR	----

Qualifiers

Qualifier	*Description*
DUP-H	*Duplicate results outside ALS DQO, due to sample heterogeneity.*
J	*Duplicate results and limits are expressed in terms of absolute difference.*

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 1308466)						
Moisture	----	E144	0.25	%	<0.25	----
Physical Tests (QCLot: 1308773)						
Moisture	----	E144	0.25	%	<0.25	----
Metals (QCLot: 1306887)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Metals (QCLot: 1306888)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	----
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	----
Boron	7440-42-8	E440	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
Calcium	7440-70-2	E440	50	mg/kg	<50	----
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
Iron	7439-89-6	E440	50	mg/kg	<50	----
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
Lithium	7439-93-2	E440	2	mg/kg	<2.0	----
Magnesium	7439-95-4	E440	20	mg/kg	<20	----
Manganese	7439-96-5	E440	1	mg/kg	<1.0	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
Phosphorus	7723-14-0	E440	50	mg/kg	<50	----
Potassium	7440-09-7	E440	100	mg/kg	<100	----
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E440	50	mg/kg	<50	----
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 1306888) - continued						
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 1306899)						
Aluminum	7429-90-5	E440	50	mg/kg	<50	----
Antimony	7440-36-0	E440	0.1	mg/kg	<0.10	----
Arsenic	7440-38-2	E440	0.1	mg/kg	<0.10	----
Barium	7440-39-3	E440	0.5	mg/kg	<0.50	----
Beryllium	7440-41-7	E440	0.1	mg/kg	<0.10	----
Bismuth	7440-69-9	E440	0.2	mg/kg	<0.20	----
Boron	7440-42-8	E440	5	mg/kg	<5.0	----
Cadmium	7440-43-9	E440	0.02	mg/kg	<0.020	----
Calcium	7440-70-2	E440	50	mg/kg	<50	----
Chromium	7440-47-3	E440	0.5	mg/kg	<0.50	----
Cobalt	7440-48-4	E440	0.1	mg/kg	<0.10	----
Copper	7440-50-8	E440	0.5	mg/kg	<0.50	----
Iron	7439-89-6	E440	50	mg/kg	<50	----
Lead	7439-92-1	E440	0.5	mg/kg	<0.50	----
Lithium	7439-93-2	E440	2	mg/kg	<2.0	----
Magnesium	7439-95-4	E440	20	mg/kg	<20	----
Manganese	7439-96-5	E440	1	mg/kg	<1.0	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	<0.10	----
Nickel	7440-02-0	E440	0.5	mg/kg	<0.50	----
Phosphorus	7723-14-0	E440	50	mg/kg	<50	----
Potassium	7440-09-7	E440	100	mg/kg	<100	----
Selenium	7782-49-2	E440	0.2	mg/kg	<0.20	----
Silver	7440-22-4	E440	0.1	mg/kg	<0.10	----
Sodium	7440-23-5	E440	50	mg/kg	<50	----
Strontium	7440-24-6	E440	0.5	mg/kg	<0.50	----
Sulfur	7704-34-9	E440	1000	mg/kg	<1000	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Metals (QCLot: 1306899) - continued						
Thallium	7440-28-0	E440	0.05	mg/kg	<0.050	----
Tin	7440-31-5	E440	2	mg/kg	<2.0	----
Titanium	7440-32-6	E440	1	mg/kg	<1.0	----
Tungsten	7440-33-7	E440	0.5	mg/kg	<0.50	----
Uranium	7440-61-1	E440	0.05	mg/kg	<0.050	----
Vanadium	7440-62-2	E440	0.2	mg/kg	<0.20	----
Zinc	7440-66-6	E440	2	mg/kg	<2.0	----
Zirconium	7440-67-7	E440	1	mg/kg	<1.0	----
Metals (QCLot: 1306900)						
Mercury	7439-97-6	E510	0.005	mg/kg	<0.0050	----
Speciated Metals (QCLot: 1306890)						
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	----
Speciated Metals (QCLot: 1309170)						
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	<0.10	----
Volatile Organic Compounds (QCLot: 1306433)						
Benzene	71-43-2	E611A	0.005	mg/kg	<0.0050	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	----
Toluene	108-88-3	E611A	0.05	mg/kg	<0.050	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	<0.030	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	<0.030	----
Volatile Organic Compounds (QCLot: 1306606)						
Benzene	71-43-2	E611A	0.005	mg/kg	<0.0050	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	----
Toluene	108-88-3	E611A	0.05	mg/kg	<0.050	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	<0.030	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	<0.030	----
Hydrocarbons (QCLot: 1305887)						
F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	----
F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	----
Hydrocarbons (QCLot: 1305898)						
F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	----
F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	----
F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	----
Hydrocarbons (QCLot: 1306432)						

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Hydrocarbons (QCLot: 1306432) - continued						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Hydrocarbons (QCLot: 1306607)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1307593)						
Acenaphthene	83-32-9	E641A	0.05	mg/kg	<0.050	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	<0.050	----
Acridine	260-94-6	E641A	0.05	mg/kg	<0.050	----
Anthracene	120-12-7	E641A	0.05	mg/kg	<0.050	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	<0.050	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	<0.050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	<0.050	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	<0.050	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	<0.050	----
Chrysene	218-01-9	E641A	0.05	mg/kg	<0.050	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	<0.050	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	<0.050	----
Fluorene	86-73-7	E641A	0.05	mg/kg	<0.050	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	<0.050	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	<0.030	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	<0.030	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	<0.010	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	<0.050	----
Pyrene	129-00-0	E641A	0.05	mg/kg	<0.050	----
Quinoline	91-22-5	E641A	0.05	mg/kg	<0.050	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1307596)						
Acenaphthene	83-32-9	E641A	0.05	mg/kg	<0.050	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	<0.050	----
Acridine	260-94-6	E641A	0.05	mg/kg	<0.050	----
Anthracene	120-12-7	E641A	0.05	mg/kg	<0.050	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	<0.050	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	<0.050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	<0.050	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	<0.050	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	<0.050	----
Chrysene	218-01-9	E641A	0.05	mg/kg	<0.050	----

Sub-Matrix: **Soil/Solid**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1307596) - continued						
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	<0.050	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	<0.050	----
Fluorene	86-73-7	E641A	0.05	mg/kg	<0.050	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	<0.050	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	<0.030	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	<0.030	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	<0.010	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	<0.050	----
Pyrene	129-00-0	E641A	0.05	mg/kg	<0.050	----
Quinoline	91-22-5	E641A	0.05	mg/kg	<0.050	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1308289)						
Acenaphthene	83-32-9	E641A	0.05	mg/kg	<0.050	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	<0.050	----
Acridine	260-94-6	E641A	0.05	mg/kg	<0.050	----
Anthracene	120-12-7	E641A	0.05	mg/kg	<0.050	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	<0.050	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	<0.050	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	<0.050	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	<0.050	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	<0.050	----
Chrysene	218-01-9	E641A	0.05	mg/kg	<0.050	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	<0.050	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	<0.050	----
Fluorene	86-73-7	E641A	0.05	mg/kg	<0.050	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	<0.050	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	<0.030	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	<0.030	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	<0.010	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	<0.050	----
Pyrene	129-00-0	E641A	0.05	mg/kg	<0.050	----
Quinoline	91-22-5	E641A	0.05	mg/kg	<0.050	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1308466)									
Moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Physical Tests (QCLot: 1308773)									
Moisture	----	E144	0.25	%	50 %	100	90.0	110	----
Metals (QCLot: 1306887)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	100	80.0	120	----
Metals (QCLot: 1306888)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	107	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	105	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	103	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	98.6	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	88.9	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	96.9	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	85.9	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	98.0	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	93.4	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	99.5	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	97.2	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	96.9	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	104	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	97.7	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	83.6	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	99.6	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	98.8	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	103	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	95.1	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	103	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	101	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	103	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	104	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	98.7	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	108	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	99.6	80.0	120	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 1306888) - continued									
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	97.0	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	97.7	80.0	120	----
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	97.7	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	92.5	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	100.0	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	87.3	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	104	80.0	120	----
Metals (QCLot: 1306899)									
Aluminum	7429-90-5	E440	50	mg/kg	200 mg/kg	103	80.0	120	----
Antimony	7440-36-0	E440	0.1	mg/kg	100 mg/kg	104	80.0	120	----
Arsenic	7440-38-2	E440	0.1	mg/kg	100 mg/kg	100	80.0	120	----
Barium	7440-39-3	E440	0.5	mg/kg	25 mg/kg	98.3	80.0	120	----
Beryllium	7440-41-7	E440	0.1	mg/kg	10 mg/kg	97.3	80.0	120	----
Bismuth	7440-69-9	E440	0.2	mg/kg	100 mg/kg	91.6	80.0	120	----
Boron	7440-42-8	E440	5	mg/kg	100 mg/kg	103	80.0	120	----
Cadmium	7440-43-9	E440	0.02	mg/kg	10 mg/kg	98.3	80.0	120	----
Calcium	7440-70-2	E440	50	mg/kg	5000 mg/kg	99.1	80.0	120	----
Chromium	7440-47-3	E440	0.5	mg/kg	25 mg/kg	97.2	80.0	120	----
Cobalt	7440-48-4	E440	0.1	mg/kg	25 mg/kg	95.7	80.0	120	----
Copper	7440-50-8	E440	0.5	mg/kg	25 mg/kg	95.8	80.0	120	----
Iron	7439-89-6	E440	50	mg/kg	100 mg/kg	95.6	80.0	120	----
Lead	7439-92-1	E440	0.5	mg/kg	50 mg/kg	94.4	80.0	120	----
Lithium	7439-93-2	E440	2	mg/kg	25 mg/kg	101	80.0	120	----
Magnesium	7439-95-4	E440	20	mg/kg	5000 mg/kg	108	80.0	120	----
Manganese	7439-96-5	E440	1	mg/kg	25 mg/kg	99.6	80.0	120	----
Molybdenum	7439-98-7	E440	0.1	mg/kg	25 mg/kg	96.3	80.0	120	----
Nickel	7440-02-0	E440	0.5	mg/kg	50 mg/kg	95.6	80.0	120	----
Phosphorus	7723-14-0	E440	50	mg/kg	1000 mg/kg	99.3	80.0	120	----
Potassium	7440-09-7	E440	100	mg/kg	5000 mg/kg	98.4	80.0	120	----
Selenium	7782-49-2	E440	0.2	mg/kg	100 mg/kg	96.5	80.0	120	----
Silver	7440-22-4	E440	0.1	mg/kg	10 mg/kg	87.4	80.0	120	----
Sodium	7440-23-5	E440	50	mg/kg	5000 mg/kg	100	80.0	120	----
Strontium	7440-24-6	E440	0.5	mg/kg	25 mg/kg	93.3	80.0	120	----
Sulfur	7704-34-9	E440	1000	mg/kg	5000 mg/kg	90.8	80.0	120	----
Thallium	7440-28-0	E440	0.05	mg/kg	100 mg/kg	87.4	80.0	120	----
Tin	7440-31-5	E440	2	mg/kg	50 mg/kg	95.6	80.0	120	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Metals (QCLot: 1306899) - continued									
Titanium	7440-32-6	E440	1	mg/kg	25 mg/kg	95.2	80.0	120	----
Uranium	7440-61-1	E440	0.05	mg/kg	0.5 mg/kg	82.4	80.0	120	----
Vanadium	7440-62-2	E440	0.2	mg/kg	50 mg/kg	100	80.0	120	----
Zinc	7440-66-6	E440	2	mg/kg	50 mg/kg	85.2	80.0	120	----
Zirconium	7440-67-7	E440	1	mg/kg	10 mg/kg	88.1	80.0	120	----
Metals (QCLot: 1306900)									
Mercury	7439-97-6	E510	0.005	mg/kg	0.1 mg/kg	118	80.0	120	----
Speciated Metals (QCLot: 1306890)									
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	91.2	80.0	120	----
Speciated Metals (QCLot: 1309170)									
Chromium, hexavalent [Cr VI]	18540-29-9	E532	0.1	mg/kg	0.8 mg/kg	105	80.0	120	----
Volatile Organic Compounds (QCLot: 1306433)									
Benzene	71-43-2	E611A	0.005	mg/kg	2.5 mg/kg	97.0	70.0	130	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	2.5 mg/kg	102	70.0	130	----
Toluene	108-88-3	E611A	0.05	mg/kg	2.5 mg/kg	102	70.0	130	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	5 mg/kg	106	70.0	130	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	2.5 mg/kg	104	70.0	130	----
Volatile Organic Compounds (QCLot: 1306606)									
Benzene	71-43-2	E611A	0.005	mg/kg	2.5 mg/kg	98.8	70.0	130	----
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	2.5 mg/kg	87.6	70.0	130	----
Toluene	108-88-3	E611A	0.05	mg/kg	2.5 mg/kg	87.9	70.0	130	----
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	5 mg/kg	97.8	70.0	130	----
Xylene, o-	95-47-6	E611A	0.03	mg/kg	2.5 mg/kg	94.1	70.0	130	----
Hydrocarbons (QCLot: 1305887)									
F2 (C10-C16)	----	E601.SG	25	mg/kg	638 mg/kg	105	70.0	130	----
F3 (C16-C34)	----	E601.SG	50	mg/kg	1270 mg/kg	93.2	70.0	130	----
F4 (C34-C50)	----	E601.SG	50	mg/kg	1094 mg/kg	102	70.0	130	----
Hydrocarbons (QCLot: 1305898)									
F2 (C10-C16)	----	E601.SG	25	mg/kg	638 mg/kg	108	70.0	130	----
F3 (C16-C34)	----	E601.SG	50	mg/kg	1270 mg/kg	96.1	70.0	130	----
F4 (C34-C50)	----	E601.SG	50	mg/kg	1094 mg/kg	104	70.0	130	----
Hydrocarbons (QCLot: 1306432)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	92.77 mg/kg	87.3	70.0	130	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Hydrocarbons (QCLot: 1306607)									
F1 (C6-C10)	----	E581.F1	5	mg/kg	92.77 mg/kg	83.9	70.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1307593)									
Acenaphthene	83-32-9	E641A	0.05	mg/kg	0.5 mg/kg	91.6	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	0.5 mg/kg	93.0	60.0	130	----
Acridine	260-94-6	E641A	0.05	mg/kg	0.5 mg/kg	92.0	60.0	130	----
Anthracene	120-12-7	E641A	0.05	mg/kg	0.5 mg/kg	98.6	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	0.5 mg/kg	92.5	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	0.5 mg/kg	89.4	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	0.5 mg/kg	94.4	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	0.5 mg/kg	97.0	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	0.5 mg/kg	96.2	60.0	130	----
Chrysene	218-01-9	E641A	0.05	mg/kg	0.5 mg/kg	89.5	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	0.5 mg/kg	88.1	60.0	130	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	0.5 mg/kg	93.6	60.0	130	----
Fluorene	86-73-7	E641A	0.05	mg/kg	0.5 mg/kg	94.9	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	0.5 mg/kg	94.9	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	0.5 mg/kg	84.1	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	0.5 mg/kg	90.0	60.0	130	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	0.5 mg/kg	82.3	60.0	130	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	0.5 mg/kg	91.6	60.0	130	----
Pyrene	129-00-0	E641A	0.05	mg/kg	0.5 mg/kg	91.2	60.0	130	----
Quinoline	91-22-5	E641A	0.05	mg/kg	0.5 mg/kg	83.7	60.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1307596)									
Acenaphthene	83-32-9	E641A	0.05	mg/kg	0.5 mg/kg	83.7	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	0.5 mg/kg	84.6	60.0	130	----
Acridine	260-94-6	E641A	0.05	mg/kg	0.5 mg/kg	77.7	60.0	130	----
Anthracene	120-12-7	E641A	0.05	mg/kg	0.5 mg/kg	84.0	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	0.5 mg/kg	95.3	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	0.5 mg/kg	79.8	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	0.5 mg/kg	87.1	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	0.5 mg/kg	92.6	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	0.5 mg/kg	92.7	60.0	130	----
Chrysene	218-01-9	E641A	0.05	mg/kg	0.5 mg/kg	95.4	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	0.5 mg/kg	79.2	60.0	130	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	0.5 mg/kg	87.4	60.0	130	----

Sub-Matrix: **Soil/Solid**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1307596) - continued									
Fluorene	86-73-7	E641A	0.05	mg/kg	0.5 mg/kg	86.4	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	0.5 mg/kg	85.9	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	0.5 mg/kg	79.2	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	0.5 mg/kg	78.9	60.0	130	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	0.5 mg/kg	72.6	60.0	130	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	0.5 mg/kg	81.8	60.0	130	----
Pyrene	129-00-0	E641A	0.05	mg/kg	0.5 mg/kg	83.7	60.0	130	----
Quinoline	91-22-5	E641A	0.05	mg/kg	0.5 mg/kg	73.0	60.0	130	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1308289)									
Acenaphthene	83-32-9	E641A	0.05	mg/kg	0.5 mg/kg	94.0	60.0	130	----
Acenaphthylene	208-96-8	E641A	0.05	mg/kg	0.5 mg/kg	93.0	60.0	130	----
Acridine	260-94-6	E641A	0.05	mg/kg	0.5 mg/kg	83.6	60.0	130	----
Anthracene	120-12-7	E641A	0.05	mg/kg	0.5 mg/kg	94.2	60.0	130	----
Benz(a)anthracene	56-55-3	E641A	0.05	mg/kg	0.5 mg/kg	110	60.0	130	----
Benzo(a)pyrene	50-32-8	E641A	0.05	mg/kg	0.5 mg/kg	86.6	60.0	130	----
Benzo(b+j)fluoranthene	n/a	E641A	0.05	mg/kg	0.5 mg/kg	96.6	60.0	130	----
Benzo(g,h,i)perylene	191-24-2	E641A	0.05	mg/kg	0.5 mg/kg	105	60.0	130	----
Benzo(k)fluoranthene	207-08-9	E641A	0.05	mg/kg	0.5 mg/kg	104	60.0	130	----
Chrysene	218-01-9	E641A	0.05	mg/kg	0.5 mg/kg	112	60.0	130	----
Dibenz(a,h)anthracene	53-70-3	E641A	0.05	mg/kg	0.5 mg/kg	87.2	60.0	130	----
Fluoranthene	206-44-0	E641A	0.05	mg/kg	0.5 mg/kg	95.7	60.0	130	----
Fluorene	86-73-7	E641A	0.05	mg/kg	0.5 mg/kg	94.5	60.0	130	----
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.05	mg/kg	0.5 mg/kg	96.0	60.0	130	----
Methylnaphthalene, 1-	90-12-0	E641A	0.03	mg/kg	0.5 mg/kg	85.0	60.0	130	----
Methylnaphthalene, 2-	91-57-6	E641A	0.03	mg/kg	0.5 mg/kg	86.4	60.0	130	----
Naphthalene	91-20-3	E641A	0.01	mg/kg	0.5 mg/kg	75.2	60.0	130	----
Phenanthrene	85-01-8	E641A	0.05	mg/kg	0.5 mg/kg	89.5	60.0	130	----
Pyrene	129-00-0	E641A	0.05	mg/kg	0.5 mg/kg	92.0	60.0	130	----
Quinoline	91-22-5	E641A	0.05	mg/kg	0.5 mg/kg	79.8	60.0	130	----

Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1306433)										
WP2401273-001	BH24-01-01	Benzene	71-43-2	E611A	2.38 mg/kg	3.125 mg/kg	108	60.0	140	----
		Ethylbenzene	100-41-4	E611A	2.28 mg/kg	3.125 mg/kg	103	60.0	140	----
		Toluene	108-88-3	E611A	2.23 mg/kg	3.125 mg/kg	101	60.0	140	----
		Xylene, m+p-	179601-23-1	E611A	5.05 mg/kg	6.25 mg/kg	114	60.0	140	----
		Xylene, o-	95-47-6	E611A	2.44 mg/kg	3.125 mg/kg	111	60.0	140	----
Volatile Organic Compounds (QCLot: 1306606)										
WP2401273-021	BH24-06-02	Benzene	71-43-2	E611A	2.74 mg/kg	3.125 mg/kg	116	60.0	140	----
		Ethylbenzene	100-41-4	E611A	2.55 mg/kg	3.125 mg/kg	108	60.0	140	----
		Toluene	108-88-3	E611A	2.52 mg/kg	3.125 mg/kg	106	60.0	140	----
		Xylene, m+p-	179601-23-1	E611A	5.76 mg/kg	6.25 mg/kg	122	60.0	140	----
		Xylene, o-	95-47-6	E611A	2.77 mg/kg	3.125 mg/kg	117	60.0	140	----
Hydrocarbons (QCLot: 1305887)										
WP2401273-001	BH24-01-01	F2 (C10-C16)	----	E601.SG	541 mg/kg	638 mg/kg	116	60.0	140	----
		F3 (C16-C34)	----	E601.SG	948 mg/kg	1270 mg/kg	102	60.0	140	----
		F4 (C34-C50)	----	E601.SG	901 mg/kg	1094 mg/kg	113	60.0	140	----
Hydrocarbons (QCLot: 1305898)										
WP2401273-021	BH24-06-02	F2 (C10-C16)	----	E601.SG	486 mg/kg	638 mg/kg	104	60.0	140	----
		F3 (C16-C34)	----	E601.SG	863 mg/kg	1270 mg/kg	93.1	60.0	140	----
		F4 (C34-C50)	----	E601.SG	806 mg/kg	1094 mg/kg	101	60.0	140	----
Hydrocarbons (QCLot: 1306432)										
WP2401273-001	BH24-01-01	F1 (C6-C10)	----	E581.F1	110 mg/kg	185.55 mg/kg	84.3	60.0	140	----
Hydrocarbons (QCLot: 1306607)										
WP2401273-021	BH24-06-02	F1 (C6-C10)	----	E581.F1	111 mg/kg	185.55 mg/kg	79.3	60.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1307593)										
WT2401294-001	Anonymous	Acenaphthene	83-32-9	E641A	0.392 mg/kg	0.5 mg/kg	96.9	50.0	140	----
		Acenaphthylene	208-96-8	E641A	0.382 mg/kg	0.5 mg/kg	94.4	50.0	140	----
		Acridine	260-94-6	E641A	0.407 mg/kg	0.5 mg/kg	101	50.0	140	----
		Anthracene	120-12-7	E641A	0.446 mg/kg	0.5 mg/kg	110	50.0	140	----
		Benz(a)anthracene	56-55-3	E641A	0.427 mg/kg	0.5 mg/kg	105	50.0	140	----
		Benzo(a)pyrene	50-32-8	E641A	0.385 mg/kg	0.5 mg/kg	95.1	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1307593) - continued										
WT2401294-001	Anonymous	Benzo(b+j)fluoranthene	n/a	E641A	0.408 mg/kg	0.5 mg/kg	101	50.0	140	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.404 mg/kg	0.5 mg/kg	99.7	50.0	140	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.391 mg/kg	0.5 mg/kg	96.7	50.0	140	----
		Chrysene	218-01-9	E641A	0.325 mg/kg	0.5 mg/kg	80.2	50.0	140	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.344 mg/kg	0.5 mg/kg	85.0	50.0	140	----
		Fluoranthene	206-44-0	E641A	ND mg/kg	0.5 mg/kg	ND	50.0	140	MS-B
		Fluorene	86-73-7	E641A	0.403 mg/kg	0.5 mg/kg	99.5	50.0	140	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.397 mg/kg	0.5 mg/kg	98.1	50.0	140	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.333 mg/kg	0.5 mg/kg	82.3	50.0	140	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.370 mg/kg	0.5 mg/kg	91.4	50.0	140	----
		Naphthalene	91-20-3	E641A	0.367 mg/kg	0.5 mg/kg	90.6	50.0	140	----
		Phenanthrene	85-01-8	E641A	ND mg/kg	0.5 mg/kg	ND	50.0	140	MS-B
		Pyrene	129-00-0	E641A	ND mg/kg	0.5 mg/kg	ND	50.0	140	MS-B
		Quinoline	91-22-5	E641A	0.352 mg/kg	0.5 mg/kg	86.8	50.0	140	----
Polycyclic Aromatic Hydrocarbons (QCLot: 1307596)										
WP2401273-009	BH24-03-01	Acenaphthene	83-32-9	E641A	0.372 mg/kg	0.5 mg/kg	91.7	50.0	140	----
		Acenaphthylene	208-96-8	E641A	0.373 mg/kg	0.5 mg/kg	92.0	50.0	140	----
		Acridine	260-94-6	E641A	0.325 mg/kg	0.5 mg/kg	80.2	50.0	140	----
		Anthracene	120-12-7	E641A	0.366 mg/kg	0.5 mg/kg	90.1	50.0	140	----
		Benz(a)anthracene	56-55-3	E641A	0.379 mg/kg	0.5 mg/kg	93.4	50.0	140	----
		Benzo(a)pyrene	50-32-8	E641A	0.345 mg/kg	0.5 mg/kg	85.1	50.0	140	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.368 mg/kg	0.5 mg/kg	90.7	50.0	140	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.376 mg/kg	0.5 mg/kg	92.6	50.0	140	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.399 mg/kg	0.5 mg/kg	98.4	50.0	140	----
		Chrysene	218-01-9	E641A	0.372 mg/kg	0.5 mg/kg	91.7	50.0	140	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.346 mg/kg	0.5 mg/kg	85.2	50.0	140	----
		Fluoranthene	206-44-0	E641A	0.374 mg/kg	0.5 mg/kg	92.2	50.0	140	----
		Fluorene	86-73-7	E641A	0.374 mg/kg	0.5 mg/kg	92.2	50.0	140	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.358 mg/kg	0.5 mg/kg	88.2	50.0	140	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.363 mg/kg	0.5 mg/kg	89.5	50.0	140	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.374 mg/kg	0.5 mg/kg	92.2	50.0	140	----
		Naphthalene	91-20-3	E641A	0.358 mg/kg	0.5 mg/kg	88.1	50.0	140	----
		Phenanthrene	85-01-8	E641A	0.357 mg/kg	0.5 mg/kg	88.0	50.0	140	----
		Pyrene	129-00-0	E641A	0.362 mg/kg	0.5 mg/kg	89.3	50.0	140	----
		Quinoline	91-22-5	E641A	0.325 mg/kg	0.5 mg/kg	80.2	50.0	140	----

Sub-Matrix: **Soil/Solid**

					Matrix Spike (MS) Report					
					Spike		Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Polycyclic Aromatic Hydrocarbons (QCLot: 1308289)										
WP2401273-029	BH24-09-03	Acenaphthene	83-32-9	E641A	0.406 mg/kg	0.5 mg/kg	102	50.0	140	----
		Acenaphthylene	208-96-8	E641A	0.403 mg/kg	0.5 mg/kg	101	50.0	140	----
		Acridine	260-94-6	E641A	0.364 mg/kg	0.5 mg/kg	90.9	50.0	140	----
		Anthracene	120-12-7	E641A	0.401 mg/kg	0.5 mg/kg	100	50.0	140	----
		Benz(a)anthracene	56-55-3	E641A	0.429 mg/kg	0.5 mg/kg	107	50.0	140	----
		Benzo(a)pyrene	50-32-8	E641A	0.373 mg/kg	0.5 mg/kg	93.4	50.0	140	----
		Benzo(b+j)fluoranthene	n/a	E641A	0.421 mg/kg	0.5 mg/kg	105	50.0	140	----
		Benzo(g,h,i)perylene	191-24-2	E641A	0.431 mg/kg	0.5 mg/kg	108	50.0	140	----
		Benzo(k)fluoranthene	207-08-9	E641A	0.449 mg/kg	0.5 mg/kg	112	50.0	140	----
		Chrysene	218-01-9	E641A	0.425 mg/kg	0.5 mg/kg	106	50.0	140	----
		Dibenz(a,h)anthracene	53-70-3	E641A	0.382 mg/kg	0.5 mg/kg	95.7	50.0	140	----
		Fluoranthene	206-44-0	E641A	0.410 mg/kg	0.5 mg/kg	102	50.0	140	----
		Fluorene	86-73-7	E641A	0.403 mg/kg	0.5 mg/kg	101	50.0	140	----
		Indeno(1,2,3-c,d)pyrene	193-39-5	E641A	0.400 mg/kg	0.5 mg/kg	100	50.0	140	----
		Methylnaphthalene, 1-	90-12-0	E641A	0.385 mg/kg	0.5 mg/kg	96.3	50.0	140	----
		Methylnaphthalene, 2-	91-57-6	E641A	0.398 mg/kg	0.5 mg/kg	99.4	50.0	140	----
		Naphthalene	91-20-3	E641A	0.379 mg/kg	0.5 mg/kg	94.8	50.0	140	----
		Phenanthrene	85-01-8	E641A	0.385 mg/kg	0.5 mg/kg	96.3	50.0	140	----
		Pyrene	129-00-0	E641A	0.398 mg/kg	0.5 mg/kg	99.5	50.0	140	----
		Quinoline	91-22-5	E641A	0.327 mg/kg	0.5 mg/kg	81.7	50.0	140	----

Qualifiers

Qualifier	Description
MS-B	*Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.*

Reference Material (RM) Report

A Reference Material (RM) is a homogenous material with known and well-established analyte concentrations. RMs are processed in an identical manner to test samples, and are used to monitor and control the accuracy and precision of a test method for a typical sample matrix. RM results are expressed as percent recovery of the target analyte concentration. RM targets may be certified target concentrations provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

					Reference Material (RM) Report				
					RM Target	Recovery (%)	Recovery Limits (%)		
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Concentration	RM	Low	High	Qualifier
Metals (QCLot: 1306887)									
	RM	Mercury	7439-97-6	E510	0.0585 mg/kg	102	70.0	130	----
Metals (QCLot: 1306888)									
	RM	Aluminum	7429-90-5	E440	9817 mg/kg	107	70.0	130	----
	RM	Antimony	7440-36-0	E440	3.99 mg/kg	107	70.0	130	----
	RM	Arsenic	7440-38-2	E440	3.73 mg/kg	94.8	70.0	130	----
	RM	Barium	7440-39-3	E440	105 mg/kg	101	70.0	130	----
	RM	Beryllium	7440-41-7	E440	0.349 mg/kg	102	70.0	130	----
	RM	Boron	7440-42-8	E440	8.5 mg/kg	107	70.0	130	----
	RM	Cadmium	7440-43-9	E440	0.91 mg/kg	99.9	70.0	130	----
	RM	Calcium	7440-70-2	E440	31082 mg/kg	95.8	70.0	130	----
	RM	Chromium	7440-47-3	E440	101 mg/kg	100	70.0	130	----
	RM	Cobalt	7440-48-4	E440	6.9 mg/kg	98.4	70.0	130	----
	RM	Copper	7440-50-8	E440	123 mg/kg	96.5	70.0	130	----
	RM	Iron	7439-89-6	E440	23558 mg/kg	101	70.0	130	----
	RM	Lead	7439-92-1	E440	267 mg/kg	101	70.0	130	----
	RM	Lithium	7439-93-2	E440	9.5 mg/kg	95.5	70.0	130	----
	RM	Magnesium	7439-95-4	E440	5509 mg/kg	102	70.0	130	----
	RM	Manganese	7439-96-5	E440	269 mg/kg	99.8	70.0	130	----
	RM	Molybdenum	7439-98-7	E440	1.03 mg/kg	104	70.0	130	----
	RM	Nickel	7440-02-0	E440	26.7 mg/kg	98.5	70.0	130	----
	RM	Phosphorus	7723-14-0	E440	752 mg/kg	99.0	70.0	130	----
	RM	Potassium	7440-09-7	E440	1587 mg/kg	96.3	70.0	130	----
	RM	Silver	7440-22-4	E440	4.06 mg/kg	89.8	70.0	130	----
	RM	Sodium	7440-23-5	E440	797 mg/kg	100	70.0	130	----
	RM	Strontium	7440-24-6	E440	86.1 mg/kg	105	70.0	130	----
	RM	Thallium	7440-28-0	E440	0.0786 mg/kg	102	70.0	130	----
	RM	Tin	7440-31-5	E440	10.6 mg/kg	99.5	70.0	130	----

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report: RM Target Concentration	Recovery (%): RM	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Metals (QCLot: 1306888) - continued									
	RM	Titanium	7440-32-6	E440	839 mg/kg	102	70.0	130	----
	RM	Uranium	7440-61-1	E440	0.52 mg/kg	99.1	70.0	130	----
	RM	Vanadium	7440-62-2	E440	32.7 mg/kg	99.0	70.0	130	----
	RM	Zinc	7440-66-6	E440	297 mg/kg	87.6	70.0	130	----
	RM	Zirconium	7440-67-7	E440	5.73 mg/kg	115	70.0	130	----
Metals (QCLot: 1306899)									
	RM	Aluminum	7429-90-5	E440	9817 mg/kg	111	70.0	130	----
	RM	Antimony	7440-36-0	E440	3.99 mg/kg	98.6	70.0	130	----
	RM	Arsenic	7440-38-2	E440	3.73 mg/kg	103	70.0	130	----
	RM	Barium	7440-39-3	E440	105 mg/kg	101	70.0	130	----
	RM	Beryllium	7440-41-7	E440	0.349 mg/kg	108	70.0	130	----
	RM	Boron	7440-42-8	E440	8.5 mg/kg	117	70.0	130	----
	RM	Cadmium	7440-43-9	E440	0.91 mg/kg	99.1	70.0	130	----
	RM	Calcium	7440-70-2	E440	31082 mg/kg	104	70.0	130	----
	RM	Chromium	7440-47-3	E440	101 mg/kg	103	70.0	130	----
	RM	Cobalt	7440-48-4	E440	6.9 mg/kg	104	70.0	130	----
	RM	Copper	7440-50-8	E440	123 mg/kg	99.0	70.0	130	----
	RM	Iron	7439-89-6	E440	23558 mg/kg	102	70.0	130	----
	RM	Lead	7439-92-1	E440	267 mg/kg	105	70.0	130	----
	RM	Lithium	7439-93-2	E440	9.5 mg/kg	114	70.0	130	----
	RM	Magnesium	7439-95-4	E440	5509 mg/kg	112	70.0	130	----
	RM	Manganese	7439-96-5	E440	269 mg/kg	106	70.0	130	----
	RM	Molybdenum	7439-98-7	E440	1.03 mg/kg	97.6	70.0	130	----
	RM	Nickel	7440-02-0	E440	26.7 mg/kg	105	70.0	130	----
	RM	Phosphorus	7723-14-0	E440	752 mg/kg	98.8	70.0	130	----
	RM	Potassium	7440-09-7	E440	1587 mg/kg	102	70.0	130	----
	RM	Silver	7440-22-4	E440	4.06 mg/kg	98.3	70.0	130	----
	RM	Sodium	7440-23-5	E440	797 mg/kg	103	70.0	130	----
	RM	Strontium	7440-24-6	E440	86.1 mg/kg	90.2	70.0	130	----
	RM	Thallium	7440-28-0	E440	0.0786 mg/kg	112	70.0	130	----
	RM	Tin	7440-31-5	E440	10.6 mg/kg	98.3	70.0	130	----

Sub-Matrix:

Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material (RM) Report: RM Target Concentration	Recovery (%): RM	Recovery Limits (%): Low	Recovery Limits (%): High	Qualifier
Metals (QCLot: 1306899) - continued									
	RM	Titanium	7440-32-6	E440	839 mg/kg	112	70.0	130	----
	RM	Uranium	7440-61-1	E440	0.52 mg/kg	94.0	70.0	130	----
	RM	Vanadium	7440-62-2	E440	32.7 mg/kg	104	70.0	130	----
	RM	Zinc	7440-66-6	E440	297 mg/kg	88.9	70.0	130	----
	RM	Zirconium	7440-67-7	E440	5.73 mg/kg	93.3	70.0	130	----
Metals (QCLot: 1306900)									
	RM	Mercury	7439-97-6	E510	0.0585 mg/kg	110	70.0	130	----
Speciated Metals (QCLot: 1306890)									
	RM	Chromium, hexavalent [Cr VI]	18540-29-9	E532	172 mg/kg	89.6	70.0	130	----
Speciated Metals (QCLot: 1309170)									
	RM	Chromium, hexavalent [Cr VI]	18540-29-9	E532	172 mg/kg	95.2	70.0	130	----

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Company:	AECOM	Select Report Format:	PDF ☑ EXCEL ☐ EDD (DIGITAL) ☐	Regular [R] ☑	Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:	Jonathan Ota / JEN Murray	Quality Control (QC) Report with Report	YES ☑ NO ☐	PRIORITY (Business Days) 4 day [P4-20%] ☐	EMERGENCY 1 Business day [E - 100%] ☐
Phone:	431-337-4575 / 204-803-9508	Compare Results to Criteria on Report - provide details below if box checked	☐	3 day [P3-25%] ☐	Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐
	Company address below will appear on the final report	Select Distribution:	EMAIL ☑ MAIL ☐ FAX ☐	2 day [P2-50%] ☐	
Street:	99 Commerce Drive	Email 1 or Fax	Jonathan.Ota@AECOM.com	Date and Time Required for all E&P TATs:	dd-mmm-yy hh:mm
City/Province:	Winnipeg	Email 2	JEN.Murray@AECOM.com	For tests that can not be performed according to the service level selected, you will be contacted.	
Postal Code:	R3P 0Y7	Email 3			
Invoice To	Same as Report To ☐ YES ☑ NO	**Invoice Distribution**		**Analysis Request**	
	Copy of Invoice with Report ☐ YES ☑ NO	Select Invoice Distribution:	EMAIL ☑ MAIL ☐ FAX ☐		
Company:	AECOM CANADA LTD	Email 1 or Fax	CANSSC.E-billing@aecom.com		
Contact:	Accounts Payable	Email 2			

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:	AECOM MSA	AFE/Cost Center:	PO#
Job #:	60660698	Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):		ALS Contact:	Sampler:

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below: BTEX, PHC F1-F4	PAHs	Metals	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
1	BH24-01-01	16-JAN-24		Soil	5	✓	✓	✓		
2	BH24-01-03				5	✓	✓	✓		
3	BH24-01-05				5	✓	✓	✓		
4	BH24-01-07				5	✓	✓	✓		
5	BH24-02-02				5	✓	✓	✓		
6	BH24-02-04				5	✓	✓	✓		
7	BH24-02-06				5	✓	✓	✓		
8	BH24-02-07				5	✓	✓	✓		
9	BH24-03-01				5	✓	✓	✓		
10	BH24-03-03				5	✓	✓	✓		
11	BH24-03-05				5	✓	✓	✓		
12	BH24-03-07				5	✓	✓	✓		

Environmental Division
Winnipeg
Work Order Reference
WP2401273
Telephone : +1 204 255 9720

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	
Are samples for human consumption/ use? ☐ YES ☐ NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐		SIF Observations	Yes ☐	No ☐	
Ice Packs ☐	Ice Cubes ☐	Custody seal intact	Yes ☐	No ☐	
Cooling Initiated ☐					

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
	8.9				

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date: JAN 17 2024	Time: 1:10	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 FRONT

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

ALS Environmental
www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

Affix ALS barcode label here (lab use only)

COC Number: 17 - 779684

Report To	Contact and company name below will appear on the final report
Company:	
Contact:	
Phone:	
Company address below will appear on the final report	
Street:	
City/Province:	
Postal Code:	
Invoice To	Same as Report To ☐ YES ☐ NO
	Copy of Invoice with Report ☐ YES ☐ NO
Company:	
Contact:	

Report Format / Distribution

Select Report Format: ☐ PDF ☐ EXCEL ☐ EDD (DIGITAL)
Quality Control (QC) Report with Report ☐ YES ☐ NO
☐ Compare Results to Criteria on Report - provide details below if box checked
Select Distribution: ☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax
Email 2
Email 3

Invoice Distribution

Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX
Email 1 or Fax
Email 2

Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)

Regular [R] ☐ Standard TAT if received by 3 pm - business days - no surcharges apply

PRIORITY (Business Days): 4 day [P4-20%] ☐ | 3 day [P3-25%] ☐ | 2 day [P2-50%] ☐

EMERGENCY: 1 Business day [E - 100%] ☐ | Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐

Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm

For tests that can not be performed according to the service level selected, you will be contacted.

Project Information

ALS Account # / Quote #:	
Job #:	
PO / AFE:	
LSD:	
ALS Lab Work Order # (lab use only):	

Oil and Gas Required Fields (client use)

AFE/Cost Center:	PO#
Major/Minor Code:	Routing Code:
Requisitioner:	
Location:	
ALS Contact:	Sampler:

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX, PHC F1-F4	PAHs	Metals	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
13	BH24-04-02	16-JAN-24		SOIL	5	✓	✓	✓		
4	BH24-04-04				5	✓	✓	✓		
5	BH24-04-06				5	✓	✓	✓		
6	BH24-04-07				5	✓	✓	✓		
7	BH24-05-01				5	✓	✓	✓		
8	BH24-05-03				5	✓	✓	✓		
9	BH24-05-05				5	✓	✓	✓		
20	BH24-05-07				5	✓	✓	✓		
1	BH24-06-02				5	✓	✓	✓		
2	BH24-06-04				5	✓	✓	✓		
3	BH24-06-06				5	✓	✓	✓		
24	BH24-06-07				5	✓	✓	✓		

Drinking Water (DW) Samples[1] (client use)

Are samples taken from a Regulated DW System? ☐ YES ☐ NO

Are samples for human consumption/ use? ☐ YES ☐ NO

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐
Ice Packs ☐ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐
Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C			
	8.9					

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date: JAN 17 2024	Time: 1:10	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 FRONT

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

ALS Environmental

www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

Affix ALS barcode label here (lab use only)

COC Number: 17 - 779941

Page 3 of 3

Report To	Contact and company name below will appear on the final report	Report Format / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)
Company:		Select Report Format: ☐ PDF ☐ EXCEL | | EDD (DIGITAL)	Regular [R] ☐ Standard TAT if received by 3 pm - business days - no surcharges apply
Contact:		Quality Control (QC) Report with Report ☐ YES ☐ NO	PRIORITY (Business Days): 4 day [P4-20%] ☐ / 3 day [P3-25%] ☐ / 2 day [P2-50%] ☐ — EMERGENCY: 1 Business day [E - 100%] ☐ / Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] ☐
Phone:		☐ Compare Results to Criteria on Report - provide details below if box checked	
	Company address below will appear on the final report	Select Distribution: ☐ EMAIL | | MAIL ☐ FAX	
Street:		Email 1 or Fax	Date and Time Required for all E&P TATs: dd-mmm-yy hh:mm
City/Province:		Email 2	For tests that can not be performed according to the service level selected, you will be contacted.
Postal Code:		Email 3	

Invoice To		Invoice Distribution
	Same as Report To ☐ YES ☐ NO	Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX
	Copy of Invoice with Report ☐ YES ☐ NO	
Company:		Email 1 or Fax
Contact:		Email 2

Project Information		Oil and Gas Required Fields (client use)	
ALS Account # / Quote #:		AFE/Cost Center:	PO#
Job #:		Major/Minor Code:	Routing Code:
PO / AFE:		Requisitioner:	
LSD:		Location:	
ALS Lab Work Order # (lab use only):		ALS Contact:	Sampler:

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	NUMBER OF CONTAINERS	BTEX, PHC F1-F4	PAHs	Metals	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)
25	BH24-07-02	16-JAN-24		SOIL	5	✓	✓	✓		
6	BH24-07-05				5	✓	✓	✓		
7	BH24-08-03				5	✓	✓	✓		
8	BH24-08-06				5	✓	✓	✓		
9	BH24-09-03				5	✓	✓	✓		
30	BH24-09-05				5	✓	✓	✓		
1	BH24-10-02				5	✓	✓	✓		
2	BH24-10-04				5	✓	✓	✓		
3	Dup-01				5	✓	✓	✓		
4	Dup-02				5	✓	✓	✓		
35	Dup-03				5	✓	✓	✓		

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)
Are samples taken from a Regulated DW System? ☐ YES ☐ NO	
Are samples for human consumption/ use? | | YES | | NO	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ SIF Observations Yes ☐ No ☐

Ice Packs ☐ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐

Cooling Initiated ☐

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C			
	8.9					

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by:	Date:	Time:	Received by:	Date: JAN 17 2024	Time: 1:10	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 FRONT

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Sample Intake					
Client: AECOM					
Cheque Enclosed with CoC	Yes	No			
Priority/Emergency Required (circle one)	Yes	No			
Time Sensitive Hold Time (circle one)	Yes	No			
Matrix (circle one)	Water	Soil/solid	Air	Biota	Other
# of Bottles received: 175					
Green/White		Yellow/Black			
Purple/White		Light blue/White			
Warm red/White		Orange/Black	90×40ml vial, 10×sm jar		
Dark Green/White		Dark Blue/White			
Grey/black		Black/white			
Other:					
Additional Comments:					

Login Check	Check yes if you have verified the following: Yes	N/A
Received date/time	✓	
Project/PO/LSD	✓	
Quote/Office match CoC	✓	
Sample IDs/Description	✓	
Sample Date/time	✓	
Sales Items as per CoC	✓	
Express Due Dates		✓
Client due date matches ALS Due date	✓	
Client recipient emails	✓	
Guidelines/thresholds added		✓
Billing/payment recorded		✓
Field data entered		✓
Sub-contracting Forms Printed		✓
SUBCO/Chromatograph added to client contacts for required analysis		✓
Are sub-samples required?		✓
Has a SIF been submitted for this WO?		✓
Has the SIF been resolved?		✓

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