



Omni-McCann

Phase II Environmental Site Assessment

Sangudo Raceway – Lot 1, BLK 1,
Plan 1023203, Sangudo, Alberta

Produced for:
Lac Ste. Anne County

Produced by:
Omni-McCann Inc.

Reference Number:
0199-0101

Date:
June 2024

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Geoscience | Engineering | Environment



EXECUTIVE SUMMARY

IMPORTANT: *This executive summary provides an overview of the main findings of the study to which it pertains. This executive summary does not provide a comprehensive report, and its review should not be considered a substitute for reading the report in its entirety.*

Omni-McCann Inc. (Omni-McCann) was retained by Lac Ste. Anne County (LSAC) to conduct a Phase II Environmental Site Assessment (ESA) of the Sangudo Raceway, Sangudo, Alberta (herein referred to as the 'site').

The objective of the Phase II ESA was to technically assess previously completed environmental reports, and to then develop and implement a field program to verify the presence or absence of contaminants of potential concern (COPCs) in the subsurface. The Phase II ESA was completed in general accordance with the Canadian Standards Association (CSA) Standard for Phase II ESAs (CSA, R2018).

Omni-McCann completed a Phase I ESA at the site in January 2024. Overall, the site appeared to be in acceptable environmental condition, and no specific areas of potential environmental concern were identified during the Phase I ESA. However, the longstanding usage of the site as a racetrack has the potential to have resulted in a series of incidental releases, either during the routine fueling and maintenance of racing vehicles or as a result of incidental releases during on-track accidents. A Phase II ESA was recommended to verify the presence or absence of COPCs at the site to support future redevelopment activities.

As part of the Phase II ESA 33 boreholes were advanced at the site, including 31 shallow boreholes advanced to systematically assess surficial soil quality and two full-depth boreholes to facilitate monitoring well installation and assessment of groundwater quality. Field observations and analytical results did not return any evidence of site contamination, with concentrations of all COPCs returned below the applied Tier 1 guidelines, and no visual or olfactory evidence of impacts.

Based on the results of the Phase II ESA, no evidence of site contamination has been identified. As such, no further investigation or remediation of the site is recommended at this time.



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1 INTRODUCTION

Omni-McCann Inc. (Omni-McCann) was retained by Lac Ste. Anne County (LSAC) to conduct a Phase II Environmental Site Assessment (ESA) of the Sangudo Raceway, Sangudo, Alberta (herein referred to as the 'site'). The site location is presented on **Figure 1** within **Appendix A**.

The objectives of the Phase II ESA were to technically assess previously completed environmental reports, and then develop and implement a field program to verify the presence or absence of contaminants of potential concern (COPCs) in the subsurface. The Phase II ESA was completed in general accordance with the Canadian Standards Association (CSA) standard for Phase II ESAs (CSA, R2018).

1.1 SITE SETTING

With a total size of approximately 3.9 Ha (9.7 acres), the site constitutes all of *Lot 1, BLK 1, Plan 102 3203, Sangudo, Alberta*, the adjoining portions of a road allowance to the north, and the southern-most area of the property legally described as a portion of SW-1-57-7-W5M on title number 213B147 which were historically utilized as part of the Sangudo Raceway. The site does not include the north and central areas of SW-1-57-7-W5M, operated as a baseball field and recreational park.

Irregularly shaped, the site has been improved with an earthen raceway located centrally on the property. The site has been developed with one permanent structure located along the northern site boundary and historically operated as a concession stand and race official/ announcers building during races.

The site is accessed via a gravelled driveway through the recreational park on SW-1-57-7-W5M. Further details on the site and surrounding properties are provided in **Figure 2** within **Appendix A**.

1.2 PREVIOUS ENVIRONMENTAL REPORTS

Omni-McCann completed a Phase I ESA at the site in January 2024. The Phase I ESA was carried out in general accordance with the CSA document Z768-01: Phase I Environmental Site Assessment (CSA, R2022). The purpose of the phase I ESA was to identify any actual or potential sources of site contamination. Salient information from the Phase I ESA is provided below:

- The site and surrounding areas were used primarily for recreational purposes beginning in approximately 1972. The current orientation of the track appears to have been constructed in the 1990s based on the reviewed records. It was reported to Omni-McCann that the site was operated as Sangudo Speedway until approximately 2018 and that no other operations have occurred at the site.



- Adjoining property usages include baseball diamonds and campground to the north, Sangudo Community School to the east, railway line and embankment to the south and Pembina River to the west.
- No evidence of actual site contamination or known large-volume releases, permanent chemical (i.e. fuel) storage, or other definitive sources of potential site contamination was returned as part of the records review, interview, or site visit portions of the Phase I ESA.
- The longstanding usage of the site as a racetrack has the potential to have resulted in a series of incidental releases, either during the routine fueling and maintenance of racing vehicles or as a result of incidental releases during on-track accidents. It was noted that most modern racing vehicles are typically equipped with fuel shut-off systems which would prevent excessive releases in the event of a rollover, however, given the length of time the site has been in operation there is the potential for releases to have occurred due to impacts which damaged fuel systems or prior to the implementation of fuel shut off systems.
- Recent Alberta Environment and Protected Areas (AEPA) approvals indicate that water from the Pembina River has been used for dust suppression on the racetrack. While the use of general oil for dust suppression is not typically used in the present day, the potential for it's historical use exists.
- Considering the above, a Phase II ESA was recommended to verify the presence or absence of COPCs at the site.



2 FIELD METHODS

2.1 OBJECTIVE

The objective of this Phase II ESA was to confirm or refute the presence of site contamination related to the potential sources identified in section 1.

2.2 SCOPE OF WORK

As part of the Phase II ESA, the following scope of work was conducted:

- Coordinating public utility locates in and around proposed drilling locations.
- Coordinate and oversee a drill program involving the following:
 - Advancement of 31 boreholes to a maximum depth of 1.5 m below ground surface (mbgs) to characterize surface soils within the racetrack and former pit area.
 - Advancement of two boreholes to a maximum depth of 6 mbgs to facilitate soil sampling and installation of two 51 mm diameter groundwater monitoring wells.
 - Collection of soil samples at regular intervals for field logging, screening, and potential laboratory analysis of COPCs.
- Development of the newly installed monitoring wells.
- Collecting groundwater samples from the monitoring wells on-site for analysis of one or more of the following COPCs:
 - Petroleum hydrocarbons (PHCs)
 - Benzene, toluene, ethylbenzene, xylenes (BTEX)
- Reviewing and technically interpreting all laboratory results.
- Summarizing the ESA findings in a report.

2.2.1 UTILITY LOCATES

Prior to commencing ground disturbance activities, Omni-McCann coordinated the marking of underground public utilities within the investigation area through Alberta One Call.



2.3 SOIL INVESTIGATION

As part of the Phase II ESA, a total of thirty-three boreholes were advanced at the site. Borehole locations were placed in the areas most likely to have been impacted by the identified sources of potential site contamination.

A summary of all borehole locations, rationale for each borehole location, monitoring well completion depths and details are provided in **Table 1** below and borehole locations are shown on **Figure 3** in **Appendix A**.

Table 1. Summary of Borehole Locations & Details

BH ID	Location	Rationale	Max. Depth ^A	Well Completion Details ^A
MW24-01	East end of former Pit Area	Assess groundwater quality	6	3.5 to 5.05
MW24-02	West end of former Pit Area	Assess groundwater quality	6	2.75 to 4.25
PH24-03 - PH24-21	Installed in approximate 20 m intervals along racetrack footprint	Assess for surface impacts from incidental releases	1.5	--
PH24-22 - PH24-33	Installed within former pit area in approximate 20 m X 20 m grid	Assess for surface impacts from incidental releases	1.5	--

^A – All depths in metres below ground surface (mbgs)

2.3.1 BOREHOLE DRILLING

Drilling was completed at the site on May 2, 2024, by SPT Drilling Ltd. (SPT) of St. Albert, Alberta using a B-48 truck mounted drill rig and continuous-flight, solid stem augers.

Throughout drilling activities, soil stratigraphy was logged by Omni-McCann personnel using the modified Unified Soil Classification System (USCS). Soil samples were collected at regular depth intervals of 0.4 m (1.3 ft), in addition to when there was a change in soil colour, texture, and/or an indication of possible contamination (visual or olfactory evidence).

At the time of collection, each soil sample was split in the field where half of the sample was placed in laboratory supplied containers and stored in coolers with ice for possible laboratory analysis,



and the other half of the sample was placed in sealed food grade plastic bags for field screening of headspace organic vapour concentrations (OVCs). Soil samples collected for potential analysis of PHC fraction F1 and BTEX were collected using a syringe-style sampler and preserved at the time of sample collection using clear, glass vials containing a pre-measured volume of methanol. Samples collected for potential analysis of PHC fractions F2 through F4 were collected in glass jars.

Headspace OVCs were measured and recorded from the bag sample headspace using a MiniRAE 3000 photoionization detector (PID) organic vapour meter calibrated to an isobutylene standard. The OVCs were measured in parts per million by volume of gas (ppmv) and recorded on the borehole logs (**Appendix B**).

Considering the project objectives, field observations, and screening results, a total of 36 soil samples including three blind duplicates were submitted to ALS Environmental (ALS) in Edmonton, Alberta for analysis of BTEX and PHCs.

2.4 GROUNDWATER INVESTIGATION

2.4.1 MONITORING WELL INSTALLATION

Two of the boreholes advanced as part of the Phase II ESA were instrumented as monitoring wells to facilitate an assessment of the groundwater conditions and quality. Both monitoring wells were completed above grade as stick-up wells with a steel casing.

The wells were constructed of threaded 51 mm diameter, schedule 40 polyvinylchloride (PVC) well screens and riser pipe. The screened interval of each well was placed to intercept the perceived location of the water table at the time of well installation.

A push-on cap was fitted to the bottom of the well screen and a clean silica sand pack was placed around each well screen to approximately 0.3 m above the screened interval. A bentonite seal was then placed above the sand pack to ground surface to prevent surface water infiltration into the monitoring wells and packs. The top of the PVC pipe inside the casing was sealed with a push-on cap. Monitoring well construction details are shown on the borehole logs in **Appendix B**.

2.4.2 GROUNDWATER MONITORING & SAMPLING

Omni-McCann returned to the site on May 15, 2024, to develop the newly installed monitoring wells. Prior to well development, depth to groundwater was measured in the monitoring wells using an RST Model 3001 electrical water level meter. The depth to groundwater was measured to the nearest centimeter from the highest point of the well riser. At the time of well development, both wells appeared to have silted in after installation and had limited water column. Wells were bailed



dry using dedicated high-density polyethylene (HDPE) bailers. The purge water was observed to be silty/muddy.

Omni-McCann personnel returned to the site on May 21, 2024, allowing sufficient time for the well to recover and conducted a groundwater sampling event. Discrete groundwater samples and one blind duplicate were collected from the monitoring wells using dedicated HDPE bailers. Groundwater samples were collected directly from the outlet of the bailer into laboratory-supplied containers precharged with preservative and placed in a cooler with ice packs pending submission to ALS for analysis of one or more COPCs.

2.5 QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

2.5.1 FIELD SAMPLING QUALITY ASSURANCE/QUALITY CONTROL

Soil and groundwater samples for laboratory analysis were placed in appropriate laboratory-supplied, clean sample containers and labeled with the project name and number, date, sample location identification, and type of analyses required. After collection, all samples were placed in laboratory-supplied, insulated coolers with the appropriate packing materials (i.e., bubble wrap and plastic bags) and ice packs for shipment to ALS under chain of custody documentation. Chain of custody forms were filled out and double checked against samples before coolers were submitted. Field sampling was completed according to standard protocols, including:

- Decontaminating non-dedicated sampling equipment with sulphate-free detergent (Alconox) and distilled water between sample locations;
- Donning a new pair of disposable nitrile gloves at each sample location;
- Using dedicated water sampling equipment at each well; and
- Calibration of field equipment prior to use in accordance with manufacturer instructions.

To demonstrate that the field sampling techniques utilized by Omni-McCann personnel are capable of yielding reproducible results and to verify the reproducibility of the laboratory analyses, Omni-McCann collected three blind duplicate sample pairs during soil sampling activities and one blind duplicate sample pair during groundwater sampling activities as outlined below:

Soil blind duplicate pairs:

- “PH 24-05” and “DUPE 01”
- “PH 24-18” and “DUPE 02”
- “PH 24-30” and “DUPE 03”



Water blind duplicate pair:

- “MW 24-02” and “MW 24-03”

The blind duplicate sample pairs were collected simultaneously using identical collection methods.

Sampling precision is measured by calculating the relative percentage difference (RPD) for the duplicate samples. Standards for evaluating the repeatability of duplicate samples are described by the Canadian Council of Ministers of Environment (CCME, 2016). This guidance document suggests the use of 60% RPD for solids and 40% RPD for liquids as QA/QC acceptance criteria. Concentration results less than 5 times the Lowest Detection Limit (LDL) become increasingly imprecise. Acceptance criteria are therefore relaxed for concentrations within 5 times the LDL; for concentrations less than 5 times the LDL it is recommended that the difference between duplicate sample concentrations should be less than 2 times the LDL (CCME, 2016). RPD is calculated as follows:

$$RPD = \frac{|x_1 - x_2|}{(x_1 + x_2)/2} \times 100\%$$

2.5.2 LABORATORY ANALYTICAL QUALITY ASSURANCE/QUALITY CONTROL

All samples were analyzed by ALS, a Canadian Association of Laboratory Accreditation (CALA) accredited laboratory that uses methods approved by Alberta’s Ministry of Environment and Protected Areas (AEPA) to conduct laboratory analyses. As conveyed by the laboratory, method blanks, control standards samples, certified reference material standards, method spikes, replicates, duplicates, and instrument blanks are routinely analyzed as part of their internal QA/QC programs. As an internal quality control measure, the project laboratory reports the results of laboratory prepared QA/QC analyses. If these criteria are not met, the laboratory is asked by Omni-McCann to either reanalyze the affected samples or qualify the results. The QA/QC report supplied by ALS is provided in **Appendix D**.



3 EVALUATION CRITERIA

Based on the available information collected as part of the previously completed Phase I ESA, the Alberta Tier 1 Soil and Groundwater Remediation Guidelines (AEP, 2023), for residential/parkland use are considered applicable at the site.

During borehole advancement, soils at the site were observed to be predominantly silty clay. Three soil samples were selected for particle size analysis (PSA) from varying soil depths and stratigraphy to characterize the dominant soil texture at the site. The analytical results returned 47.7%, 83.5% and 98.4% of material less than .075 mm. Two out of the three samples were classified as fine-grained and the third as marginally coarse. As such, AEP guidelines for fine-grained materials were considered when reviewing analytical results.



4 RESULTS

4.1 SOIL STRATIGRAPHY

A thin layer of topsoil/ organic soils were commonly observed at surface, followed by low to medium plastic silty clay. Similar materials were observed both in the racetrack and former pit area, indicating the racetrack was likely constructed of local borrow materials.

The two deeper boreholes, installed to facilitate monitoring well installation encountered some coarser-grained materials including a lower medium brown sand with increased soil content at approximately 3.0 to 3.6 mbgs (MW23-02 and MW24-01, respectively).

Further detail on encountered soils from the shallow boreholes are summarized in **Table B-1** and on borehole logs for the full-depth boreholes, both in **Appendix B**.

4.1.1 FIELD OBSERVATIONS

No visual or olfactory evidence of site contamination was identified during the logging of soils. Consistent with these observations, headspace OVC screening results were significantly low ranging from 0 to 0.6 ppmv. Headspace readings are presented in **Table B-1** and on the borehole logs in **Appendix B**.

Moisture content was generally observed to increase with depth at all borehole locations, with wet to saturated and saturated conditions noted in the lower sand unit at MW24-01 and MW24-02, respectively.

4.2 SOIL QUALITY RESULTS

Analytical results for all soil samples returned concentrations of all COPCs meeting the applied Tier 1 Guidelines.

Soil quality results are summarized in **Figure 4 (Appendix A)** and presented relative to the Tier 1 Guidelines in **Table C-1 (Appendix C)**. Laboratory Certificates of Analysis are included in **Appendix D** for reference.

4.3 GROUNDWATER CONDITIONS

Groundwater was observed to be present at approximately 3.55 mbgs at MW24-01 and 4.04 mbgs at MW24-02 at the time of well development, consistent with observations of increased moisture in the lower sand unit.



No groundwater flow direction was interpreted as part of the Phase II ESA as only two data points were available. This is not considered a significant limitation in consideration of the project objectives.

4.4 GROUNDWATER QUALITY RESULTS

Analytical results for all groundwater samples returned concentrations of all COPCs meeting the applied Tier 1 Guidelines.

Groundwater quality results are summarized in **Figure 5 (Appendix A)** and presented relative to the Tier 1 Guidelines in **Table C-2 (Appendix A)**. Laboratory Certificates of Analysis are included in **Appendix D** for reference.

4.5 QA/QC RESULTS

4.5.1 FIELD QA/QC

All samples from the soil BD pairs returned concentrations of all analyzed parameters below the LDL, as such no RPD could be calculated. This is not considered a significant limitation on the Phase II ESA as the LDL's were typically one or more orders of magnitude below the Tier 1 Guidelines for all parameters.

All samples from the groundwater BD pair returned concentrations of all analyzed parameters below the LDL with the exception of PHC F2 through F4 which were returned slightly above the LDL. The similarity between the detectable concentrations and LDL is accepted as indicative of reproducible results.

Laboratory QA/QC reports are included in the laboratory certificates of analysis provided in **Appendix D**. Omni-McCann reviewed the Laboratory QA/QC reports and did not note any issues which would impact overall confidence in the accuracy of the analytical data reported.

4.6 EVALUATION OF RESULTS

The results of the Phase II ESA indicate that the site has not been impacted by the identified sources of potential site contamination.



5 CONCLUSIONS AND RECOMMENDATIONS

Omni-McCann's 2024 Phase I ESA identified the historical usage of the site as a racetrack for a period of 40 to 50 years as a non-point source of potential site contamination. Through the installation of thirty-one shallow boreholes, and two full-depth boreholes completed as monitoring wells, Omni-McCann has concluded that no significant subsurface contamination is present at the site.

Based on the results of the Phase II ESA, no further investigation or remediation of the site is recommended at this time.



6 QUALIFICATION OF ASSESSORS

This Phase II ESA report was prepared by Sheffy Tom, M.Eng., with all Phase II ESA components completed under the direction of Grant Barker, P.Geo.

Sheffy Tom is a Junior Environmental Technical specialist at Omni-McCann and holds a Master of Engineering degree in Environmental Engineering, from the University of Manitoba.

Grant Barker is a Professional Geoscientist (P.Geo.) licensed with the Association of Professional Engineers and Geoscientists of Alberta (APEGA), Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS), Professional Geoscientists Ontario (PGO), and the Nunavut and Northwest Territories Association of Professional Engineers and Geoscientists (NAPEG). As both a project manager and technical advisor, Grant is experienced in contaminated site assessment and remediation and the environmental compliance process for greenfield and brownfield industrial sites. Grant oversees the contaminated lands and site assessment portfolio at Omni-McCann.



7 LIMITATIONS

This report was prepared exclusively for the purposes, project and site locations outlined in the report. The report is based on information provided to, or obtained by Omni-McCann, as indicated in the report, and applies solely to site conditions existing at the time of the site investigation. The sampling plan formulated by Omni-McCann represents a reasonable plan in response to the review of available information within an established work scope, schedule, and budget. Although a reasonable investigation was conducted by Omni-McCann, Omni-McCann's investigation was by no means exhaustive and cannot be construed as a certification of absence of any contaminants from the site. Rather, Omni-McCann's report represents a reasonable review of available information within an established work scope, schedule, and budget. It is therefore possible that currently unrecognized contamination or potentially hazardous materials may exist at the site, and the levels of contamination or hazardous materials may vary across the site. Further review and updating of the report may be required as local and site conditions, and the regulatory and planning frameworks, change over time.

This report was prepared by Omni-McCann for the benefit of Lac Ste. Anne County. The material in it reflects Omni-McCann's judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Omni-McCann accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

Respectfully Submitted,

Omni-McCann Inc.
Permit to Practice No. P14798

Grant Barker, P.Geo.



8 REFERENCES

AEP. (2023). Alberta Tier 1 Soil and Groundwater Remediation Guidelines, Land Policy 2023, No.4. Alberta Environment and Parks.

AGS. (2013). Surficial Geology of Alberta Map 601. Prepared for Alberta Energy Regulator.

CCME. (2016). Guidance Manual for Environmental Characterization in Support of Environmental and Human Health Risk Assessment, Volume 1. Canadian Council of Ministers of the Environment.

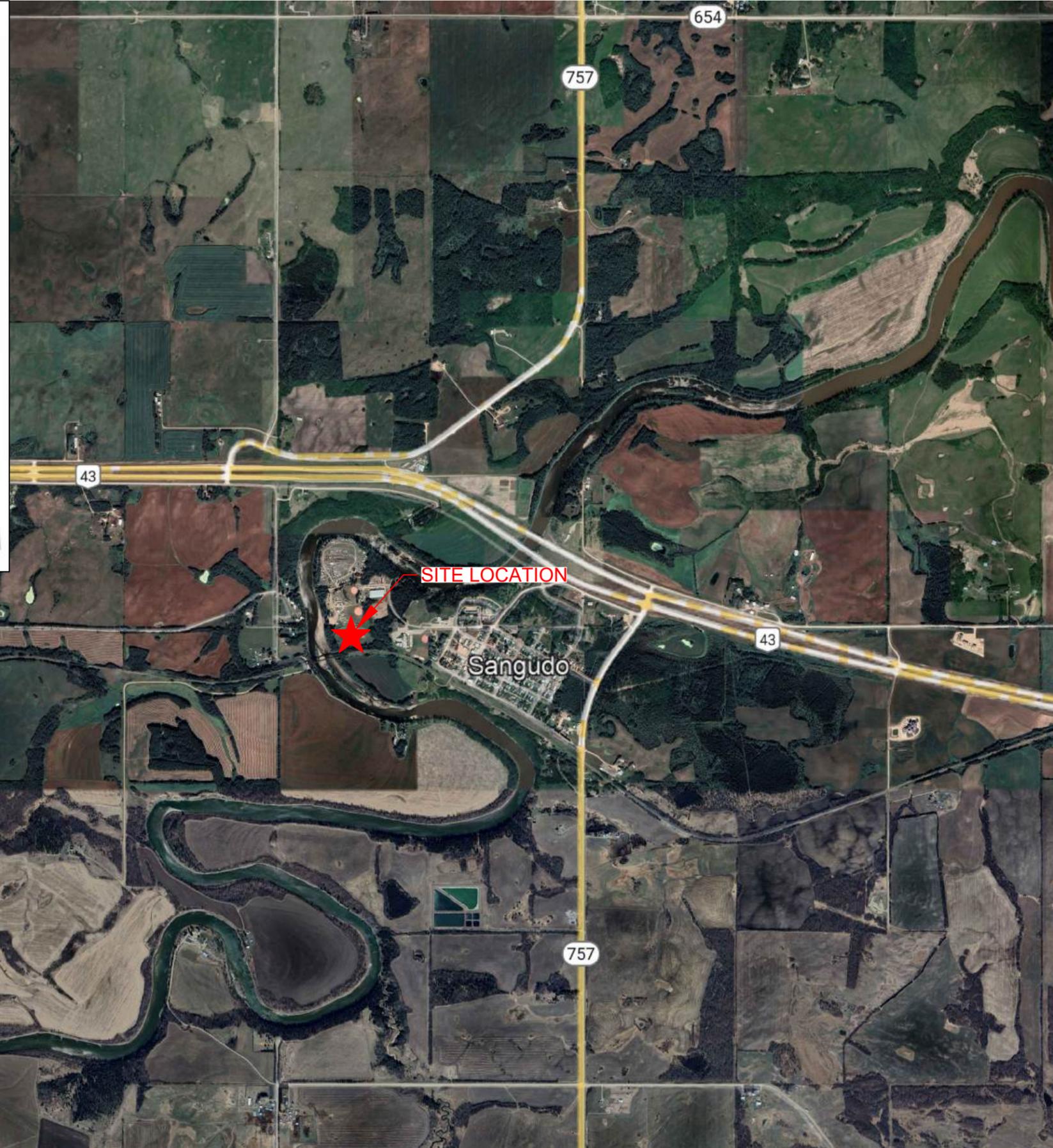
CSA. (R2022). CAN/CSA-Z769-00: Phase II Environmental Site Assessment. Canadian Standards Association.

Omni-McCann. (2024). Phase I Environmental Site Assessment, Sangudo Raceway, Sangudo, Alberta. Produced for Lac Ste. Anne County. Edmonton: Omni-McCann Inc.



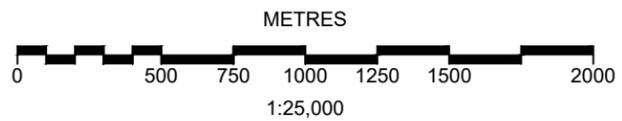
APPENDIX A

Figures



**LAC STE ANNE COUNTY
SANGUDO RACEWAY
PROJECT NO. 0199-0101
S.W SEC. 1-57-7-W5M, SANGUDO, AB.
PHASE II ENVIRONMENTAL
SITE ASSESSMENT**

JUNE, 2024



Legend

SITE LOCATION

**FIGURE 1
SITE LOCATION**



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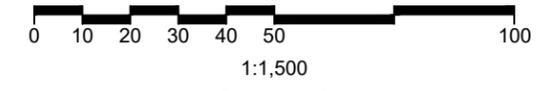
LAC STE ANNE COUNTY SANGUDO RACEWAY PROJECT NO. 0199-0101

S.W SEC. 1-57-7-W5M, SANGUDO, AB.
PHASE II ENVIRONMENTAL
SITE ASSESSMENT

JUNE, 2024



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 SITE BOUNDARY

FIGURE 2
SITE PLAN



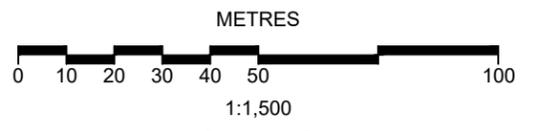
C:\Users\MonaGenovey\Omni-McCann\Geoscience\Omni-McCann - Sangudo Raceway\01 - S.W. 1-57-7-W5M - Sangudo Raceway\01 - S.W. 1-57-7-W5M - PH II ESA-FIG 3.dwg
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LAC STE ANNE COUNTY SANGUDO RACEWAY PROJECT NO. 0199-0101

S.W. SEC. 1-57-7-W5M, SANGUDO, AB.
PHASE II ENVIRONMENTAL
SITE ASSESSMENT

JUNE, 2024



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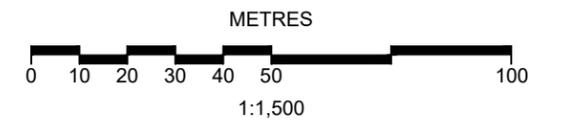
-  SITE BOUNDARY
-  PH24-03 SHALLOW BOREHOLE LOCATION
-  MW24-01 MONITORING WELL LOCATION & NUMBER

FIGURE 3
PHASE II ESA WORK PLAN



LAC STE ANNE COUNTY
 SANGUDO RACEWAY
 PROJECT NO. 0199-0101
 S.W. SEC. 1-57-7-W5M, SANGUDO, AB.
 PHASE II ENVIRONMENTAL
 SITE ASSESSMENT

JUNE, 2024



Legend

-  SITE BOUNDARY
-  PH24-03 SOIL SAMPLING LOCATION MEETING APPLIED GUIDELINES
-  PH24-03 SOIL SAMPLING LOCATION EXCEEDING APPLIED GUIDELINES

FIGURE 4
 SOIL QUALITY RESULTS



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C:\Users\MonaGenovey\Omni-McCann\Geoscience\Omni-McCann - Sangudo Raceway\01 - ESA - I\Drawings\0199-0101-PH II ESA-FIG 4.dwg
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C:\Users\MonaGenovey\Omni-McCann\Geoscience\Projects\199 - LSA County\1 - Sangudo Raceway\01 - ESA-FIG 5.dwg
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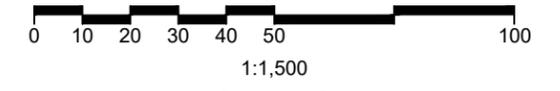
LAC STE ANNE COUNTY SANGUDO RACEWAY PROJECT NO. 0199-0101

S.W. SEC. 1-57-7-W5M, SANGUDO, AB.
**PHASE II ENVIRONMENTAL
SITE ASSESSMENT**

JUNE, 2024



METRES



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-  SITE BOUNDARY
-  MW24-01 MONITORING WELL LOCATION WITH GROUNDWATER PARAMETERS BELOW APPLIED GUIDELINE
-  MW24-01 MONITORING WELL LOCATION WITH GROUNDWATER PARAMETERS ABOVE APPLIED GUIDELINE

FIGURE 5
GROUNDWATER QUALITY RESULTS





APPENDIX B

Borehole Logs



Project Number: 0199-0101
Project Name: Sangudo Raceway
Client: Lac Ste Anne County
Address: Sangudo, Alberta
Drilling Date: 05/02/2024

Drilling Company: SPT Drilling
Driller: -
Drill Rig: B47
Drilling Method: Auger
Total Depth: 5.35 m
Borehole Diameter: 0.15 m

Coordinates: 53.889348, -114.913137
Coords Sys: Lat/Lon
Surface Elevation: ~661.1 m
Logged By: JRB
Checked By: -

Comments -

Table with columns: Depth (m), Elevation (m), Graphic Log, Visual Classification and Remarks, Samples (Depth of Sample, Sample Number, Sample Graphic, % Recovery), PID (0, 500, 1000), Well (0.075, 0, 0.075). Rows describe soil layers from 0 to 5.35 m depth.

End of Test Hole at 5.35 m - 51 mm dia. PVC well installed to 5.05 m bgl, Machine slotted intake from 3.5 to 5.05 m bgl, sand pack from 3.05 to 5.05 m bgl, bentonite seal from surface to 3.05 m bgl, locked steel casing protector installed over well, casing stick-up= 0.63 m

Graphics Legend

- After Drilling (AD)
Silty Topsoil
Silty Clay
Sandy Silty Glacial Till (Clay)
Sandy Gravel
gravelly cobbles
Sand
Bentonite Chips
Sand
Auger - Auger Sample
Full Casing PVC
Slotted PVC

Water Levels

- Water level @ 3.55 m bgl on May 15, 2024, 13 days after drilling



Project Number: 0199-0101
Project Name: Sangudo Raceway
Client: Lac Ste Anne County
Address: Sangudo, Alberta
Drilling Date: 05/02/2024

Drilling Company: SPT Drilling
Driller: -
Drill Rig: B47
Drilling Method: Auger
Total Depth: 4.55 m
Borehole Diameter: 0.15 m

Coordinates: 53.88932, -114.912618
Coords Sys: Lat/Lon
Surface Elevation: ~662.0 m
Logged By: JRB
Checked By: -

Comments -

Table with columns: Depth (m), Elevation (m), Graphic Log, Visual Classification and Remarks, Samples (Depth of Sample, Sample Number, Sample Graphic, % Recovery), PID (0, 500, 1000), Well (0.075, 0, 0.075). Includes soil descriptions like TOPSOIL, CLAY, and SAND, and sample numbers 24-2-1, 24-2-2, 24-2-3.

End of Test Hole at 4.55 m - 51 mm dia. PVC well installed to 4.25 m bgl, Machine slotted intake from 2.75 to 4.25 m bgl, sand pack from 2.45 to 4.25 m bgl, bentonite seal from surface to 4.45 m bgl, locked steel casing protector installed over well, casing stick-up= 0.70 m

Graphics Legend

- Silty Topsoil
silty clay
Sand
Bentonite Chips
Sand

- Slough
Auger
Full Casing PVC
Slotted PVC

Water Levels

Water Level @ 4.04 m bgl on May 15, 2024, 13 days after drilling

Water level indicator lines and symbols.



Table B-1: Summary of Shallow Boreholes

Borehole ID	Depth (m)	Soil Description	Sample Depth (m)	PID Vapor Reading - PPM
PH24-3	0 - 0.6	Fill Soils: Silty Clay, trace of organic soils, dark brown, damp, hard, medium to high plastic	0.5	0.2
	0.6 - 1.5	Native Clay: Silty, dark brown, moist, stiff, low to medium plastic		
PH24-4	0.0 - 1.5	Native Silt: Some clay, medium brown, moist, stiff, non to slight plasticity	0.4	0.0
PH24-5	0 - 0.6	Fill Soils: Silty Clay, trace of organic soils, dark brown, damp, stiff, medium to high plastic	0.4 Duplicate #1	0.0
	0.6 - 1.5	Native Silt: Some clay, medium brown, stiff, non to slight plasticity		
PH24-6	0 - 0.05	Topsoil: Silty, organic, dark brown, damp to moist, loose		
	0.05 - 1.5	Native Silt: light brown, dry to damp, loose, non plastic	0.4	0.2
PH24-7	0.0 - 1.5	Native Silt: light brown, dry to damp, loose, non plastic	0.4	0.0
PH24-8	0 - 0.3	Fill Soils: Mixed Clay Soils, trace of organic soils, dark brown, damp to moist, stiff, medium plastic		
	0.3 - 1.5	Native Silt: Some clay, medium brown, stiff, non to slight plasticity	0.4	0.0
PH24-9	0 - 0.1	Fill Soils: Mixed Clay/Organics Soils, dark brown, damp to moist, loose		
	0.1 - 1.5	Native Silt: Some clay, medium brown, stiff, non to slight plasticity	0.4	0.3
PH24-10	0.0 - 1.5	Native Silt: light brown, dry to damp, loose, non plastic	0.4	0.0
PH24-11	0 - 0.3	Fill Soils: Sand/Silt (reworked local soils) medium brown, damp to moist, loose, non plastic, very fine grained		
	0.3 - 1.5	Native Silt: trace of clay, light brown, damp, firm/loose, non to very slight plasticity	0.4	0.3
PH24-12	0 - 0.1	Fill Soils: Mixed Clay/Organics Soils, dark brown, damp to moist, loose		
	0.1 - 1.5	Native Silt: slightly clayey, light brown, damp, firm/loose, non to slight plasticity	0.4	0.0
PH24-13	0.0 - 1.5	Native Silt: light brown, dry to damp, loose, non plastic	0.4	0.2
PH24-14	0.0 - 1.5	Native Silt/Sand: light brown, dry to damp, loose, non plastic, very fine grained	0.4	0.1
PH24-15	0.0 - 1.5	Native Silt/Sand: light brown, dry to damp, loose, non plastic, very fine grained	0.4	0.1
PH24-16	0.0 - 1.5	Native Silt: trace of sand, light brown, damp, loose, non plastic	0.4	0.0
PH24-17	0.0 - 1.5	Native Silt: light brown, dry to damp, loose, non plastic	0.4	0.0
PH24-18	0.0 - 1.5	Native Silt: clayey in places, light brown, damp, firm/loose, slight plasticity	0.4 Duplicate #2	0.0
PH24-19	0.0 - 1.5	Native Silt: trace of clay, light brown, damp, loose, non to slight plasticity	0.4	0.0
PH24-20	0.0 - 1.5	Native Silt: trace of clay, light brown, damp, loose, non to slight plasticity	0.4	0.0
PH24-21	0 - 0.45	Fill Soils: Silty Clay, trace of organic soils, dark brown, damp, stiff, medium to high plastic		
	0.45 - 1.5	Native Silt: some clay, medium brown, damp, stiff, non to slight plasticity	0.4	0.2

Borehole ID	Depth (m)	Soil Description	Sample Depth (m)	PID Vapor Reading - PPM
PH24-22	0.0 - 1.5	Native Clay: Silty, dark brown, moist, firm, medium plastic	0.4	0.3
PH24-23	0 - 1.2	Native Silt: Clayey, dark brown, damp, firm, low plastic		
	1.2 - 1.5	Clay Till: Silty/Sand, medium brown, moist, stiff, low to medium plastic, rare pebbles/coal chips	0.4	0.1
PH24-24	0.0 - 1.5	Native Silt: trace of clay, light brown, damp, loose, non to slight plasticity	0.4	0.1
PH24-25	0.0 - 1.5	Native Clay/Silt: Silty Clay that grades into Clayey Silt with depth, dark brown, moist, firm, medium to non plastic with depth	0.4	0.6
PH24-26	0 - 1.0	Native Clay: Silty, dark brown, very moist, soft to firm, low to medium plastic		
	1.0 - 1.5	Clay Till: Silty/Sandy, medium brown, very moist, soft to firm, low to medium plastic, rare pebbles	0.4	0.1
PH24-27	0 - 1.5	Native Silt: Clayey, medium brown, very moist, soft, very low to non plastic - Grades into Clayey Sand with depth	0.4	0.4
PH24-28	0 - 0.15	Fill/Organic Soils: Mixed Clay/Organics Soils, dark brown, damp to moist, loose		
	0.15 - 1.5	Native Silt: Sandy/Clayey, medium brown, moist, firm/loose, non to slight plasticity	0.4	0.4
PH24-29	0.0 - 1.5	Native Silt: Clayey, light brown, moist, loose, slight to low plasticity	0.4	0.0
PH24-30	0.0 - 1.5	Native Silt: trace of clay, light brown, damp, loose, non plastic	0.4 Duplicate #3	0.3
PH24-31	0.0 - 1.5	Native Silt: trace of clay, light brown, dry to damp, loose, non plastic	0.4	0.3
PH24-32	0.0 - 1.5	Native Clay/Silt: Silty Clay that grades into Clayey Silt with depth, dark brown, moist, firm, medium to non plastic with depth	0.4	0.0
PH24-33	0 - 1.5	Native Silt: Clayey, medium brown, moist, firm, slight to low plastic, sandy zones in places	0.4	0.4



APPENDIX C

Analytical Summary Tables

Project: 0199-0101
 Lac Ste. Anne County
 Phase II ESA, Sanguo raceway, Sandgudo, AB

Table C-1: Soil Analytical - PHCs & BTEX

Client Sample ID							MW 24-01	MW 24-02	PH 24-03	PH 24-04	PH 24-05	PH 24-06	PH 24-07	PH 24-08	PH 24-09	PH 24-10	PH 24-11	PH 24-12	
Date Sampled							2-May-24	2-May-24											
Depth (mbgs)							0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Analyte	LDL	Units	AB Tier 1 Fine Soil		AB Tier 1 Coarse Soil		Sub-Matrix:												
			Sub Soils	Soils	Sub Soils	Soils													
Particle Size																			
sand (>0.075mm)	1	%																1.6	
finer (<0.075mm)	1	%																98.4	
texture class																		fine	
Physical Tests																			
Moisture	0.25	%					25.2	28.9	23	20.8	16.6	17	10.8	24.9	21.3	16.3	11.2	19.2	
Petroleum Hydrocarbons																			
benzene	0.0050	mg/kg	0.046	0.046	0.078	0.078	<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	0.050	mg/kg	0.52	0.52	0.12	0.12	<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	0.015	mg/kg	0.073	0.073	0.14	0.14	<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	0.075	mg/kg	0.99	0.99	1.9	1.9	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	
F1 (C6-C10)	5.0	mg/kg	420	210	440	270	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
F2 (C10-C16)	25	mg/kg	300	150	520	260	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
F3 (C16-C34)	50	mg/kg	2600	1300	3400	1700	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
F4 (C34-C50)	50	mg/kg	10,000	5600	6600	3300	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	

Client Sample ID							PH 24-13	PH 24-14	PH 24-15	PH 24-16	PH 24-17	PH 24-18	PH 24-19	PH 24-20	PH 24-21	PH 24-22	PH 24-23	PH 24-24	
Date Sampled							2-May-24	2-May-24											
Depth (mbgs)							0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Analyte	LDL	Units	AB Tier 1 Fine Soil		AB Tier 1 Coarse Soil		Sub-Matrix:												
			Sub Soils	Soils	Sub Soils	Soils													
Particle Size																			
sand (>0.075mm)	1	%																52.3	
finer (<0.075mm)	1	%																47.7	
texture class																		coarse	
Physical Tests																			
Moisture	0.25	%					15.6	14.2	10.9	14.9	14.6	14.9	14.6	22.5	21.2	28	23.7	13.7	
Petroleum Hydrocarbons																			
benzene	0.0050	mg/kg	0.046	0.046	0.078	0.078	<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	0.050	mg/kg	0.52	0.52	0.12	0.12	<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	0.015	mg/kg	0.073	0.073	0.14	0.14	<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	0.075	mg/kg	0.99	0.99	1.9	1.9	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	
F1 (C6-C10)	5.0	mg/kg	420	210	440	270	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
F2 (C10-C16)	25	mg/kg	300	150	520	260	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
F3 (C16-C34)	50	mg/kg	2600	1300	3400	1700	<50	<50	<50	<50	<50	<50	<50	57	<50	<50	<50	<50	
F4 (C34-C50)	50	mg/kg	10,000	5600	6600	3300	<50	<50	<50	<50	<50	<50	<50	52	<50	<50	<50	<50	

Client Sample ID							PH 24-25	PH 24-26	PH 24-27	PH 24-28	PH 24-29	PH 24-30	PH 24-31	PH 24-32	PH 24-33	DUPE 01	DUPE 02	DUPE 03	
Date Sampled							2-May-24	2-May-24											
Depth (mbgs)							0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Analyte	LDL	Units	AB Tier 1 Fine Soil		AB Tier 1 Coarse Soil		Sub-Matrix:												
			Sub Soils	Soils	Sub Soils	Soils													
Particle Size																			
sand (>0.075mm)	1	%																16.5	
finer (<0.075mm)	1	%																83.5	
texture class																		fine	
Physical Tests																			
Moisture	0.25	%					17.9	21.7	19.8	21.3	11.8	11.8	19.6	22.6	18.1	15.1	16.1	10.6	
Petroleum Hydrocarbons																			
benzene	0.0050	mg/kg	0.046	0.046	0.078	0.078	<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	0.050	mg/kg	0.52	0.52	0.12	0.12	<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	0.015	mg/kg	0.073	0.073	0.14	0.14	<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	0.075	mg/kg	0.99	0.99	1.9	1.9	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	
F1 (C6-C10)	5.0	mg/kg	420	210	440	270	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
F2 (C10-C16)	25	mg/kg	300	150	520	260	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
F3 (C16-C34)	50	mg/kg	2600	1300	3400	1700	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
F4 (C34-C50)	50	mg/kg	10,000	5600	6600	3300	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	

Notes: LDL: Lowest detection limit
 <#.## Concentration below reported detection limit (detection limit shown)
 NV No value
 AB Tier 1: Alberta Tier 1 Remediation Guidelines for fine grained soil at an industrial property.
 Red Concentration exceeds AB Tier 1 Value



Project: 0199-0101

Lac. Ste. Anne County

Phase II ESA, Sangudo raceway, Sandgudo, AB

Table C-2. Groundwater Analytical - PHCs & BTEX

Client Sample ID				MW24-01	MW24-02	MW24-03
Date Sampled				21-May-24	21-May-24	21-May-24
Analyte	LDL	Units	AB Tier 1	Matrix: Water	Matrix: Water	Matrix: Water
			Fine			
Petroleum Hydrocarbons						
benzene	0.5	µg/L	5	<0.50	<0.50	<0.50
ethylbenzene	0.5	µg/L	1.6	<0.50	<0.50	<0.50
toluene	0.5	µg/L	24	<0.50	<0.50	<0.50
xylenes, total	0.75	µg/L	20	<0.75	<0.75	<0.75
F1 (C6-C10)	100	µg/L	2200	<100	<100	<100
F2 (C10-C16)	100	µg/L	1100	<100	<100	140
F3 (C16-C34)	250	µg/L	NV	<250	<250	330
F4 (C34-C50)	250	µg/L	NV	<250	<250	280

Notes: LDL: Lowest detection limit

"<#.###" Concentration below reported detection limit (detection limit shown)

NV No value

AB Tier 1: Alberta Tier 1 Remediation Guidelines for fine grained soil at an industrial property.

Red + Bold Concentration exceeds AB Tier 1 Value



APPENDIX D

Laboratory Certificates of Analysis

CERTIFICATE OF ANALYSIS

Work Order	: EO2403252	Page	: 1 of 38
Client	: Omni-McCann Inc.	Laboratory	: ALS Environmental - Edmonton
Contact	: Grant Barker	Account Manager	: Kieran Tordoff
Address	: 2404 96 Street Edmonton AB Canada T6N 1J8	Address	: 9450 - 17 Avenue NW Edmonton AB Canada T6N 1M9
Telephone	: 306 343 5500	Telephone	: +1 780 413 5227
Project	: 0199-01-01	Date Samples Received	: 03-May-2024 14:53
PO	: 0199-01-01	Date Analysis	: 04-May-2024
		Commenced	
C-O-C number	: ----	Issue Date	: 10-May-2024 12:19
Sampler	: ST/JRB		
Site	: ----		
Quote number	: Edmonton General - Soil - 2024 Rates		
No. of samples received	: 36		
No. of samples analysed	: 36		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Geoff Berg	Lab Analyst	Organics, Edmonton, Alberta
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Kuljeet Chawla		Inorganics, Calgary, Alberta
Roseanne Drake	Lab Assistant	Organics, Edmonton, Alberta



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).

Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.

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.

<i>Unit</i>	<i>Description</i>
-	no units
%	percent
mg/kg	milligrams per kilogram

>: greater than.

<: less than.

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

EO2403252-001

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: MW 24-01

Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	25.2	± 1.48	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	81.8	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	74.0	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	77.8	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	73.8	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-002

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: MW 24-02
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	28.9	± 1.70	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.2	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	72.7	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	85.4	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	81.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-003

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-03
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	23.0	± 1.35	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	50	± 18	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.2	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	71.4	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	91.3	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Diffuorobenzene, 1,4-	540-36-3	86.6	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-004

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-04
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	20.8	± 1.23	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.8	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	81.0	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	89.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	87.4	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-005

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-05
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	16.6	± 0.98	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.1	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	71.7	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.5	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	85.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-006

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-06
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	17.0	± 1.01	0.25	%	E144/EO	-	04-May-2024	1428825
Particle Size									
Sand (>0.075mm)	----	1.6	± 3.7	1.0	%	E178/CG	-	10-May-2024	1436759
Fines (<0.075mm)	----	98.4	-	1.0	%	E178/CG	-	10-May-2024	1436759
Texture class	----	Fine	-	-	-	E178/CG	-	10-May-2024	1436759
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.9	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	87.7	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	95.6	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	90.9	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-007

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-07
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	10.8	± 0.65	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.7	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	88.9	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	95.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Diffuorobenzene, 1,4-	540-36-3	90.5	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-008

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-08
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	24.9	± 1.47	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.7	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	81.4	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	89.3	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Diffuorobenzene, 1,4-	540-36-3	84.8	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-009

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-09
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	21.3	± 1.26	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.6	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	83.6	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	99.7	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	86.4	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-010

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-10
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	16.3	± 0.97	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	88.1	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	78.4	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	96.4	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	92.8	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-011

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-11
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	11.2	± 0.67	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.0	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	92.9	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	103	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Diffuorobenzene, 1,4-	540-36-3	97.2	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-012

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-12
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	19.2	± 1.14	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.5	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	70.2	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	83.8	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	82.9	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-013

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-13
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	15.6	± 0.93	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.3	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	73.6	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	84.1	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	80.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-014

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-14
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	14.2	± 0.84	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	83.1	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	73.4	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.4	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Diffuorobenzene, 1,4-	540-36-3	81.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-015

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-15
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	10.9	± 0.65	0.25	%	E144/EO	-	04-May-2024	1428825
Particle Size									
Sand (>0.075mm)	----	52.3	± 3.7	1.0	%	E178/CG	-	10-May-2024	1436759
Fines (<0.075mm)	----	47.7	-	1.0	%	E178/CG	-	10-May-2024	1436759
Texture class	----	Coarse	-	-	-	E178/CG	-	10-May-2024	1436759
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.8	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	75.7	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	96.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	88.9	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-016

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-16
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	14.9	± 0.89	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	82.9	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	72.2	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	91.9	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	86.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-017

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-17
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	14.6	± 0.87	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	85.1	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	71.4	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	86.5	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	79.7	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-018

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-18
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	14.9	± 0.89	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	87.0	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	72.6	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	92.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Diffuorobenzene, 1,4-	540-36-3	86.1	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-019

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-19
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	14.6	± 0.87	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	87.5	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	72.1	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	95.1	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	87.1	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-020

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-20
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	22.5	± 1.33	0.25	%	E144/EO	-	04-May-2024	1428825
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428780
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428781
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F3 (C16-C34)	----	57	± 20	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
F4 (C34-C50)	----	52	± 21	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428811
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428811
Hydrocarbons, total (C6-C50)	n/a	109	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	92.1	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428811
Dichlorotoluene, 3,4-	95-75-0	73.9	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428781
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.1	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780
Difluorobenzene, 1,4-	540-36-3	85.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428780

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

EO2403252-021

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-21
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	21.2	± 1.25	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	87.8	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	85.9	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	105	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Difluorobenzene, 1,4-	540-36-3	96.6	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-022

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-22
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	28.0	± 1.65	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.6	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	75.5	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	88.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Difluorobenzene, 1,4-	540-36-3	84.5	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-023

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-23
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	23.7	± 1.40	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	87.0	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	73.9	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	89.4	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Difluorobenzene, 1,4-	540-36-3	85.9	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-024

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-24
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	13.7	± 0.82	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.4	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	73.6	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	94.1	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Diffuorobenzene, 1,4-	540-36-3	89.6	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-025

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-25
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	17.9	± 1.06	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	88.5	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	74.5	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	94.3	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Diffuorobenzene, 1,4-	540-36-3	88.2	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-026

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-26
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	21.7	± 1.28	0.25	%	E144/EO	-	04-May-2024	1428827
Particle Size									
Sand (>0.075mm)	----	16.5	± 3.7	1.0	%	E178/CG	-	10-May-2024	1436759
Fines (<0.075mm)	----	83.5	-	1.0	%	E178/CG	-	10-May-2024	1436759
Texture class	----	Fine	-	-	-	E178/CG	-	10-May-2024	1436759
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	91.8	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	76.2	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	91.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Difluorobenzene, 1,4-	540-36-3	86.8	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-027

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-27
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	19.8	± 1.17	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	88.2	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	73.6	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	94.4	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Difluorobenzene, 1,4-	540-36-3	91.8	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-028

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-28
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	21.3	± 1.26	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.2	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	79.0	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	87.1	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Diffuorobenzene, 1,4-	540-36-3	89.1	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-029

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-29
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	11.8	± 0.71	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.6	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	72.7	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	93.8	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Diffuorobenzene, 1,4-	540-36-3	83.3	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-030

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-30
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	11.8	± 0.71	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	92.4	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	74.9	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	94.1	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Difluorobenzene, 1,4-	540-36-3	89.6	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-031

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-31
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	19.6	± 1.16	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.0	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	72.9	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	91.8	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Diffuorobenzene, 1,4-	540-36-3	88.5	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-032

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-32
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	22.6	± 1.33	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	96.8	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	74.2	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	92.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Difluorobenzene, 1,4-	540-36-3	87.2	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-033

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: PH 24-33
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	18.1	± 1.07	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	90.2	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	76.4	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	90.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Difluorobenzene, 1,4-	540-36-3	85.4	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-034

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: DUPE 01
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	15.1	± 0.90	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	88.0	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	80.1	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	97.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Diffuorobenzene, 1,4-	540-36-3	92.3	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-035

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: DUPE 02
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	16.1	± 0.96	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	89.8	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	80.5	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	87.0	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Difluorobenzene, 1,4-	540-36-3	79.3	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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

EO2403252-036

Sub-Matrix: Soil
 (Matrix: Soil/Solid)

Client sample ID: DUPE 03
 Client sampling date / time: 02-May-2024

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Physical Tests									
Moisture	----	10.6	± 0.64	0.25	%	E144/EO	-	04-May-2024	1428827
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.0050	-	0.0050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Ethylbenzene	100-41-4	<0.015	-	0.015	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Toluene	108-88-3	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, m+p-	179601-23-1	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylene, o-	95-47-6	<0.050	-	0.050	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Xylenes, total	1330-20-7	<0.075	-	0.075	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
BTEX, total	----	<0.10	-	0.1	mg/kg	E611A/EO	04-May-2024	04-May-2024	1428782
Hydrocarbons									
F1 (C6-C10)	----	<5.0	-	5.0	mg/kg	E581.F1/EO	04-May-2024	04-May-2024	1428783
F1-BTEX	----	<5.0	-	5	mg/kg	EC580/EO	-	05-May-2024	-
F2 (C10-C16)	----	<25	-	25	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F3 (C16-C34)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
F4 (C34-C50)	----	<50	-	50	mg/kg	E601.SG/EO	04-May-2024	04-May-2024	1428812
Chromatogram to baseline at nC50	n/a	Yes	-	-	-	E601.SG/EO	04-May-2024	04-May-2024	1428812
Hydrocarbons, total (C6-C50)	n/a	<80	-	80	mg/kg	EC581/EO	-	05-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	86.6	-	1.0	%	E601.SG/EO	04-May-2024	04-May-2024	1428812
Dichlorotoluene, 3,4-	95-75-0	85.0	-	1.0	%	E581.F1/EO	04-May-2024	04-May-2024	1428783
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	93.1	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782
Difluorobenzene, 1,4-	540-36-3	87.4	-	0.10	%	E611A/EO	04-May-2024	04-May-2024	1428782

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.

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: EO2403252	Page	: 1 of 22
Client	: Omni-McCann Inc.	Laboratory	: ALS Environment
Contact	: Grant Barker	Account Manager	: Kieran Tordoff
Address	: 2404 96 Street Edmonton AB Canada T6N 1J8	Address	: 9450 - 17 Avenue Edmonton, Alberta
Telephone	: 306 343 5500	Telephone	: +1 780 413 5227
Project	: 0199-01-01	Date Samples Received	: 03-May-2024 14:30
PO	: 0199-01-01	Issue Date	: 10-May-2024 12:30
C-O-C number	: ----		
Sampler	: ST/JRB		
Site	: ----		
Quote number	: Edmonton General - Soil - 2024 Rates		
No. of samples received	: 36		
No. of samples analysed	: 36		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report, which includes holding times and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies 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 Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- 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.
-

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or 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, a 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: * = Hold

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation			Eval	A
			Preparation Date	Holding Times Rec Actual			
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID							
Glass soil methanol vial MW 24-01	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID							
Glass soil methanol vial MW 24-02	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID							
Glass soil methanol vial PH 24-03	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID							
Glass soil methanol vial PH 24-04	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID							
Glass soil methanol vial PH 24-05	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID							
Glass soil methanol vial PH 24-06	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID							
Glass soil methanol vial PH 24-07	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: Soil/Solid

Evaluation: * = Hold

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-08	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-09	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-10	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-11	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-12	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-13	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-14	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-15	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-16	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓		

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: Soil/Solid

Evaluation: * = Hold

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Container / Client Sample ID(s)								
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-17	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-18	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-19	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-20	E581.F1	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial DUPE 01	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓	0	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial DUPE 02	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓	0	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial DUPE 03	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓	0	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-21	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓	0	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-22	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓	0	

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: Soil/Solid

Evaluation: * = Hold

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-23	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-24	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-25	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-26	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-27	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-28	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-29	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-30	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-31	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓		

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: Soil/Solid

Evaluation: * = Hold

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-32	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓	0	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID								
Glass soil methanol vial PH 24-33	E581.F1	02-May-2024	04-May-2024	40 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap DUPE 01	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap DUPE 02	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap DUPE 03	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap MW 24-01	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap MW 24-02	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-03	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-04	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: Soil/Solid

Evaluation: * = Hold

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Eval
			Preparation Date	Holding Times			
				Rec	Actual		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID							
Glass soil jar/Teflon lined cap PH 24-05	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID							
Glass soil jar/Teflon lined cap PH 24-06	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID							
Glass soil jar/Teflon lined cap PH 24-07	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID							
Glass soil jar/Teflon lined cap PH 24-08	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID							
Glass soil jar/Teflon lined cap PH 24-09	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID							
Glass soil jar/Teflon lined cap PH 24-10	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID							
Glass soil jar/Teflon lined cap PH 24-11	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID							
Glass soil jar/Teflon lined cap PH 24-12	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID							
Glass soil jar/Teflon lined cap PH 24-13	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: Soil/Solid

Evaluation: * = Hold

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-14	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-15	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-16	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-17	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-18	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-19	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-20	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-21	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-22	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: Soil/Solid

Evaluation: * = Hold

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-23	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-24	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-25	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-26	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-27	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-28	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-29	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-30	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-31	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓	0	

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: Soil/Solid

Evaluation: * = Hold

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Container / Client Sample ID(s)								
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-32	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID								
Glass soil jar/Teflon lined cap PH 24-33	E601.SG	02-May-2024	04-May-2024	14 days	3 days	✓		
Particle Size : CCME fine/coarse Particle Size Analysis by wet sieve								
Glass soil jar/Teflon lined cap PH 24-06	E178	02-May-2024	---	---	---			
Particle Size : CCME fine/coarse Particle Size Analysis by wet sieve								
Glass soil jar/Teflon lined cap PH 24-15	E178	02-May-2024	---	---	---			
Particle Size : CCME fine/coarse Particle Size Analysis by wet sieve								
Glass soil jar/Teflon lined cap PH 24-26	E178	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap DUPE 01	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap DUPE 02	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap DUPE 03	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap MW 24-01	E144	02-May-2024	---	---	---			

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: **Soil/Solid**

Evaluation: * = Hold

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap MW 24-02	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-03	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-04	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-05	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-06	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-07	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-08	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-09	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-10	E144	02-May-2024	---	---	---			

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 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: **Soil/Solid**

Evaluation: * = Hold

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-11	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-12	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-13	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-14	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-15	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-16	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-17	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-18	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-19	E144	02-May-2024	---	---	---			

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 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: **Soil/Solid**

Evaluation: * = Hold

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-20	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-21	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-22	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-23	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-24	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-25	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-26	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-27	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-28	E144	02-May-2024	---	---	---			

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 Client : Omni-McCann Inc.
 Project : 0199-01-01

Matrix: **Soil/Solid**

Evaluation: * = Hold

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Container / Client Sample ID(s)								
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-29	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-30	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-31	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-32	E144	02-May-2024	---	---	---			
Physical Tests : Moisture Content by Gravimetry								
Glass soil jar/Teflon lined cap PH 24-33	E144	02-May-2024	---	---	---			
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial MW 24-01	E611A	02-May-2024	04-May-2024	40 days	2 days	✓		
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial MW 24-02	E611A	02-May-2024	04-May-2024	40 days	2 days	✓		
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-03	E611A	02-May-2024	04-May-2024	40 days	2 days	✓		
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-04	E611A	02-May-2024	04-May-2024	40 days	2 days	✓		

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Matrix: **Soil/Solid**

Evaluation: * = Hold

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-05	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-06	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-07	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-08	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-09	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-10	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-11	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-12	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-13	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	

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Matrix: Soil/Solid

Evaluation: * = Hold

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Eval	A
			Preparation Date	Holding Times				
				Rec	Actual			
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-14	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-15	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-16	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-17	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-18	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-19	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial PH 24-20	E611A	02-May-2024	04-May-2024	40 days	2 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial DUPE 01	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	0	
Volatile Organic Compounds : BTEX by Headspace GC-MS								
Glass soil methanol vial DUPE 02	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	0	

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Matrix: Soil/Solid

Evaluation: * = Hold

Analyte Group : Analytical Method	Method	Sampling Date	Extraction / Preparation				Eval
			Preparation Date	Holding Times			
				Rec	Actual		
Container / Client Sample ID(s)							
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial DUPE 03	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-21	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-22	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-23	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-24	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-25	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-26	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-27	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-28	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	

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Matrix: **Soil/Solid**

Evaluation: * = Hold

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Eval
			Preparation Date	Holding Times			
				Rec	Actual		
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-29	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-30	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-31	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-32	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	
Volatile Organic Compounds : BTEX by Headspace GC-MS							
Glass soil methanol vial PH 24-33	E611A	02-May-2024	04-May-2024	40 days	3 days	✓	

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).

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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 should be greater than or equal to the expected frequency.

Matrix: **Soil/Solid**

Evaluation: * = QC frequency outside specification

Quality Control Sample Type	Method	QC Lot #	Count	
			QC	Regular
Analytical Methods				
Laboratory Duplicates (DUP)				
BTEX by Headspace GC-MS	E611A	1428780	2	36
CCME fine/coarse Particle Size Analysis by wet sieve	E178	1436759	1	9
CCME PHC - F1 by Headspace GC-FID	E581.F1	1428783	2	36
CCME PHCs - F2-F4 by GC-FID	E601.SG	1428812	2	36
Moisture Content by Gravimetry	E144	1428827	2	36
Laboratory Control Samples (LCS)				
BTEX by Headspace GC-MS	E611A	1428780	2	36
CCME fine/coarse Particle Size Analysis by wet sieve	E178	1436759	1	9
CCME PHC - F1 by Headspace GC-FID	E581.F1	1428783	2	36
CCME PHCs - F2-F4 by GC-FID	E601.SG	1428812	2	36
Moisture Content by Gravimetry	E144	1428827	2	36
Method Blanks (MB)				
BTEX by Headspace GC-MS	E611A	1428780	2	36
CCME PHC - F1 by Headspace GC-FID	E581.F1	1428783	2	36
CCME PHCs - F2-F4 by GC-FID	E601.SG	1428812	2	36
Moisture Content by Gravimetry	E144	1428827	2	36
Matrix Spikes (MS)				
BTEX by Headspace GC-MS	E611A	1428780	2	36
CCME PHCs - F2-F4 by GC-FID	E601.SG	1428812	2	36

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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 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 - Edmonton	Soil/Solid	CCME PHC in Soil - Tier 1	Moisture is measured gravimetrically by drying and the weight loss is calculated as the weight loss (due to water) expressed as a percentage.
CCME fine/coarse Particle Size Analysis by wet sieve	E178 ALS Environmental - Calgary	Soil/Solid	CCME Vol 4 Analytical Methods	An air-dried sample is reduced to < 2 mm (sodium hexametaphosphate). The sample is passed through a sieve. The retained mass of sample is used to determine the percentage of sand is >50%, the soil is considered coarse sand. If the percentage of sand is <50%, the soil is considered fine sand.
CCME PHC - F1 by Headspace GC-FID	E581.F1 ALS Environmental - Edmonton	Soil/Solid	CCME PHC in Soil - Tier 1	CCME Fraction 1 (F1) is analyzed by static headspace vials and are heated and agitated to partition VOCs to partition between the aqueous phase and the headspace according to Henry's law. Analytical methods for CCME Petroleum Hydrocarbons (PHC) are fully with the Reference Method for the Canadian Council of Ministers of the Environment (CCME) criteria of the CCME PHC method have been modified to meet the requirements.
CCME PHCs - F2-F4 by GC-FID	E601.SG ALS Environmental - Edmonton	Soil/Solid	CCME PHC in Soil - Tier 1	Sample extracts are subjected to in-situ silica gel extraction for CCME hydrocarbon fractions (F2-F4). Analytical methods for CCME Petroleum Hydrocarbons (PHC) are fully with the Reference Method for the Canadian Council of Ministers of the Environment (CCME) criteria of the CCME PHC method have been modified to meet the requirements.
BTEX by Headspace GC-MS	E611A ALS Environmental - Edmonton	Soil/Solid	EPA 8260D (mod)	Volatile Organic Compounds (VOCs) are analyzed by headspace GC-MS. Samples are prepared in headspace vials and analyzed by headspace autosampler, causing VOCs to partition into the headspace in accordance with Henry's law.
F1-BTEX	EC580 ALS Environmental - Edmonton	Soil/Solid	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 - (toluene + ethylbenzene and xylenes (BTEX)).
Sum F1 to F4 (C6-C50)	EC581 ALS Environmental - Edmonton	Soil/Solid	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of F1, F2, F3(C16-C34), and F4(C34-C50). F4G-sg is calculated as the sum of F4G-sg and F4G-sg overlap with other fractions.

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<i>Preparation Methods</i>	<i>Method / Lab</i>	<i>Matrix</i>	<i>Method Reference</i>	<i>Method Descriptions</i>
VOCs Methanol Extraction for Headspace Analysis	EP581 ALS Environmental - Edmonton	Soil/Solid	EPA 5035A (mod)	VOCs in samples are extracted with methanol in vials and are heated and agitated on the shaker to partition between the aqueous phase and the solid phase.
PHCs and PAHs Hexane-Acetone Tumbler Extraction	EP601 ALS Environmental - Edmonton	Soil/Solid	CCME PHC in Soil - Tier 1 (mod)	Samples are subsampled and Petroleum Hydrocarbons extracted with 1:1 hexane:acetone using a rotary extractor.
Dry and Grind in Soil/Solid <60°C	EPP442 ALS Environmental - Calgary	Soil/Solid	Soil Sampling and Methods of Analysis, Carter 2008	After removal of any coarse fragments and debris, the homogenized sample is set in a tray and dried at 60°C. Then particle size reduced with an automated grinder to <2 mm. Further size reduction may be needed for p

QUALITY CONTROL REPORT

Work Order	: EO2403252	Page	: 1 of 7
Client	: Omni-McCann Inc.	Laboratory	: ALS Environmental - Edm
Contact	: Grant Barker	Account Manager	: Kieran Tordoff
Address	: 2404 96 Street Edmonton AB Canada T6N 1J8	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Cana
Telephone	: 306 343 5500	Telephone	: +1 780 413 5227
Project	: 0199-01-01	Date Samples Received	: 03-May-2024 14:53
PO	: 0199-01-01	Date Analysis Commenced	: 04-May-2024
C-O-C number	: ----	Issue Date	: 10-May-2024 12:20
Sampler	: ST/JRB		
Site	: ----		
Quote number	: Edmonton General - Soil - 2024 Rates		
No. of samples received	: 36		
No. of samples analysed	: 36		

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

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Geoff Berg	Lab Analyst	Edmonton Organics, Edmonton, Alberta
Kari Mulroy	Lab Supervisor - Environmental	Edmonton Organics, Edmonton, Alberta
Kuljeet Chawla		Calgary Inorganics, Calgary, Alberta
Roseanne Drake	Lab Assistant	Edmonton Organics, Edmonton, Alberta

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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. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the 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 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.

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Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and 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 10 times the LOR (cut-off is test-specific).

Sub-Matrix: Soil/Solid

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Laboratory Duplicate			
					LOR	Unit	Original Result	Duplicate Result
Physical Tests (QC Lot: 1428825)								
EO2403252-001	MW 24-01	Moisture	----	E144	0.25	%	25.2	25.5
Physical Tests (QC Lot: 1428827)								
EO2403252-021	PH 24-21	Moisture	----	E144	0.25	%	21.2	21.1
Particle Size (QC Lot: 1436759)								
CG2405650-008	Anonymous	Sand (>0.075mm)	----	E178	1.0	%	40.7	40.4
Volatile Organic Compounds (QC Lot: 1428780)								
EO2403252-001	MW 24-01	Benzene	71-43-2	E611A	0.0050	mg/kg	<0.0050	<0.0050
		Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	<0.015
		Toluene	108-88-3	E611A	0.050	mg/kg	<0.050	<0.050
		Xylene, m+p-	179601-23-1	E611A	0.050	mg/kg	<0.050	<0.050
		Xylene, o-	95-47-6	E611A	0.050	mg/kg	<0.050	<0.050
Volatile Organic Compounds (QC Lot: 1428782)								
EO2403252-021	PH 24-21	Benzene	71-43-2	E611A	0.0050	mg/kg	<0.0050	<0.0050
		Ethylbenzene	100-41-4	E611A	0.015	mg/kg	<0.015	<0.015
		Toluene	108-88-3	E611A	0.050	mg/kg	<0.050	<0.050
		Xylene, m+p-	179601-23-1	E611A	0.050	mg/kg	<0.050	<0.050
		Xylene, o-	95-47-6	E611A	0.050	mg/kg	<0.050	<0.050
Hydrocarbons (QC Lot: 1428781)								
EO2403252-001	MW 24-01	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0
Hydrocarbons (QC Lot: 1428783)								
EO2403252-021	PH 24-21	F1 (C6-C10)	----	E581.F1	5.0	mg/kg	<5.0	<5.0
Hydrocarbons (QC Lot: 1428811)								
EO2403252-002	MW 24-02	F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	<25
		F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	<50
		F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	<50
Hydrocarbons (QC Lot: 1428812)								
EO2403252-022	PH 24-22	F2 (C10-C16)	----	E601.SG	25	mg/kg	<25	<25
		F3 (C16-C34)	----	E601.SG	50	mg/kg	<50	<50
		F4 (C34-C50)	----	E601.SG	50	mg/kg	<50	<50

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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 identify 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
Physical Tests (QCLot: 1428825)					
Moisture	----	E144	0.25	%	<0.25
Physical Tests (QCLot: 1428827)					
Moisture	----	E144	0.25	%	<0.25
Volatile Organic Compounds (QCLot: 1428780)					
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: 1428782)					
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: 1428781)					
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0
Hydrocarbons (QCLot: 1428783)					
F1 (C6-C10)	----	E581.F1	5	mg/kg	<5.0
Hydrocarbons (QCLot: 1428811)					
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: 1428812)					
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

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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 as the test sample. The 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

Analyte	CAS Number	Method	LOR	Unit	Laboratory Control Sample	
					Spike	Recovery (%)
					Target Concentration	LCS
Physical Tests (QCLot: 1428825)						
Moisture	----	E144	0.25	%	50 %	95.4
Physical Tests (QCLot: 1428827)						
Moisture	----	E144	0.25	%	50 %	93.4
Volatile Organic Compounds (QCLot: 1428780)						
Benzene	71-43-2	E611A	0.005	mg/kg	2.5 mg/kg	96.8
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	2.5 mg/kg	101
Toluene	108-88-3	E611A	0.05	mg/kg	2.5 mg/kg	99.1
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	5 mg/kg	98.8
Xylene, o-	95-47-6	E611A	0.03	mg/kg	2.5 mg/kg	102
Volatile Organic Compounds (QCLot: 1428782)						
Benzene	71-43-2	E611A	0.005	mg/kg	2.5 mg/kg	97.8
Ethylbenzene	100-41-4	E611A	0.015	mg/kg	2.5 mg/kg	99.3
Toluene	108-88-3	E611A	0.05	mg/kg	2.5 mg/kg	95.2
Xylene, m+p-	179601-23-1	E611A	0.03	mg/kg	5 mg/kg	92.2
Xylene, o-	95-47-6	E611A	0.03	mg/kg	2.5 mg/kg	94.9
Hydrocarbons (QCLot: 1428781)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	86 mg/kg	88.7
Hydrocarbons (QCLot: 1428783)						
F1 (C6-C10)	----	E581.F1	5	mg/kg	86 mg/kg	91.6
Hydrocarbons (QCLot: 1428811)						
F2 (C10-C16)	----	E601.SG	25	mg/kg	646 mg/kg	97.9
F3 (C16-C34)	----	E601.SG	50	mg/kg	1240 mg/kg	99.0
F4 (C34-C50)	----	E601.SG	50	mg/kg	915 mg/kg	106
Hydrocarbons (QCLot: 1428812)						
F2 (C10-C16)	----	E601.SG	25	mg/kg	646 mg/kg	94.8
F3 (C16-C34)	----	E601.SG	50	mg/kg	1240 mg/kg	105
F4 (C34-C50)	----	E601.SG	50	mg/kg	915 mg/kg	110

Page : 6 of 7
 Work Order : EO2403252
 Client : Omni-McCann Inc.
 Project : 0199-01-01

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 as a regular sample. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes occur. Results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level $\geq 1x$ spike level.

Sub-Matrix: Soil/Solid

Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Matrix Spike		
					Concentration	Target	Recovery (%)
Volatile Organic Compounds (QCLot: 1428780)							
EO2403252-002	MW 24-02	Benzene	71-43-2	E611A	2.02 mg/kg	1.84 mg/kg	110
		Ethylbenzene	100-41-4	E611A	2.07 mg/kg	1.84 mg/kg	113
		Toluene	108-88-3	E611A	1.77 mg/kg	1.84 mg/kg	96.4
		Xylene, m+p-	179601-23-1	E611A	4.18 mg/kg	3.68 mg/kg	114
		Xylene, o-	95-47-6	E611A	2.18 mg/kg	1.84 mg/kg	119
Volatile Organic Compounds (QCLot: 1428782)							
EO2403252-022	PH 24-22	Benzene	71-43-2	E611A	2.67 mg/kg	2.58 mg/kg	103
		Ethylbenzene	100-41-4	E611A	2.78 mg/kg	2.58 mg/kg	108
		Toluene	108-88-3	E611A	2.67 mg/kg	2.58 mg/kg	104
		Xylene, m+p-	179601-23-1	E611A	5.29 mg/kg	5.17 mg/kg	102
		Xylene, o-	95-47-6	E611A	2.92 mg/kg	2.58 mg/kg	113
Hydrocarbons (QCLot: 1428811)							
EO2403252-001	MW 24-01	F2 (C10-C16)	----	E601.SG	560 mg/kg	558 mg/kg	100
		F3 (C16-C34)	----	E601.SG	955 mg/kg	1070 mg/kg	89.4
		F4 (C34-C50)	----	E601.SG	714 mg/kg	791 mg/kg	90.3
Hydrocarbons (QCLot: 1428812)							
EO2403252-021	PH 24-21	F2 (C10-C16)	----	E601.SG	508 mg/kg	547 mg/kg	92.9
		F3 (C16-C34)	----	E601.SG	1050 mg/kg	1050 mg/kg	100
		F4 (C34-C50)	----	E601.SG	875 mg/kg	775 mg/kg	113

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 to 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 provided by the RM supplier, or may be ALS long-term mean values (for empirical test methods).

Sub-Matrix:

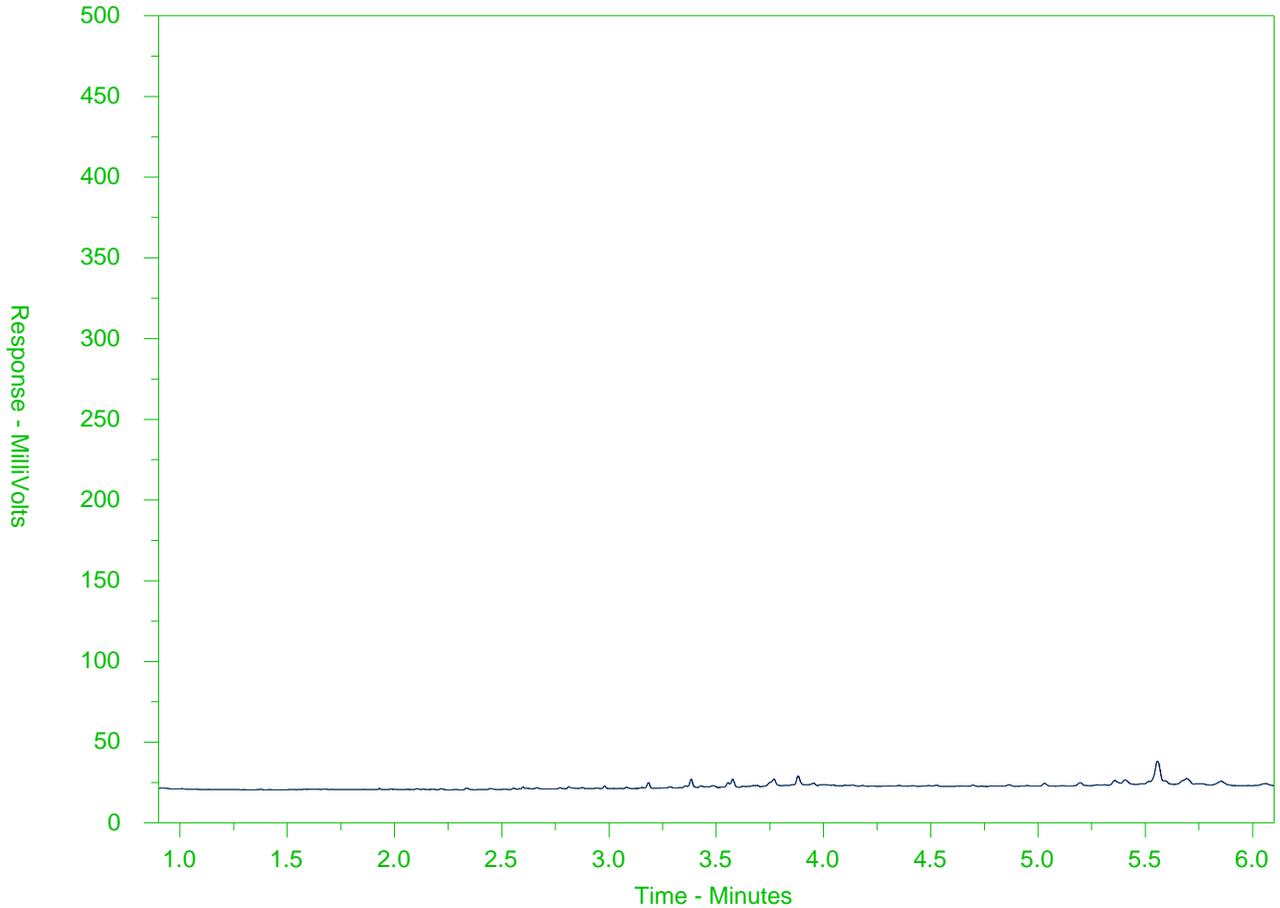
Laboratory sample ID	Reference Material ID	Analyte	CAS Number	Method	Reference Material	
					RM Target Concentration	Recovery (%)
Particle Size (QCLot: 1436759)						
QC-1436759-001	RM	Sand (>0.075mm)	----	E178	38.6 %	95.8

Page : 7 of 7
Work Order : EO2403252
Client : Omni-McCann Inc.
Project : 0199-01-01

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: EO2403252-001-E601.SG
 Client ID: MW 24-01



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

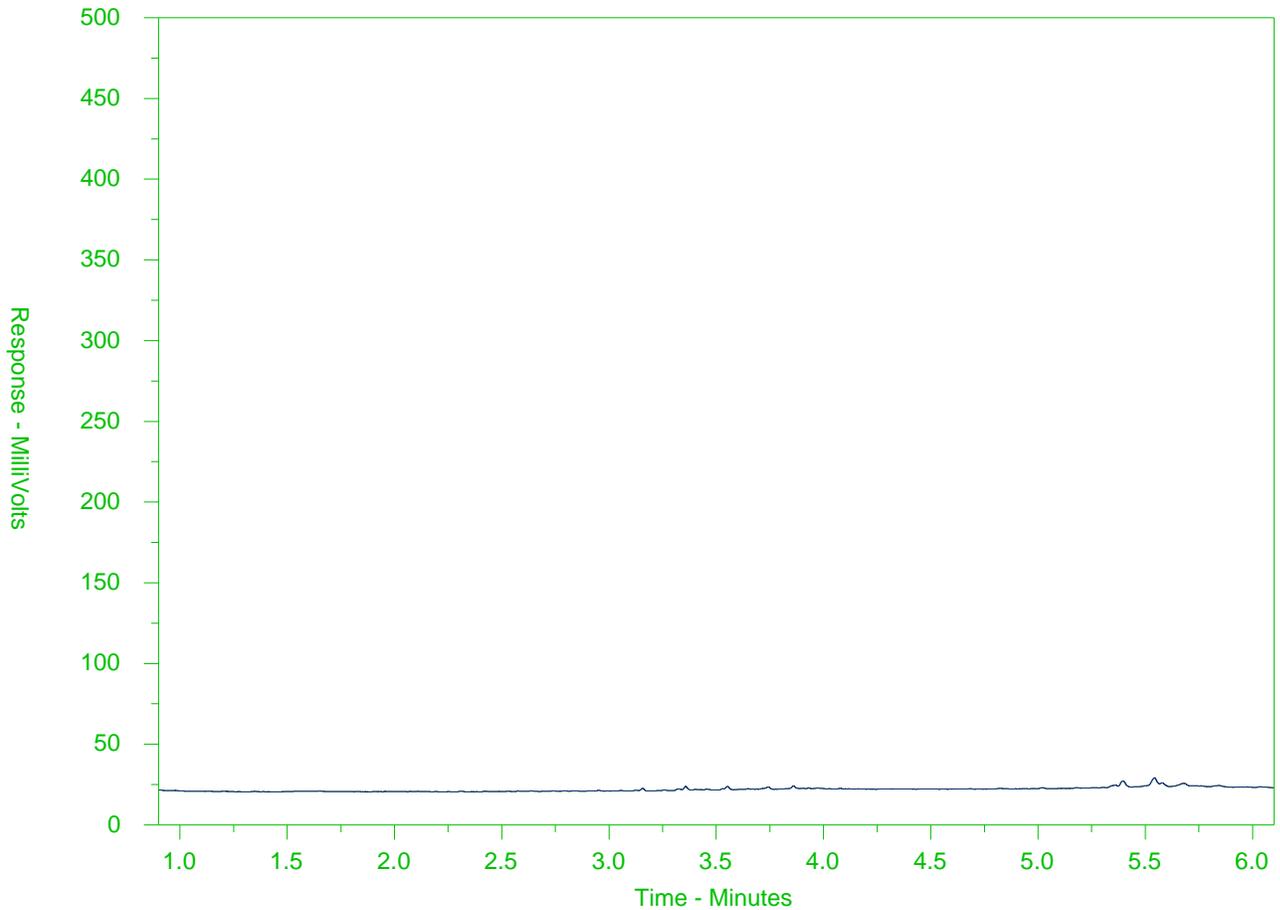
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-002-E601.SG
 Client ID: MW 24-02



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

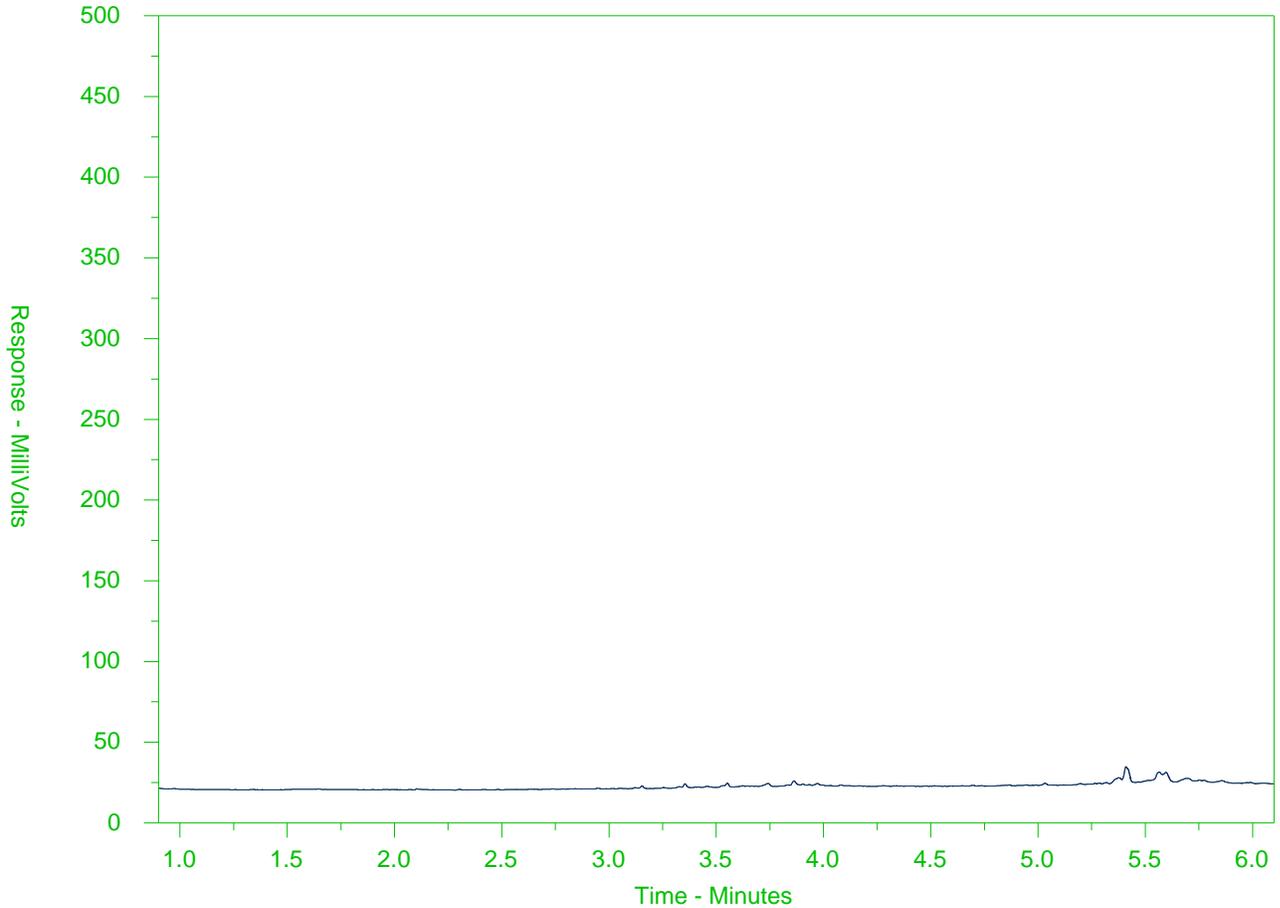
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-002-E601.SG
 Client ID: MW 24-02



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

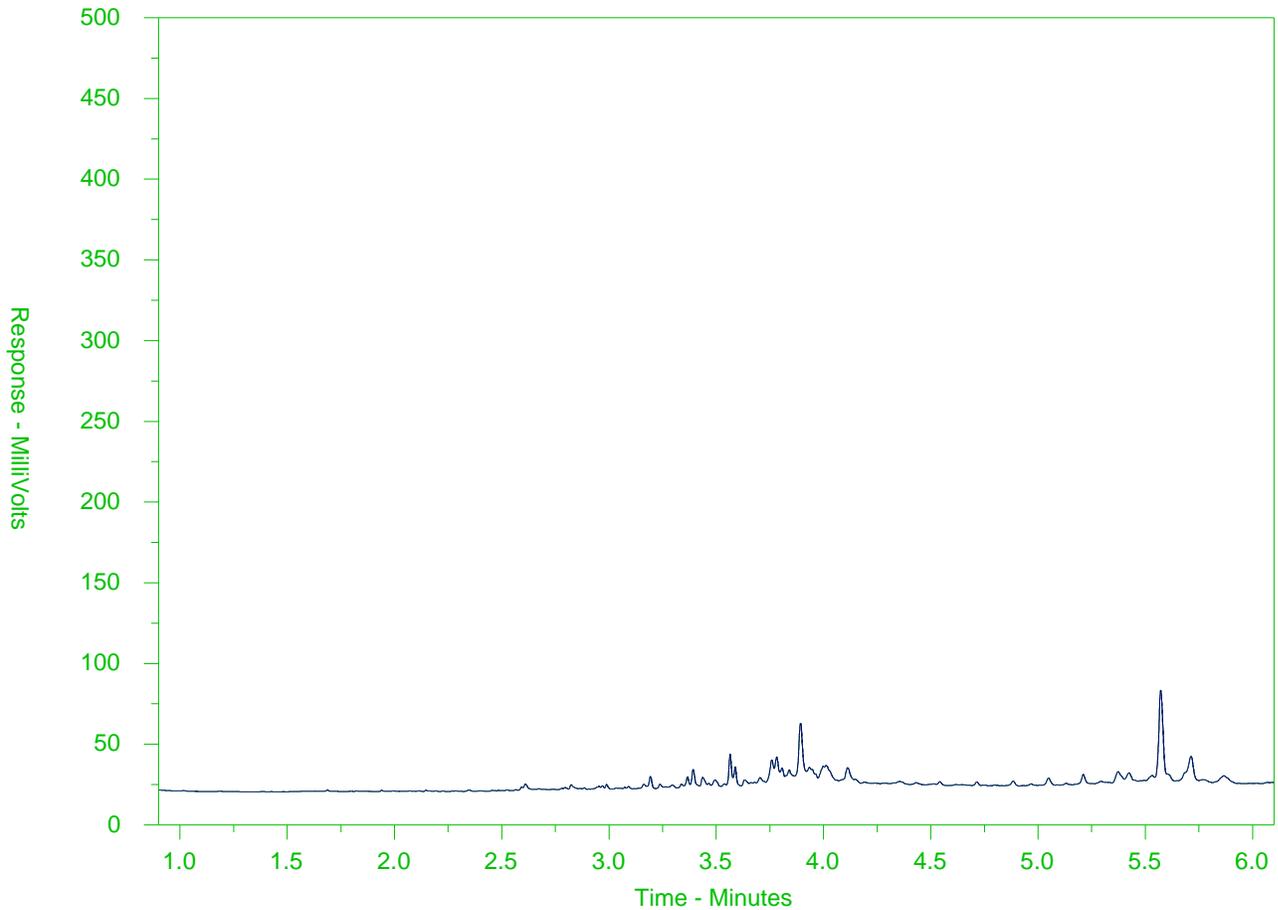
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-003-E601.SG
 Client ID: PH 24-03



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

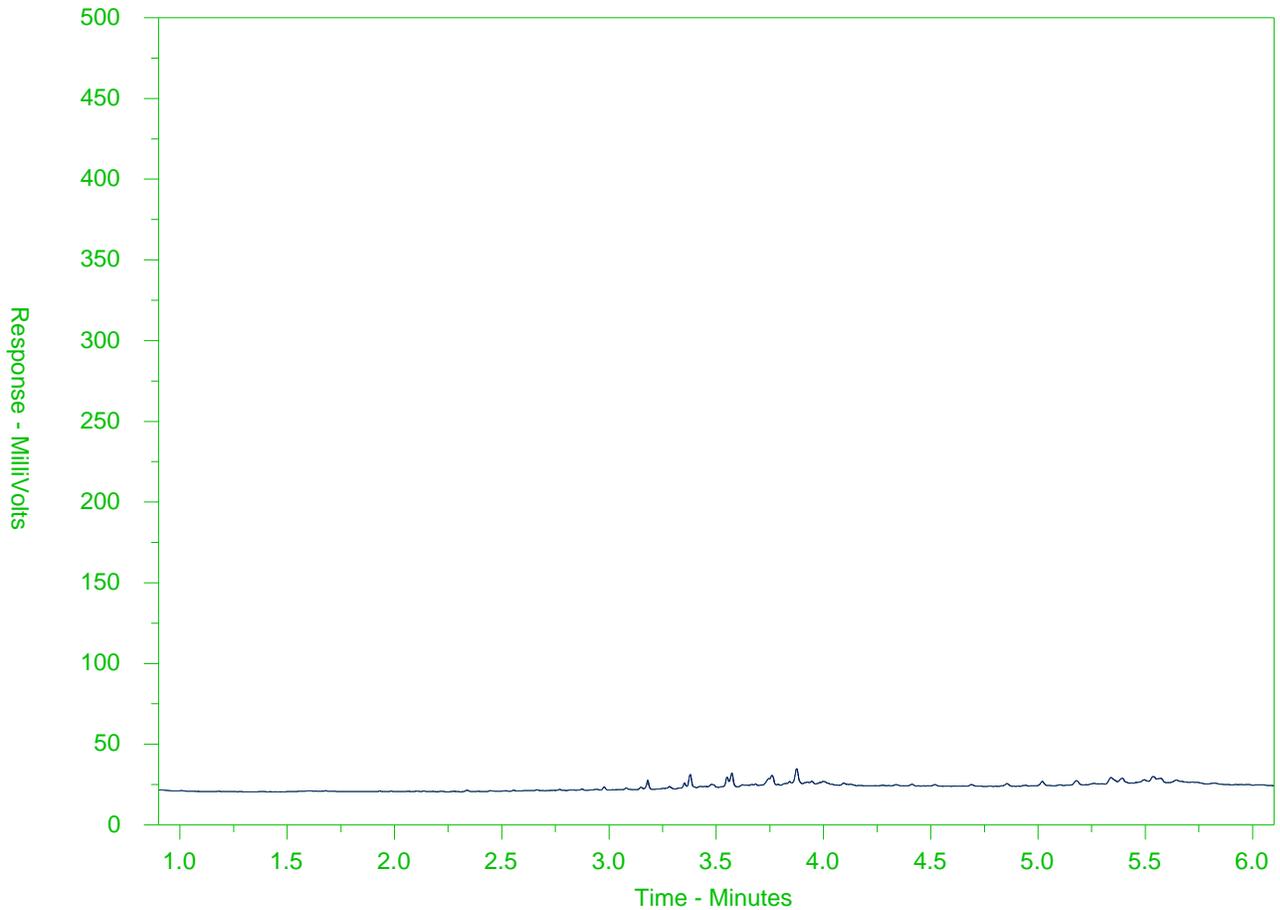
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-004-E601.SG
 Client ID: PH 24-04



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

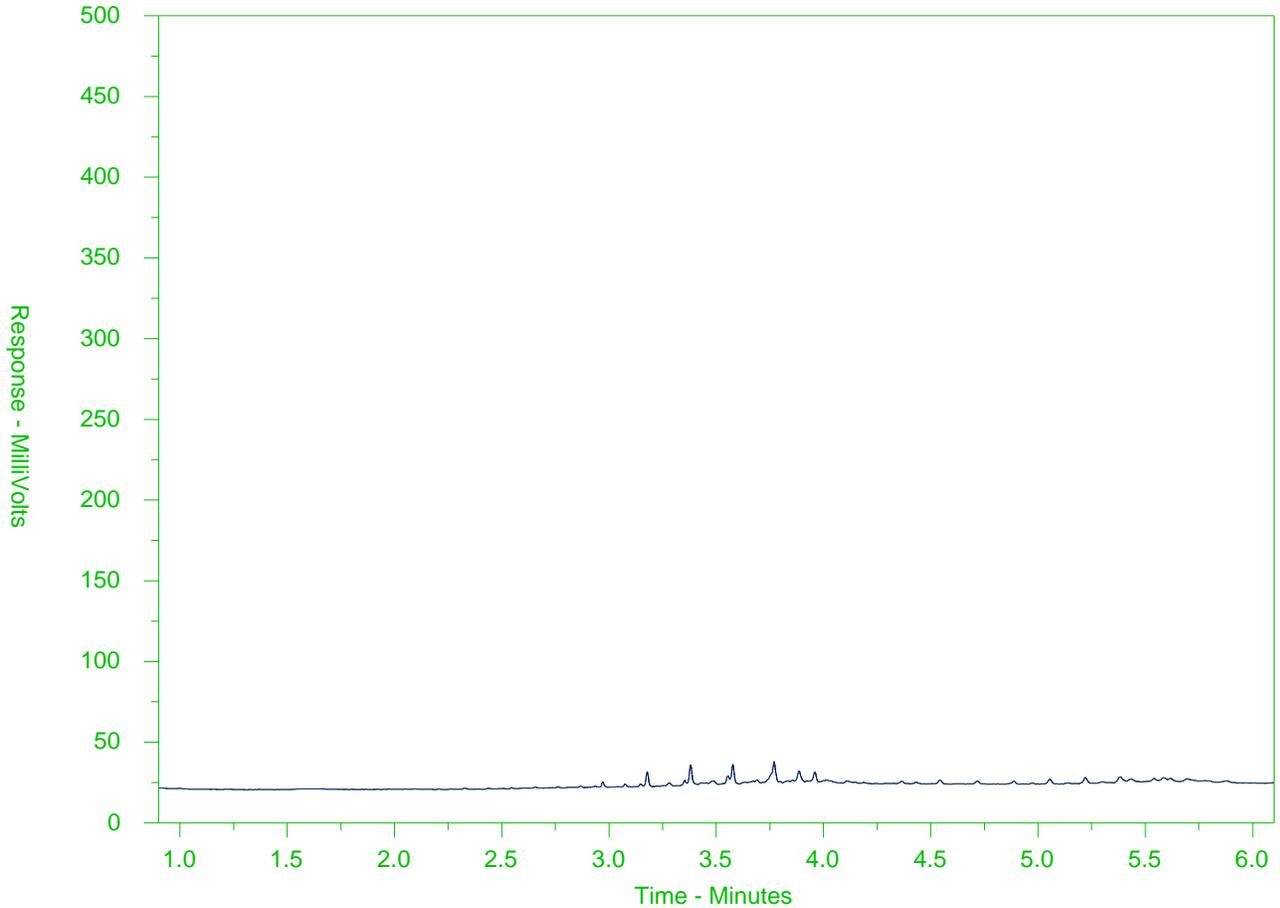
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-005-E601.SG
 Client ID: PH 24-05



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

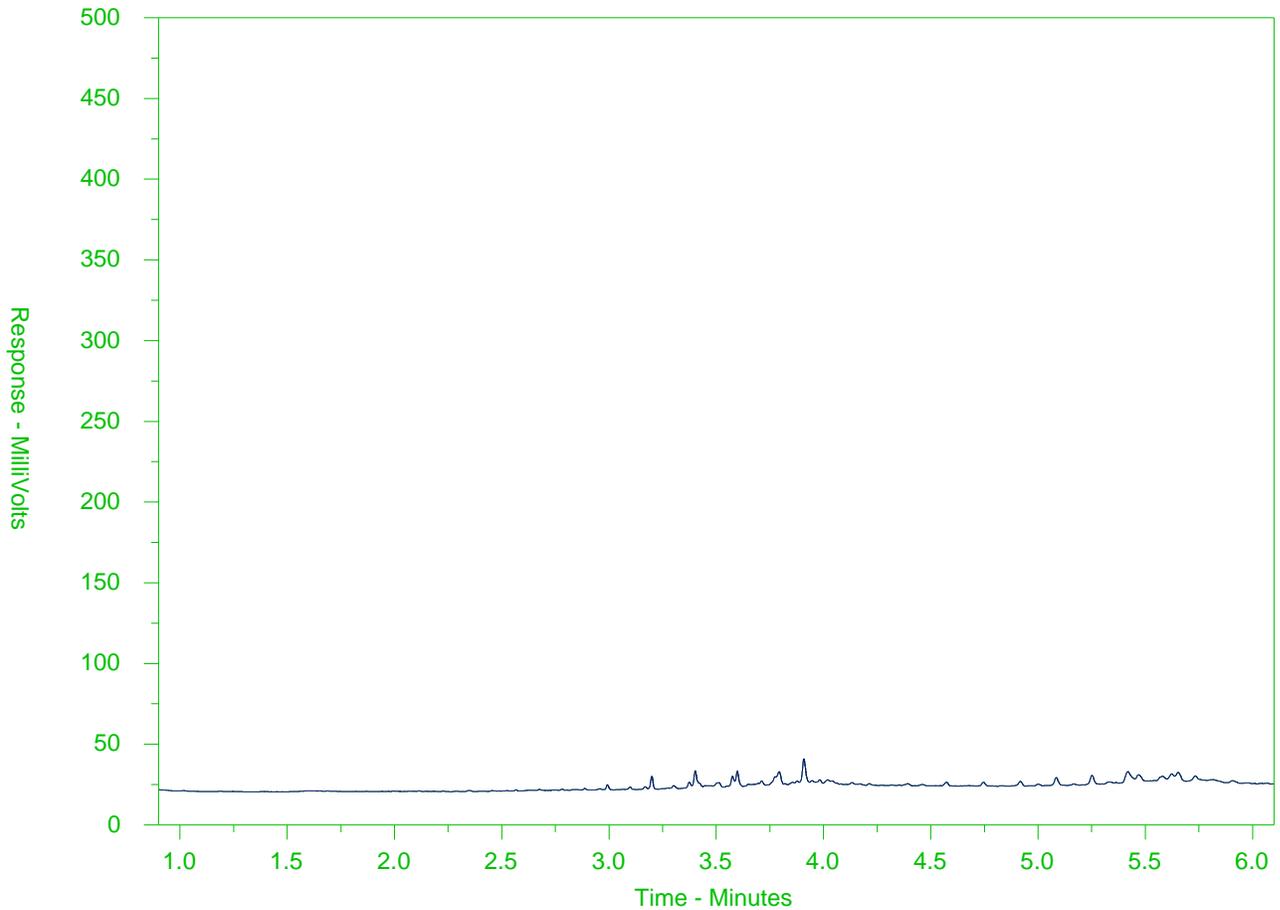
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-006-E601.SG
 Client ID: PH 24-06



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

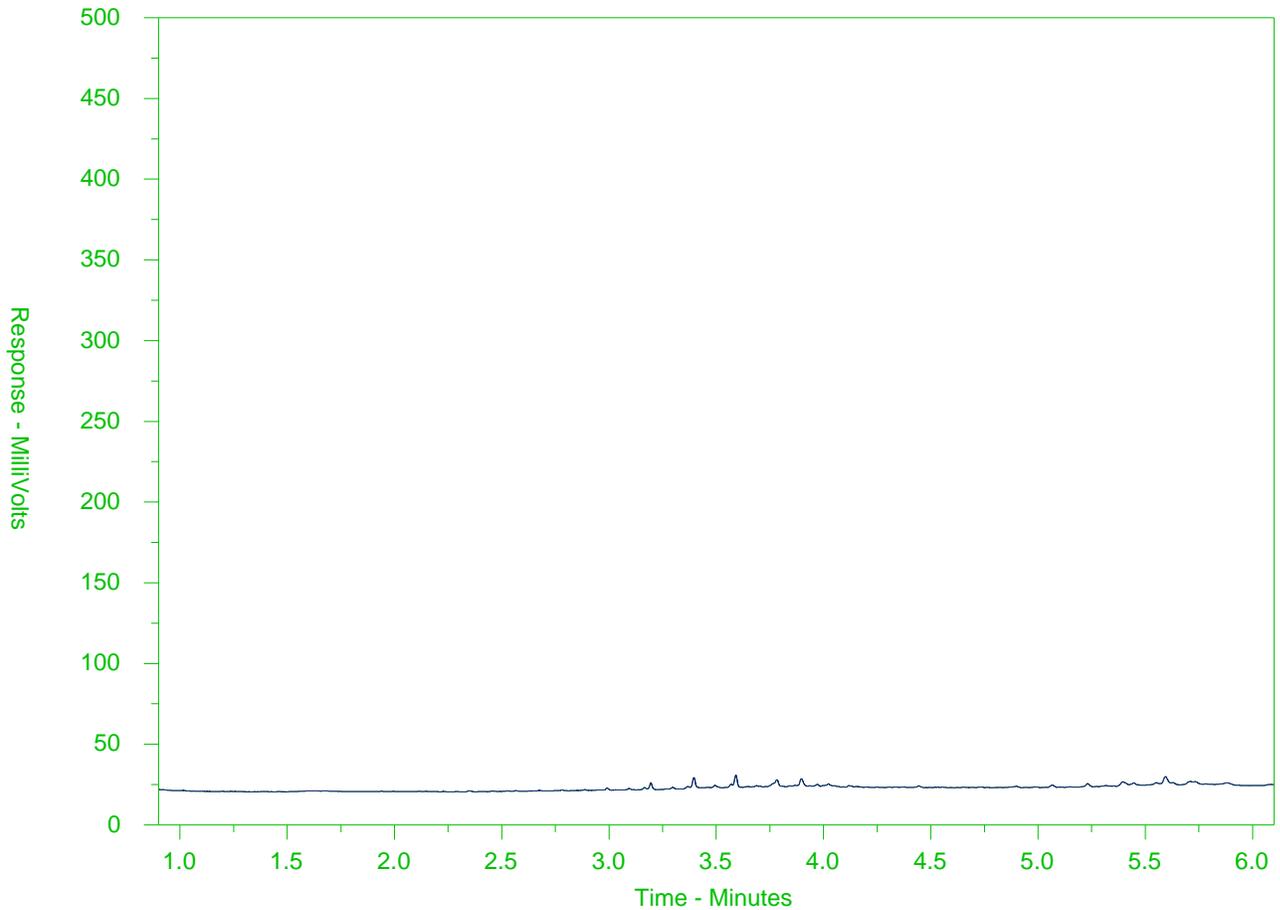
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-007-E601.SG
 Client ID: PH 24-07



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

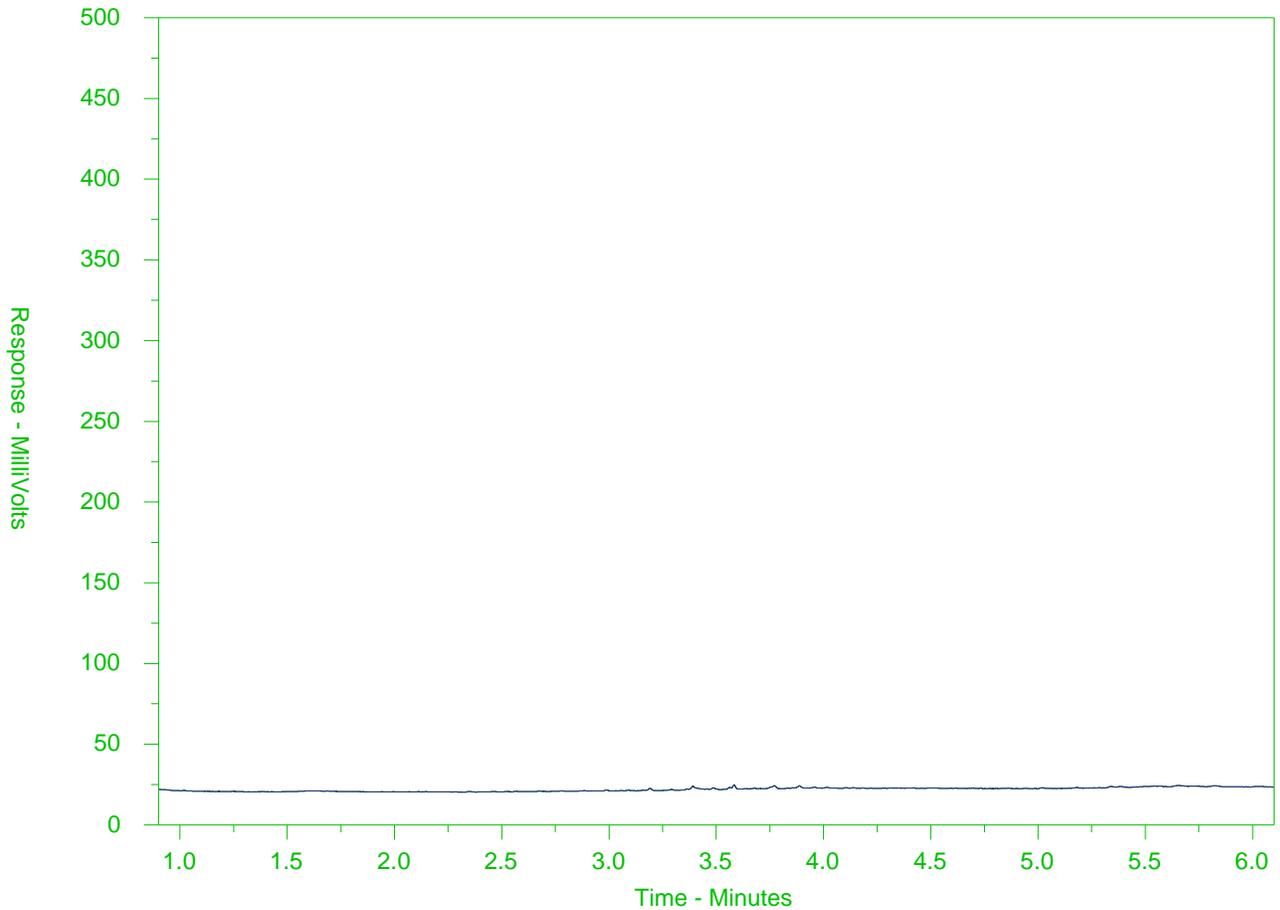
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-008-E601.SG
 Client ID: PH 24-08



← F2		← F3		← F4		→ F4 →
nC10	nC16			nC34	nC50	
174°C	287°C			481°C	575°C	
346°F	549°F			898°F	1067°F	
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

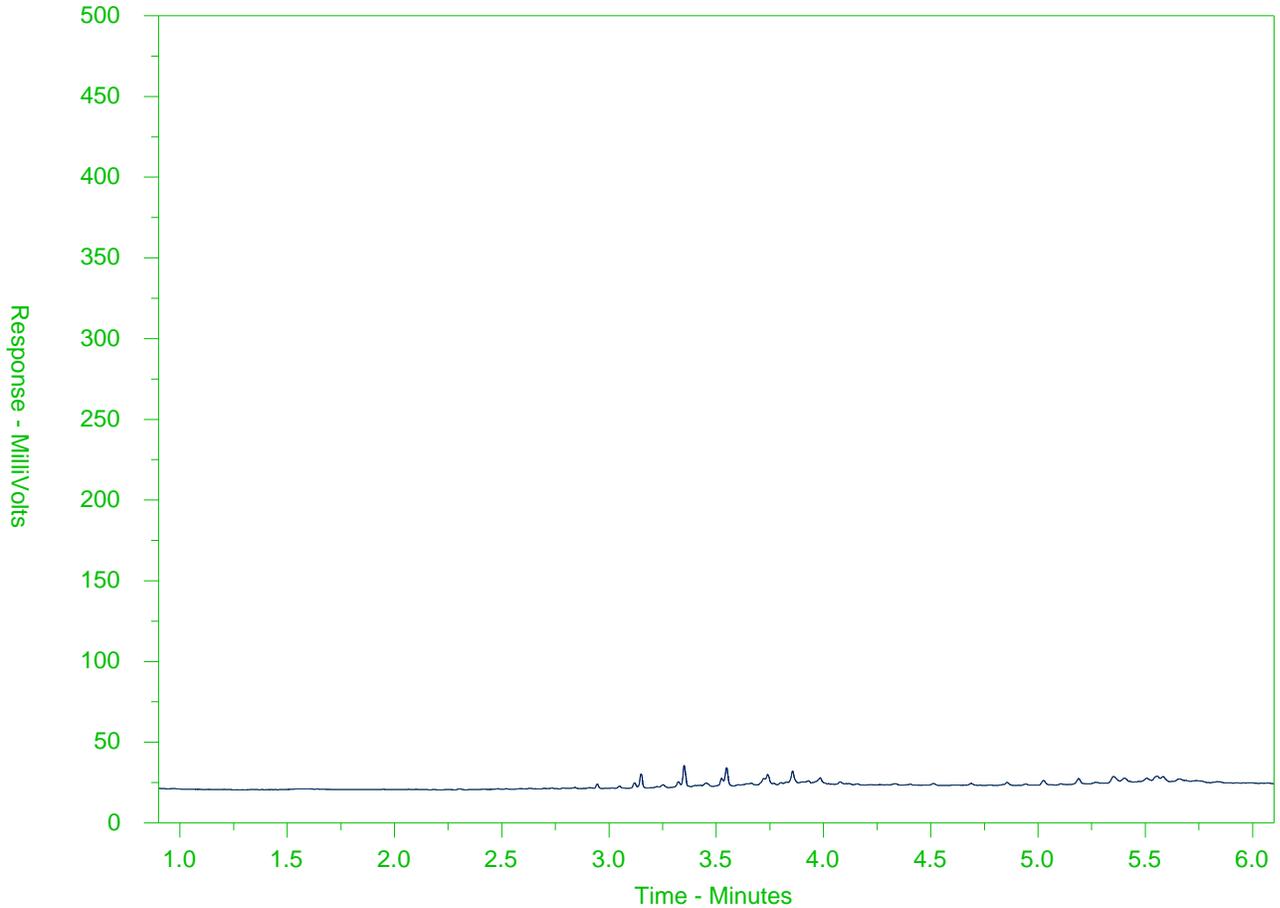
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-009-E601.SG
 Client ID: PH 24-09



← F2		← F3		← F4		→ F4 →
nC10	nC16			nC34	nC50	
174°C	287°C			481°C	575°C	
346°F	549°F			898°F	1067°F	
← Gasoline →				← Motor Oils/ Lube Oils/ Grease →		
← Diesel/ Jet Fuels →						

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.

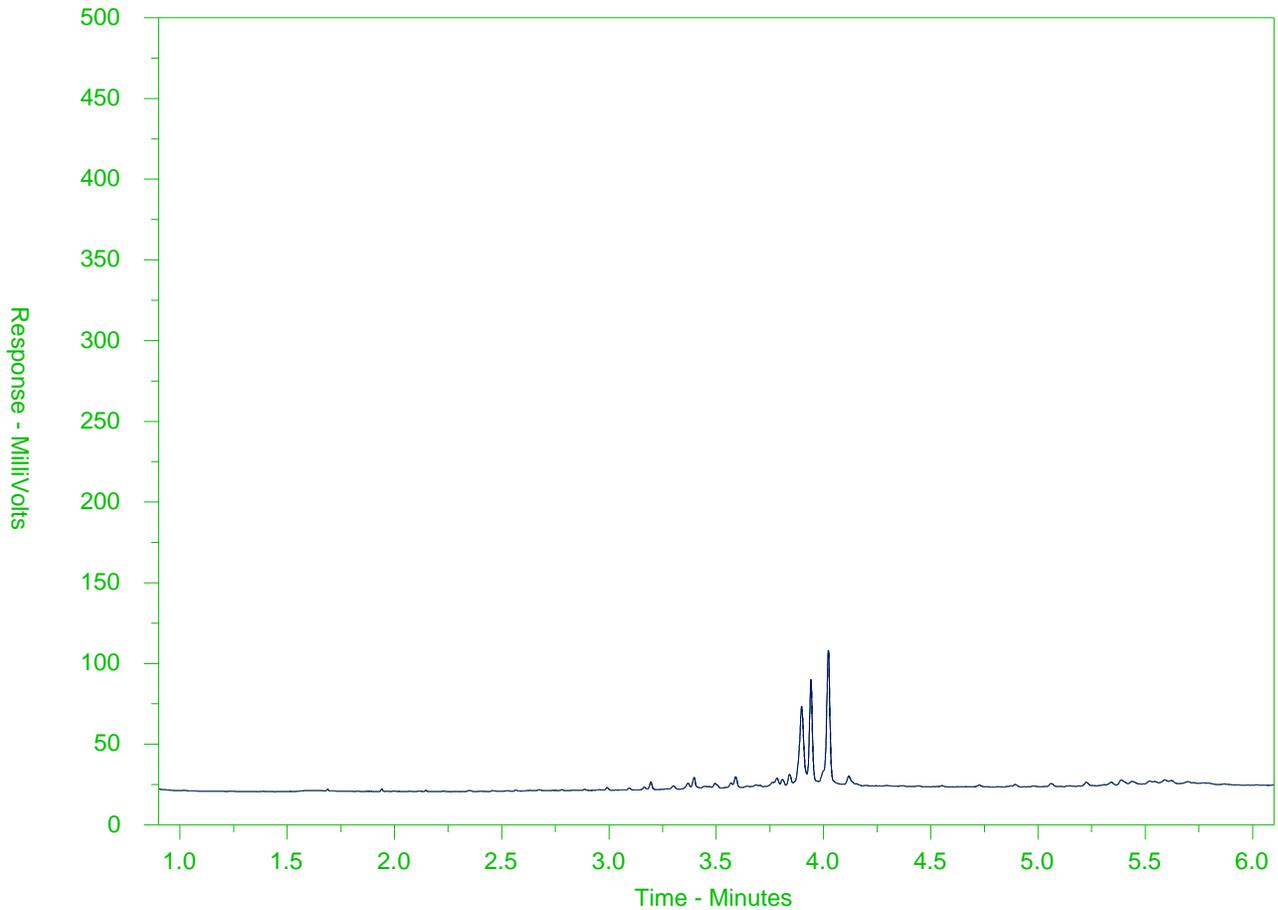
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-010-E601.SG
 Client ID: PH 24-10



← F2		← F3		← F4		→ F4 →
nC10	nC16			nC34	nC50	
174°C	287°C			481°C	575°C	
346°F	549°F			898°F	1067°F	
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

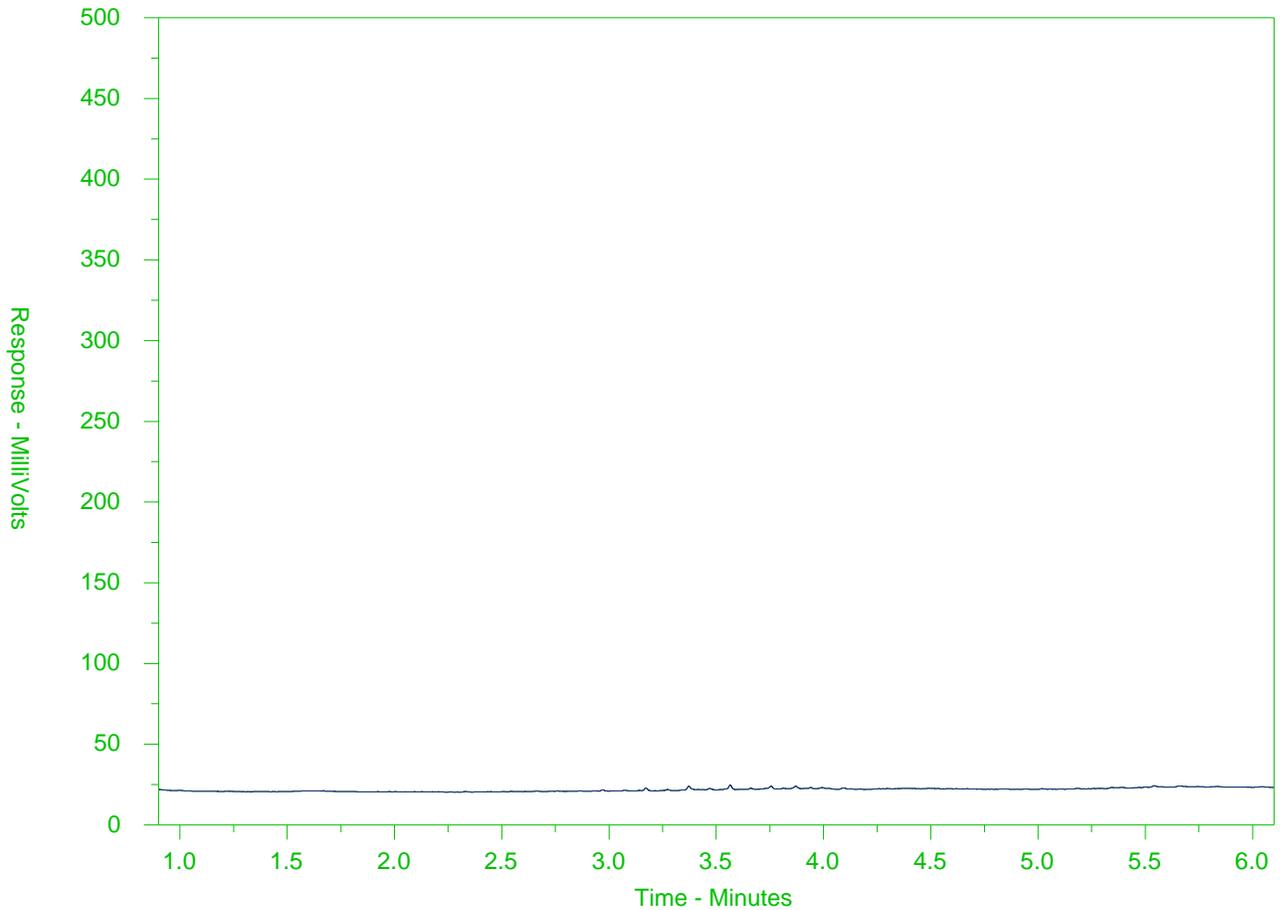
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-011-E601.SG
 Client ID: PH 24-11



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

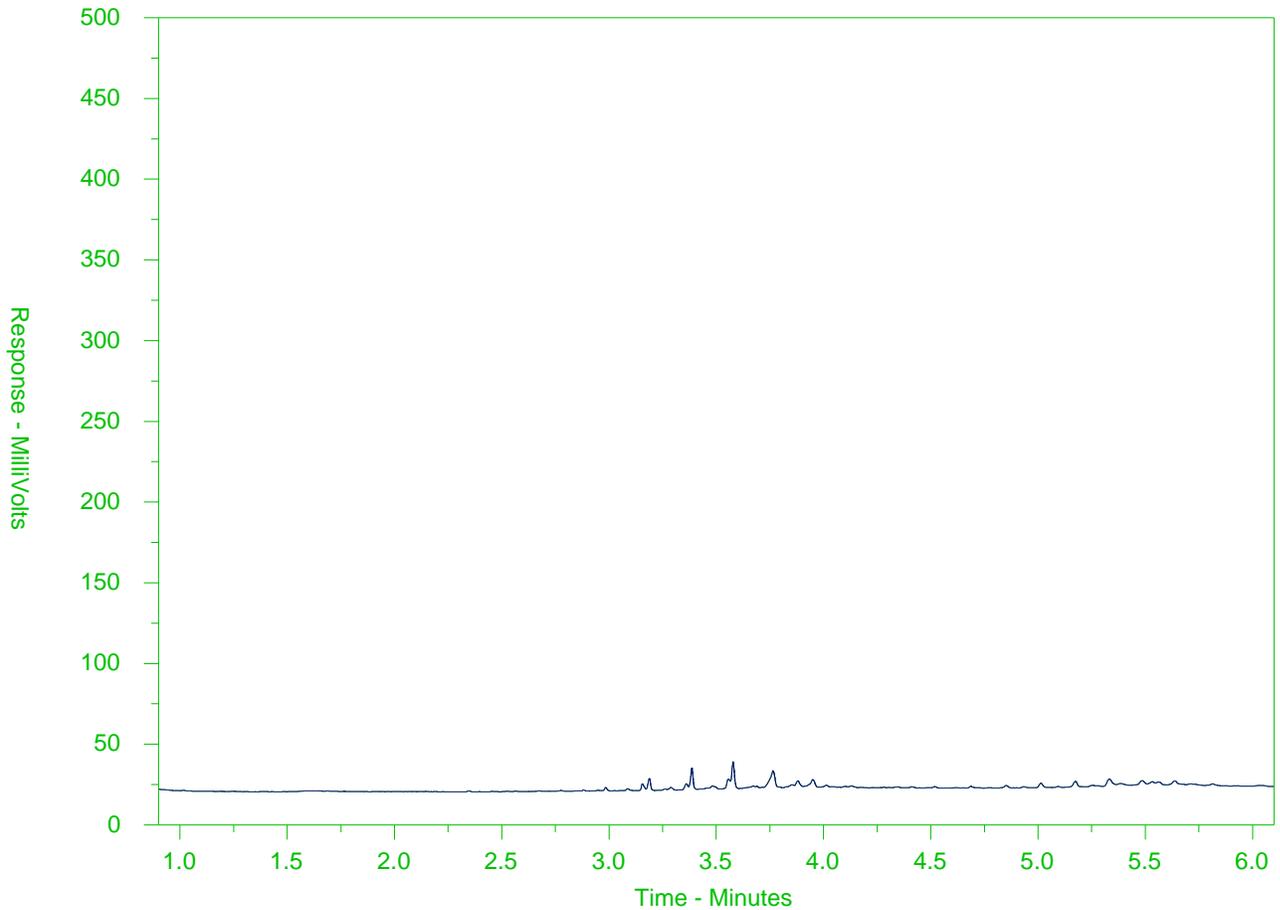
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-012-E601.SG
 Client ID: PH 24-12



← F2		← F3		← F4		→ F4 →
nC10	nC16			nC34	nC50	
174°C	287°C			481°C	575°C	
346°F	549°F			898°F	1067°F	
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

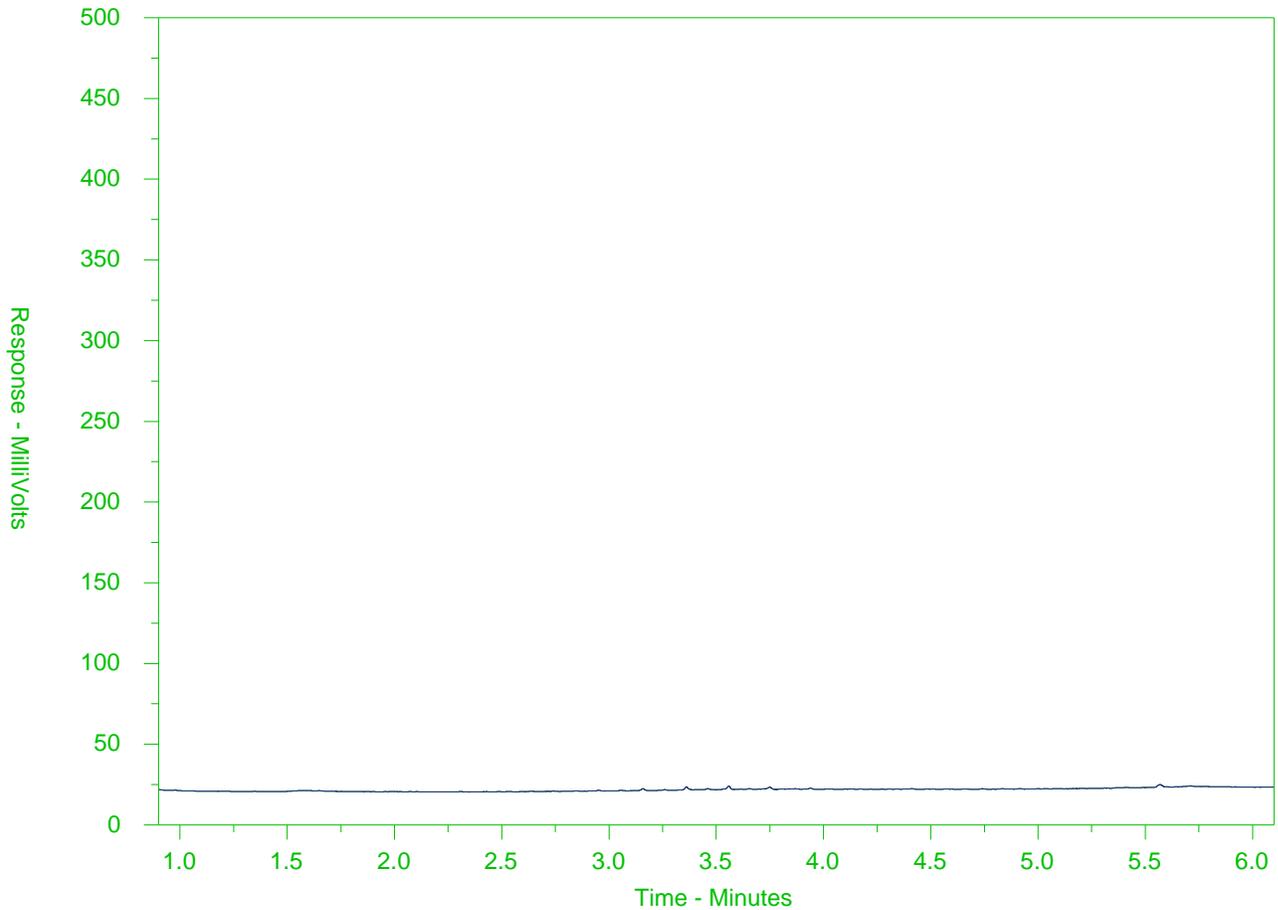
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-013-E601.SG
 Client ID: PH 24-13



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

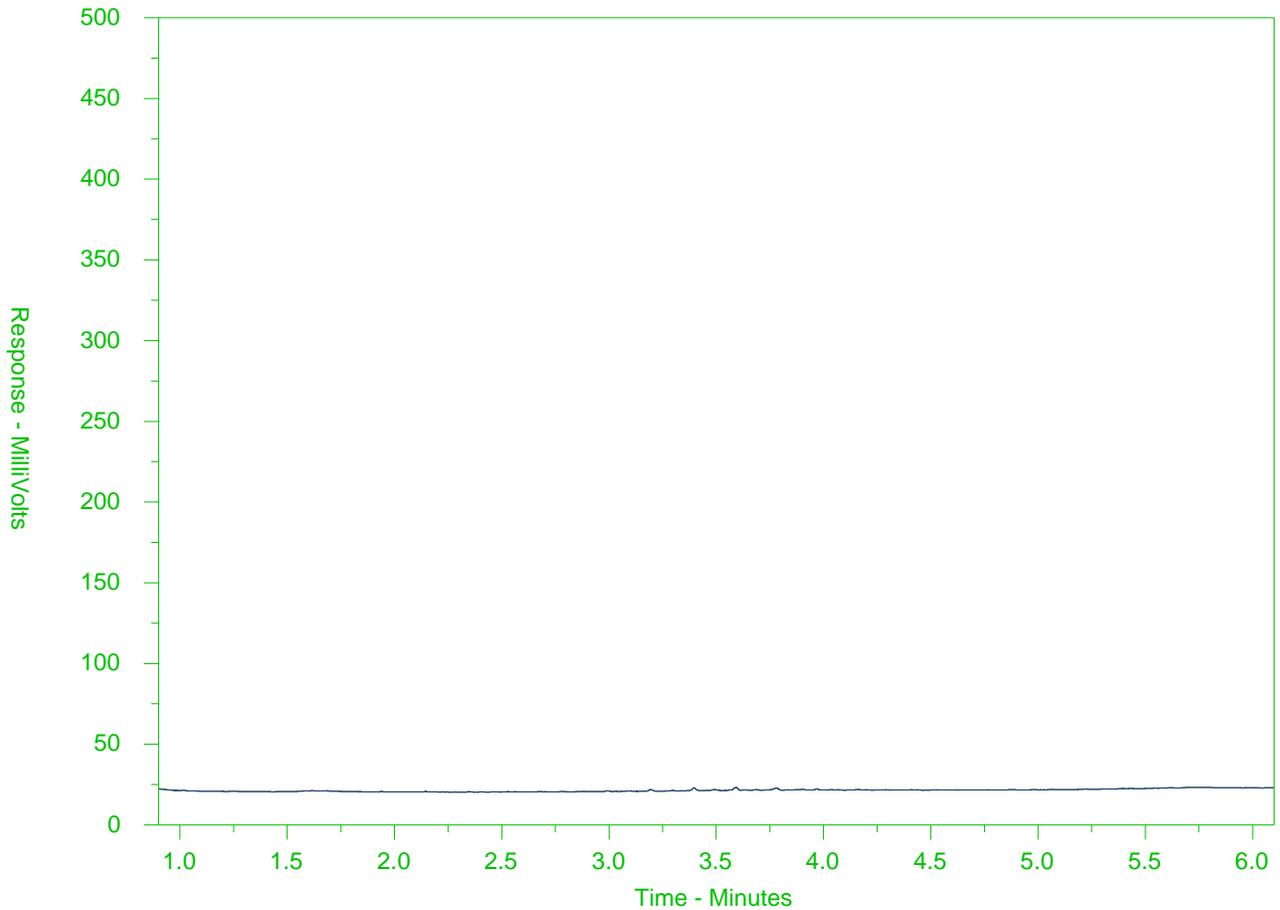
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-014-E601.SG
 Client ID: PH 24-14



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

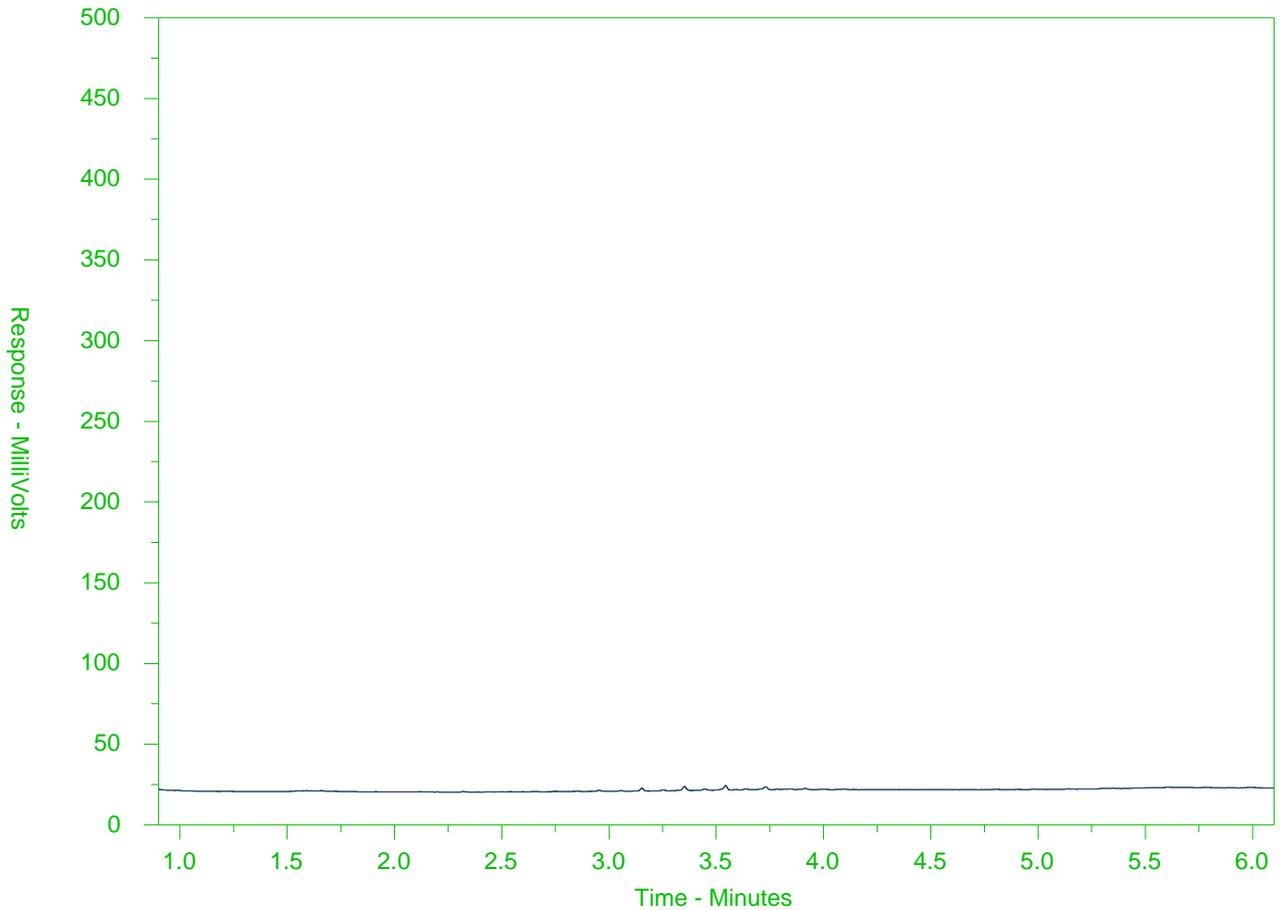
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-015-E601.SG
 Client ID: PH 24-15



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

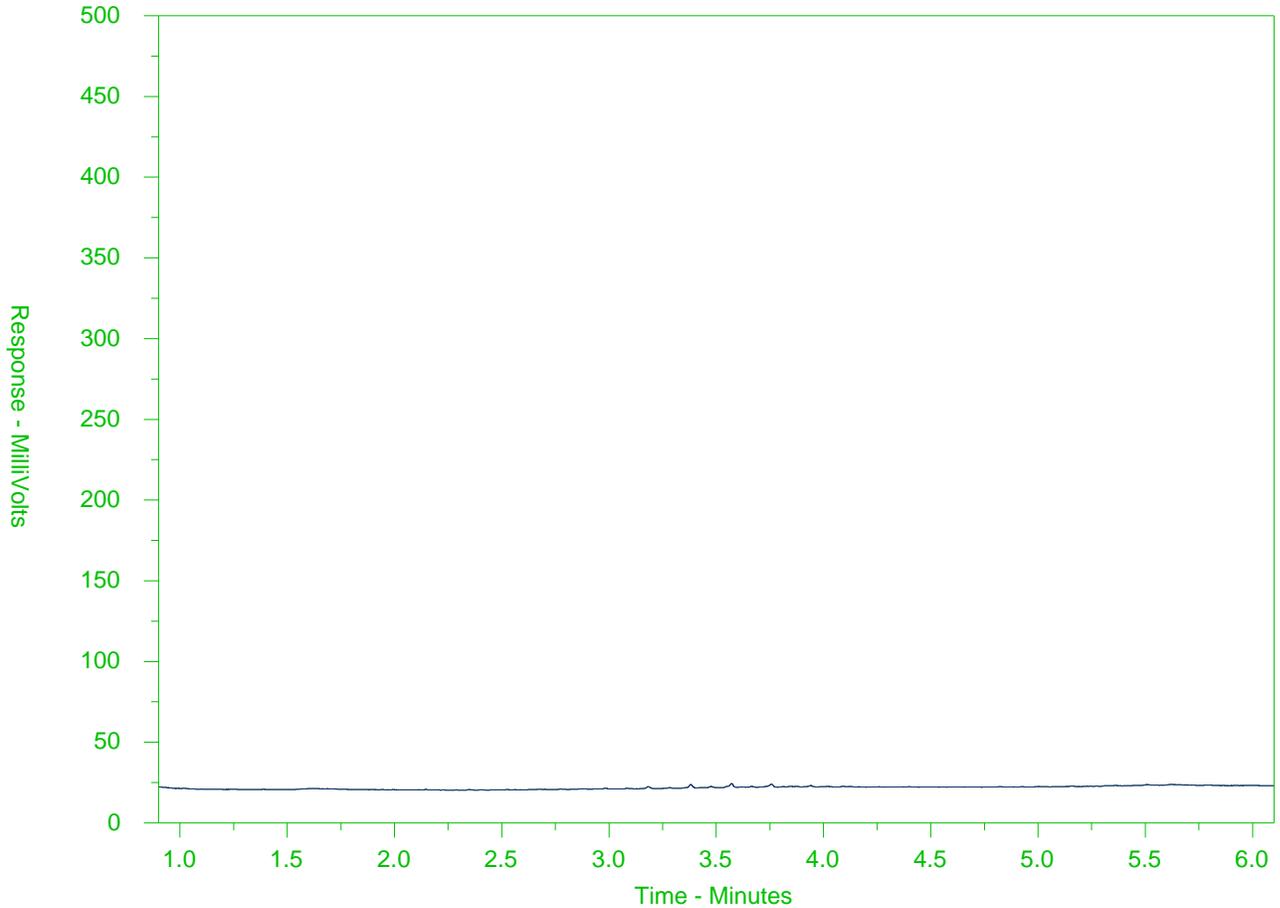
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-016-E601.SG
 Client ID: PH 24-16



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

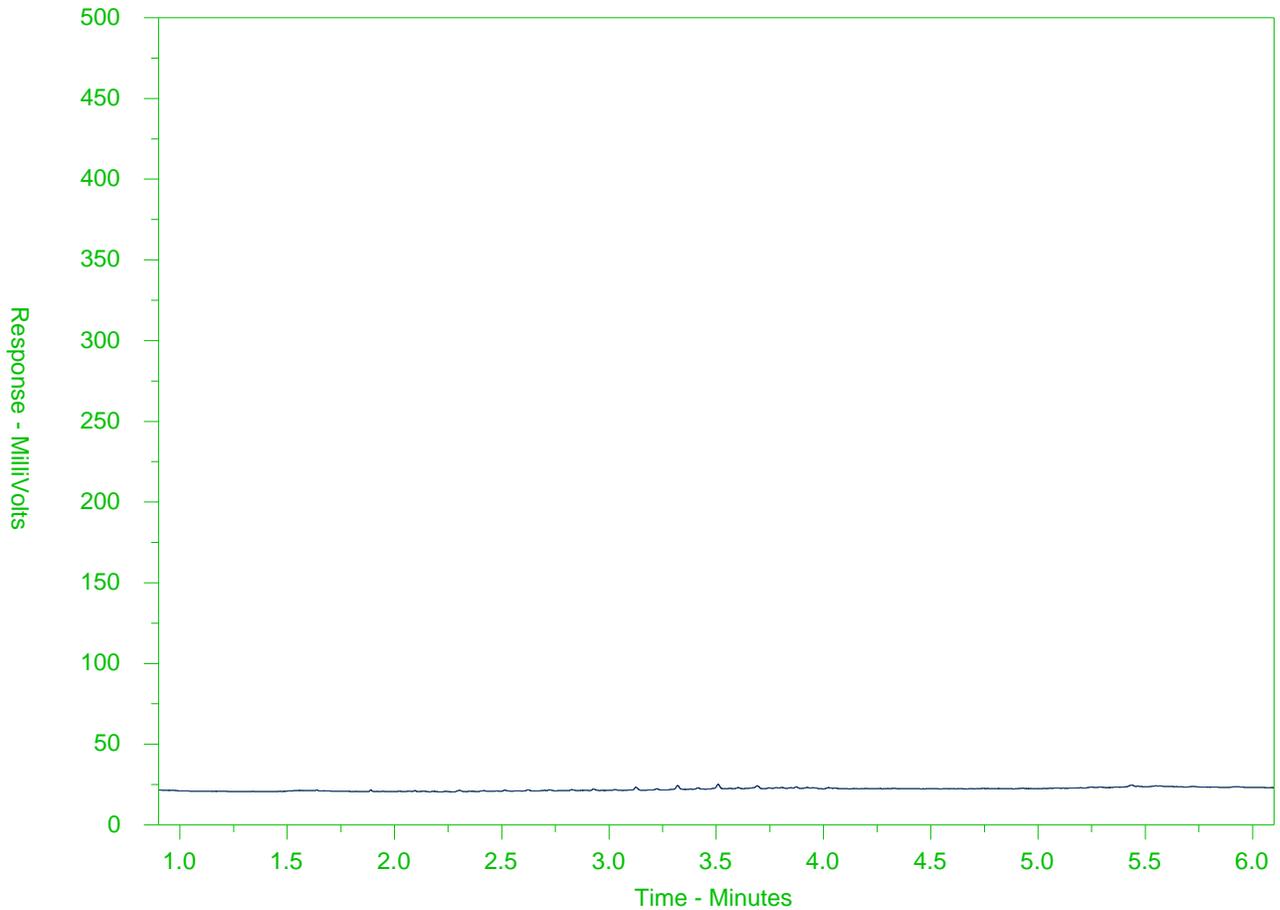
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-017-E601.SG
 Client ID: PH 24-17



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

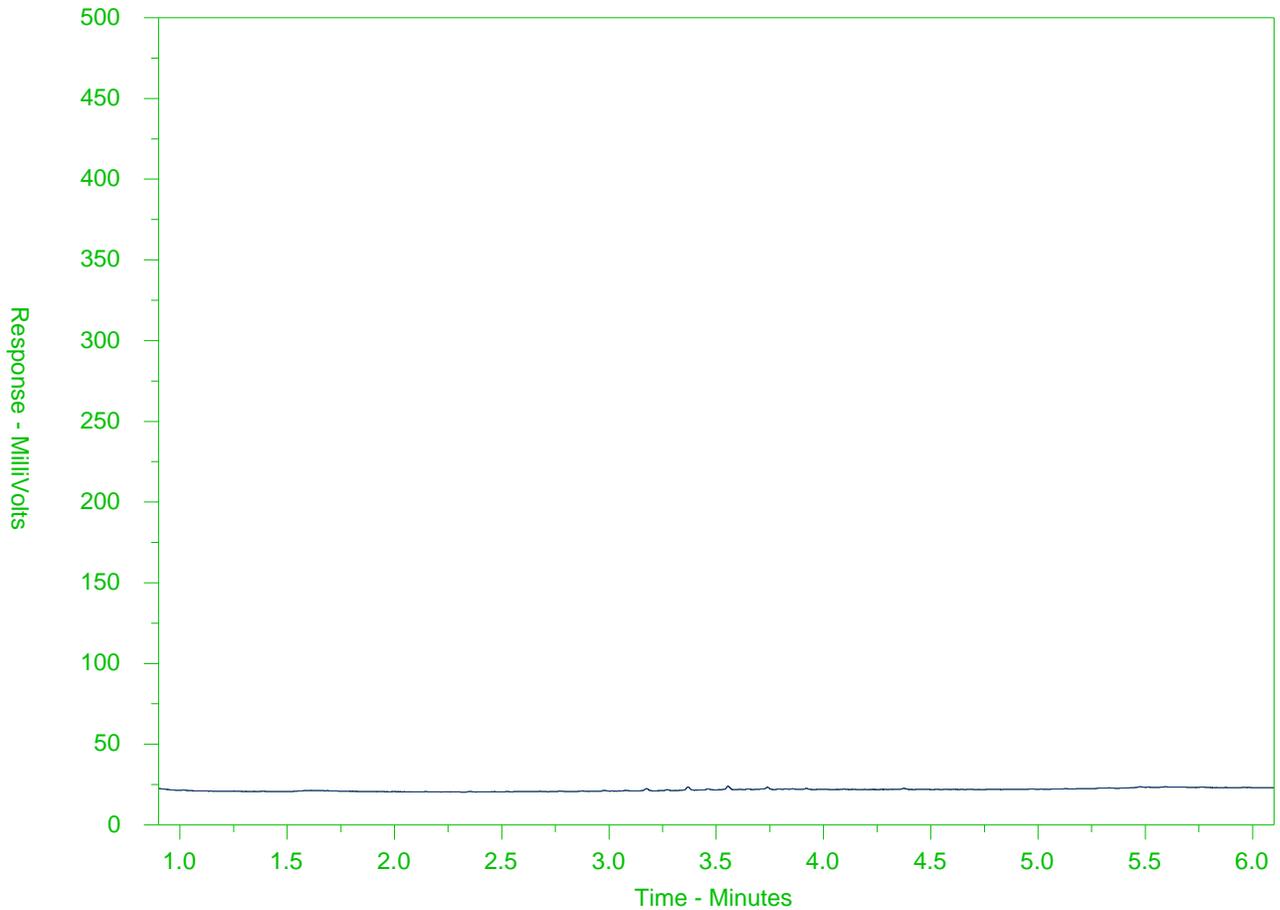
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-018-E601.SG
 Client ID: PH 24-18



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

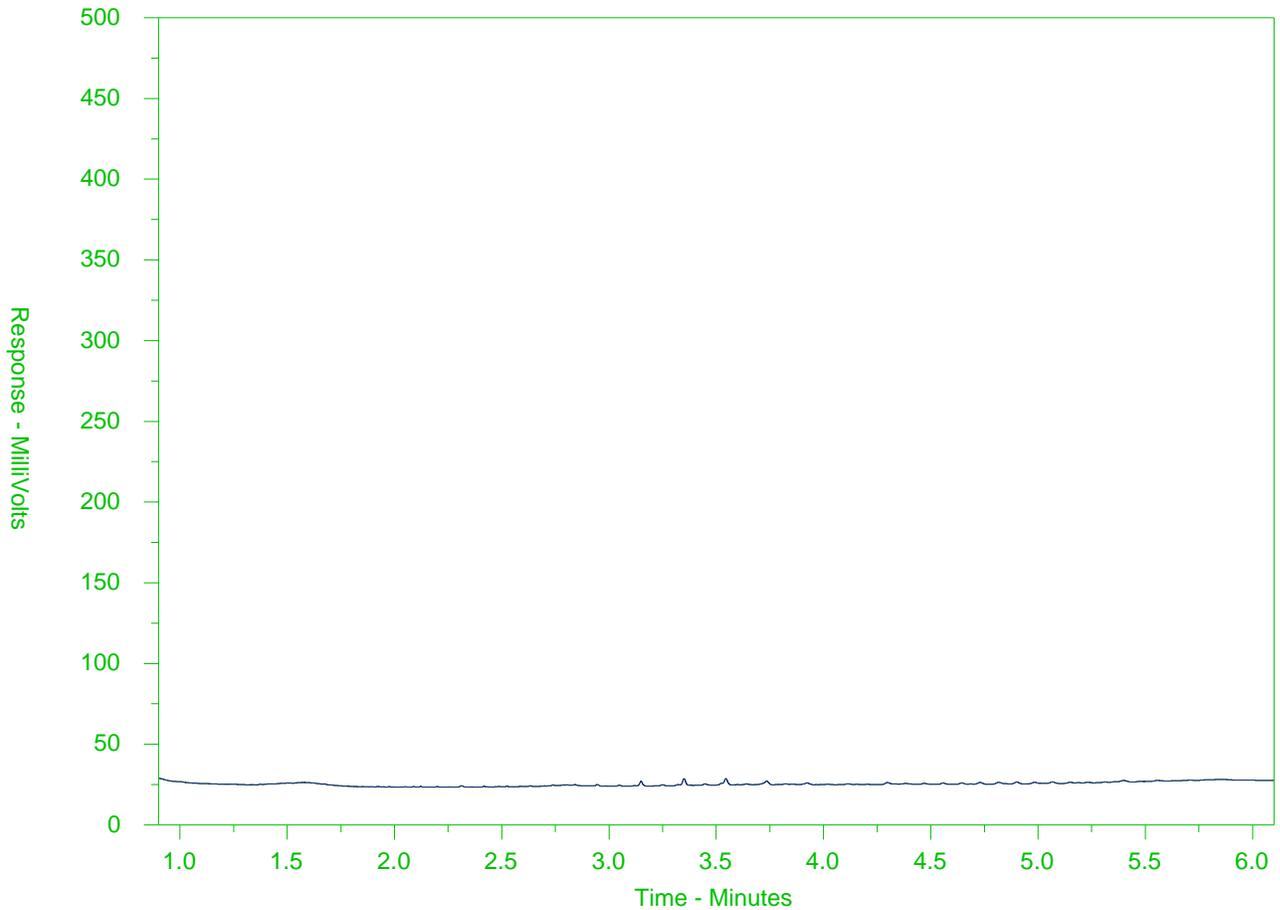
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-019-E601.SG
 Client ID: PH 24-19



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

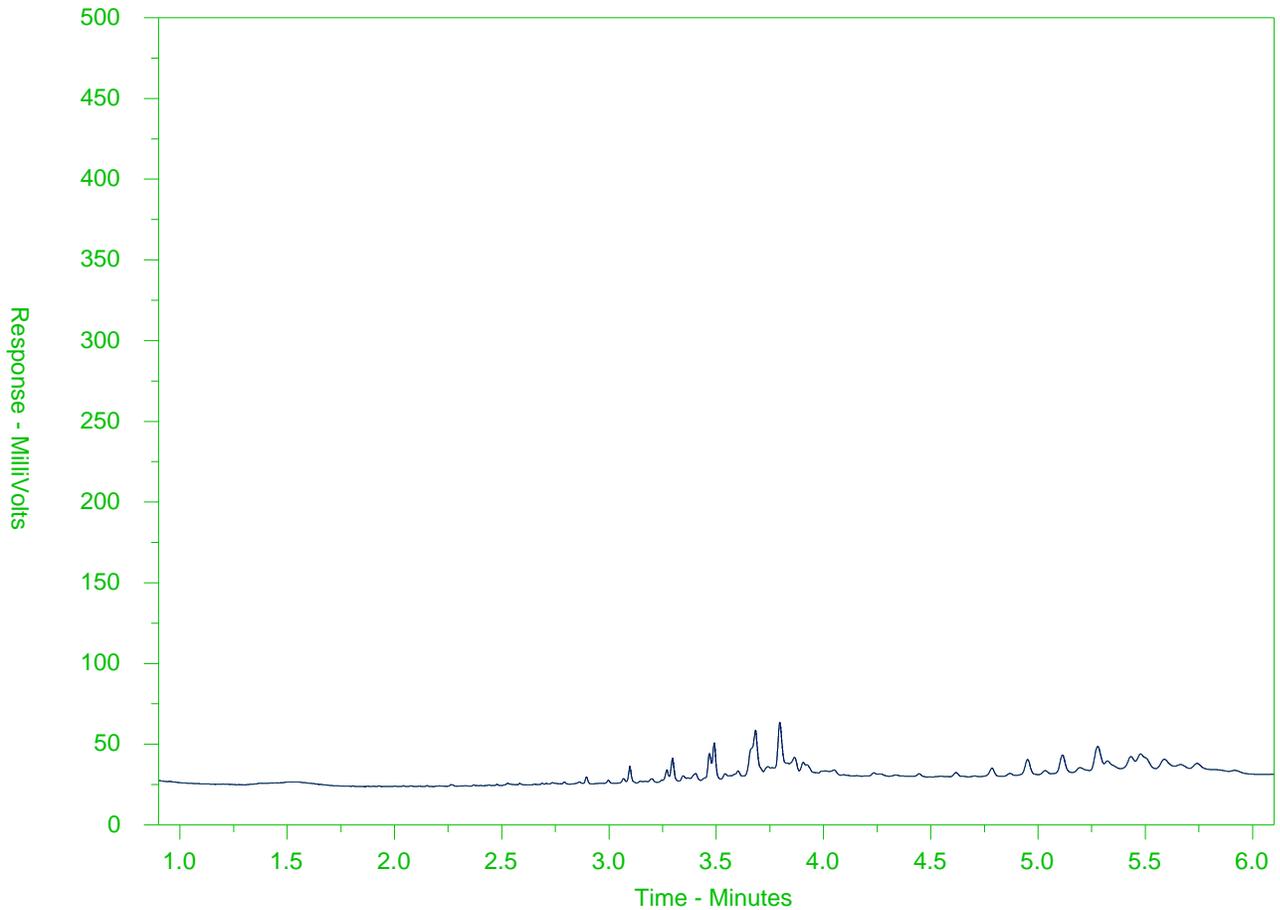
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-020-E601.SG
 Client ID: PH 24-20



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

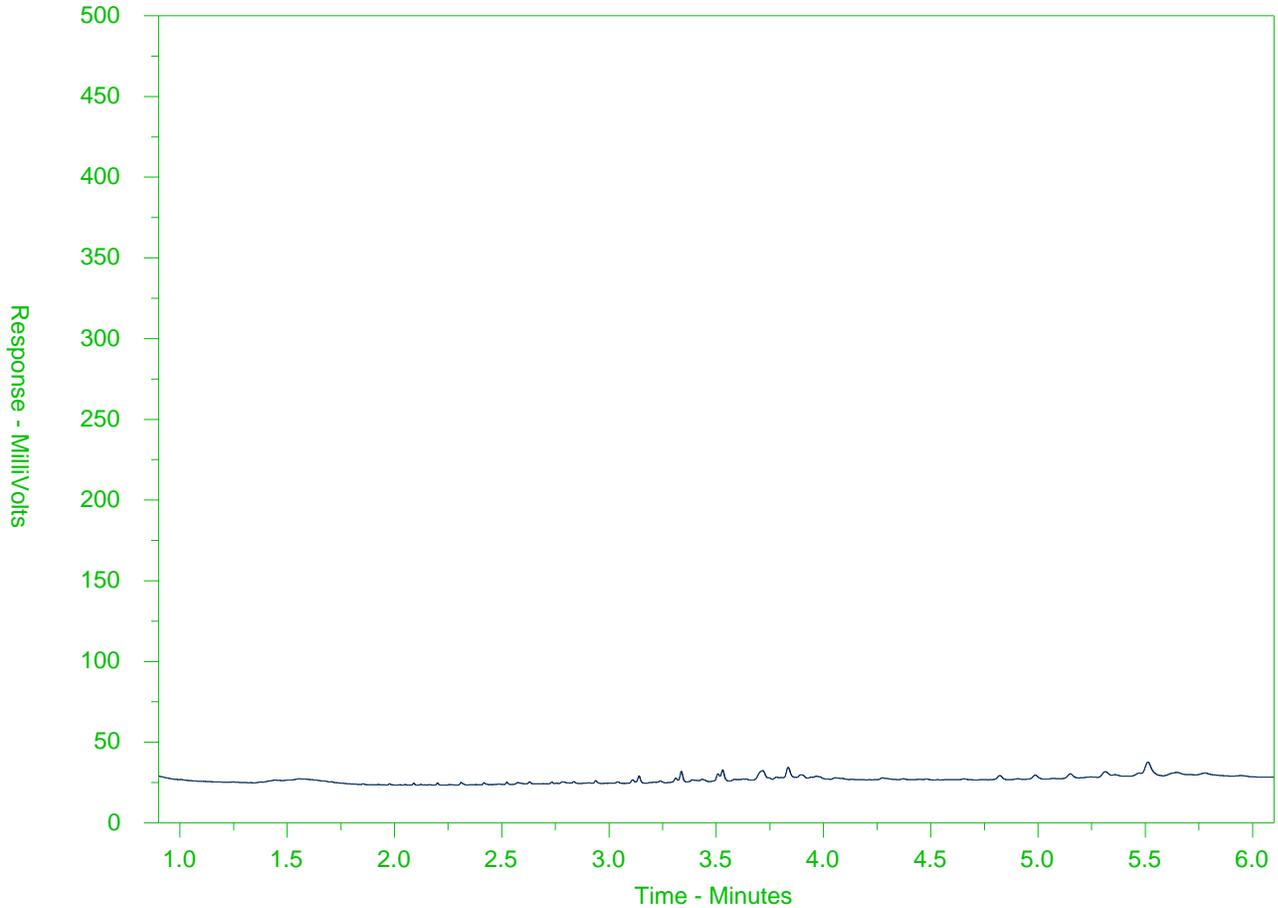
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-021-E601.SG
 Client ID: PH 24-21



← F2		← F3		← F4		→ F4 →
nC10	nC16			nC34	nC50	
174°C	287°C			481°C	575°C	
346°F	549°F			898°F	1067°F	
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

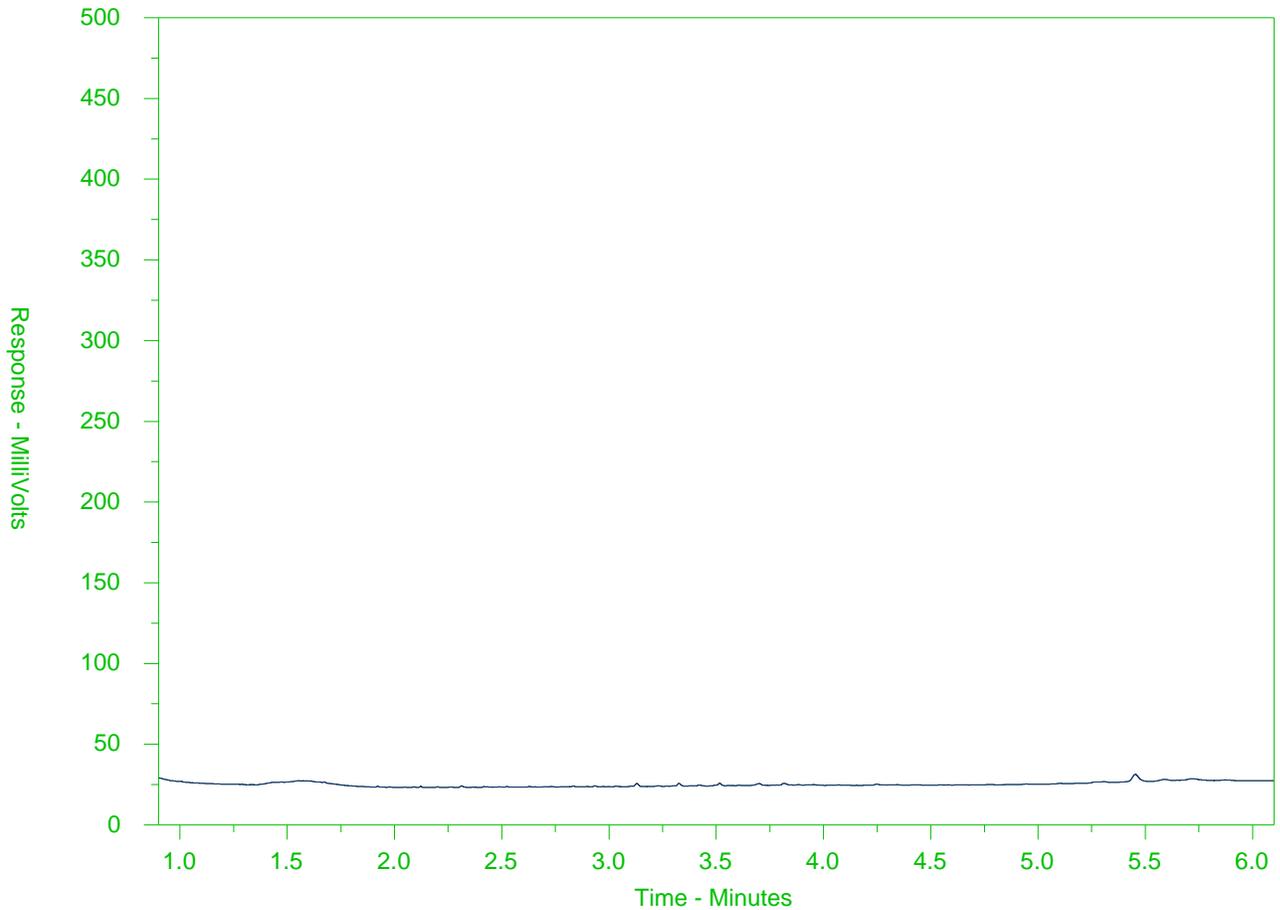
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-022-E601.SG
 Client ID: PH 24-22



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

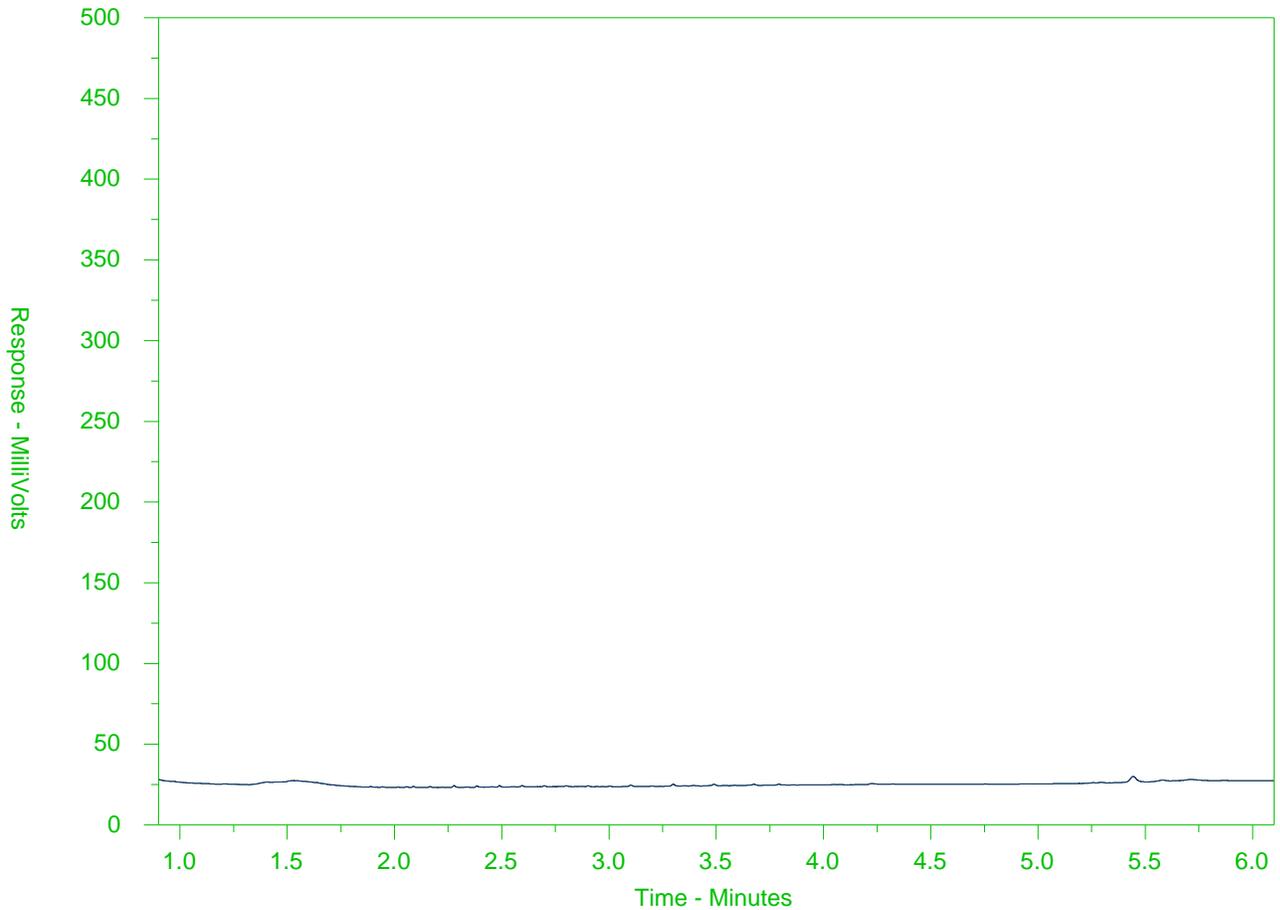
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-022-E601.SG
 Client ID: PH 24-22



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

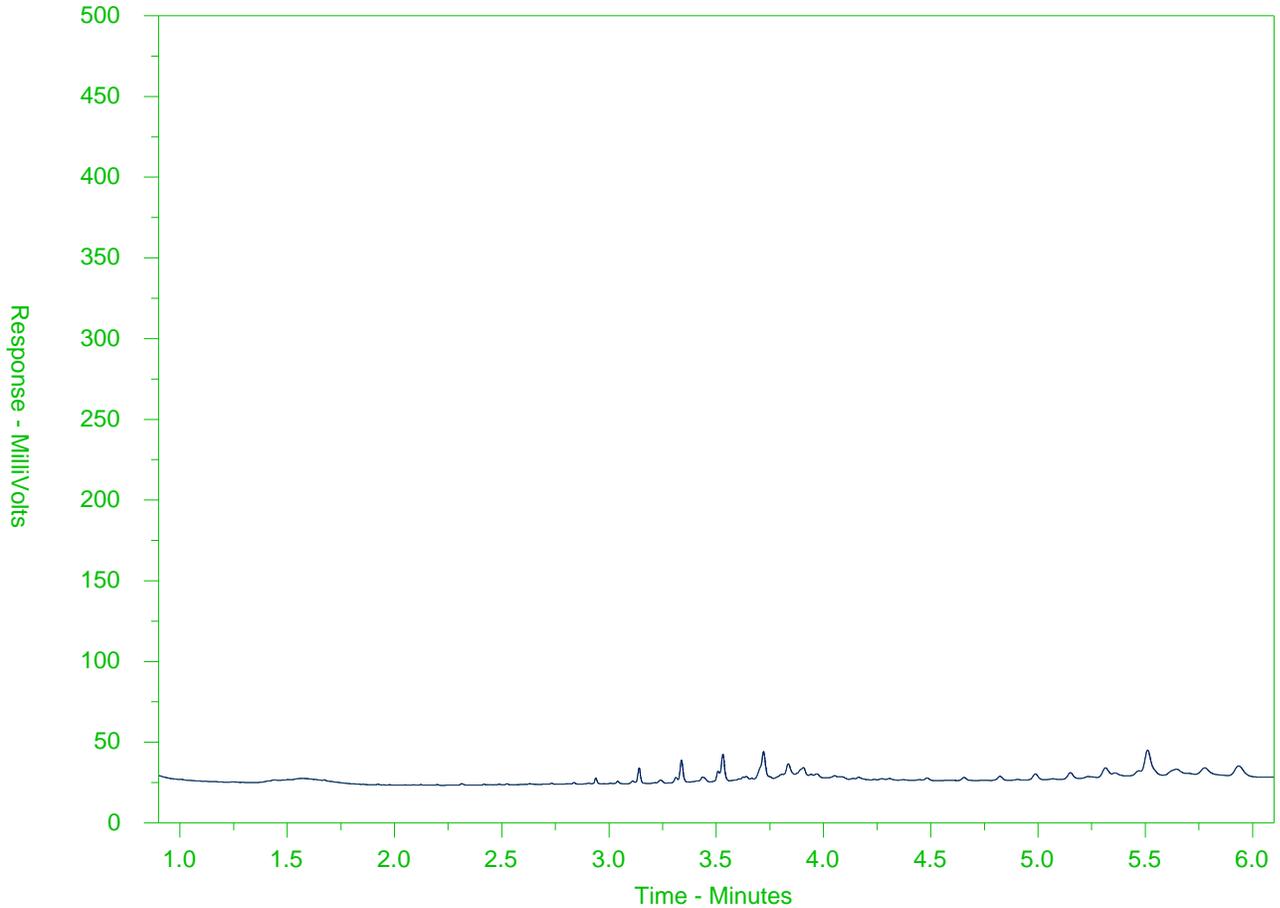
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-023-E601.SG
 Client ID: PH 24-23



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

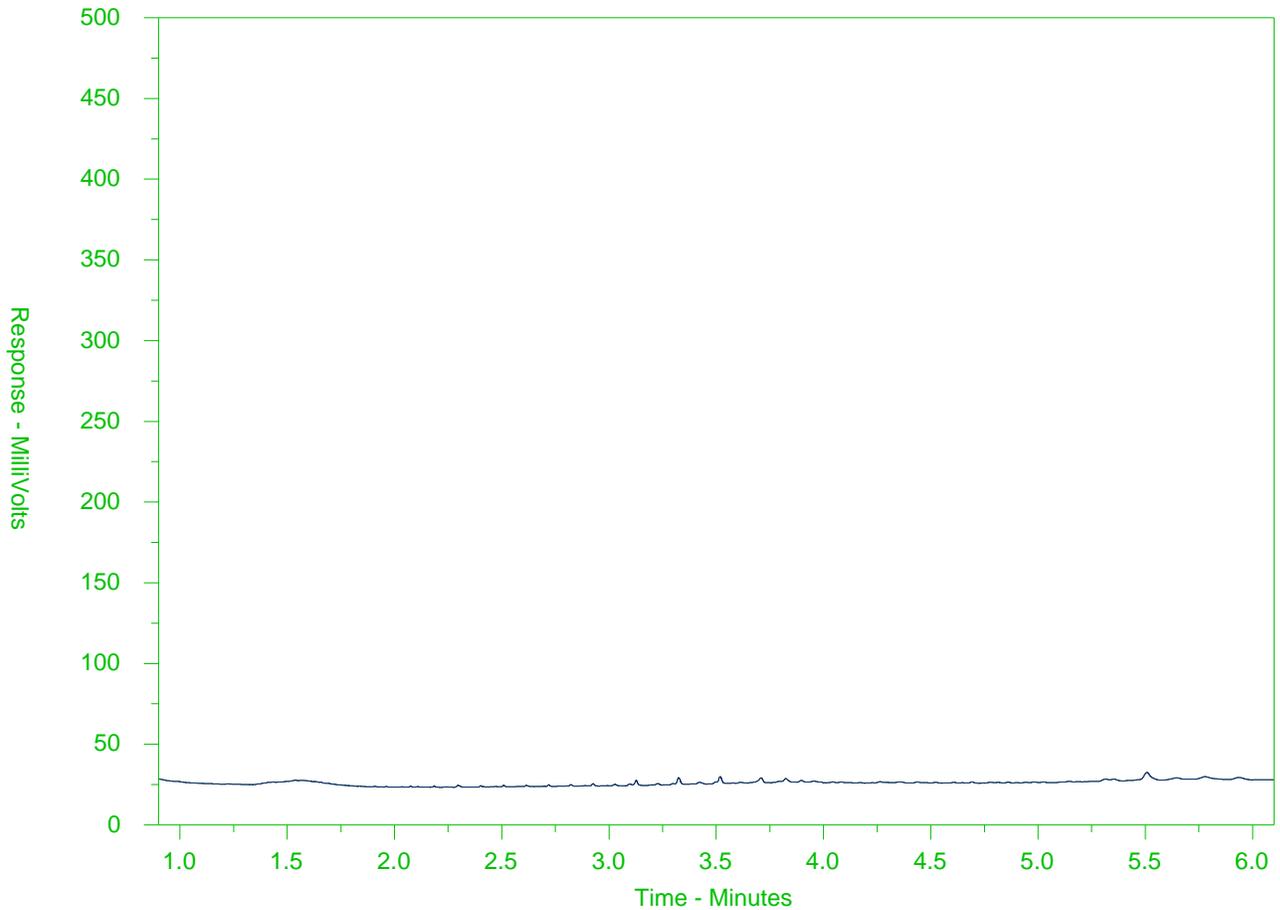
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-024-E601.SG
 Client ID: PH 24-24



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

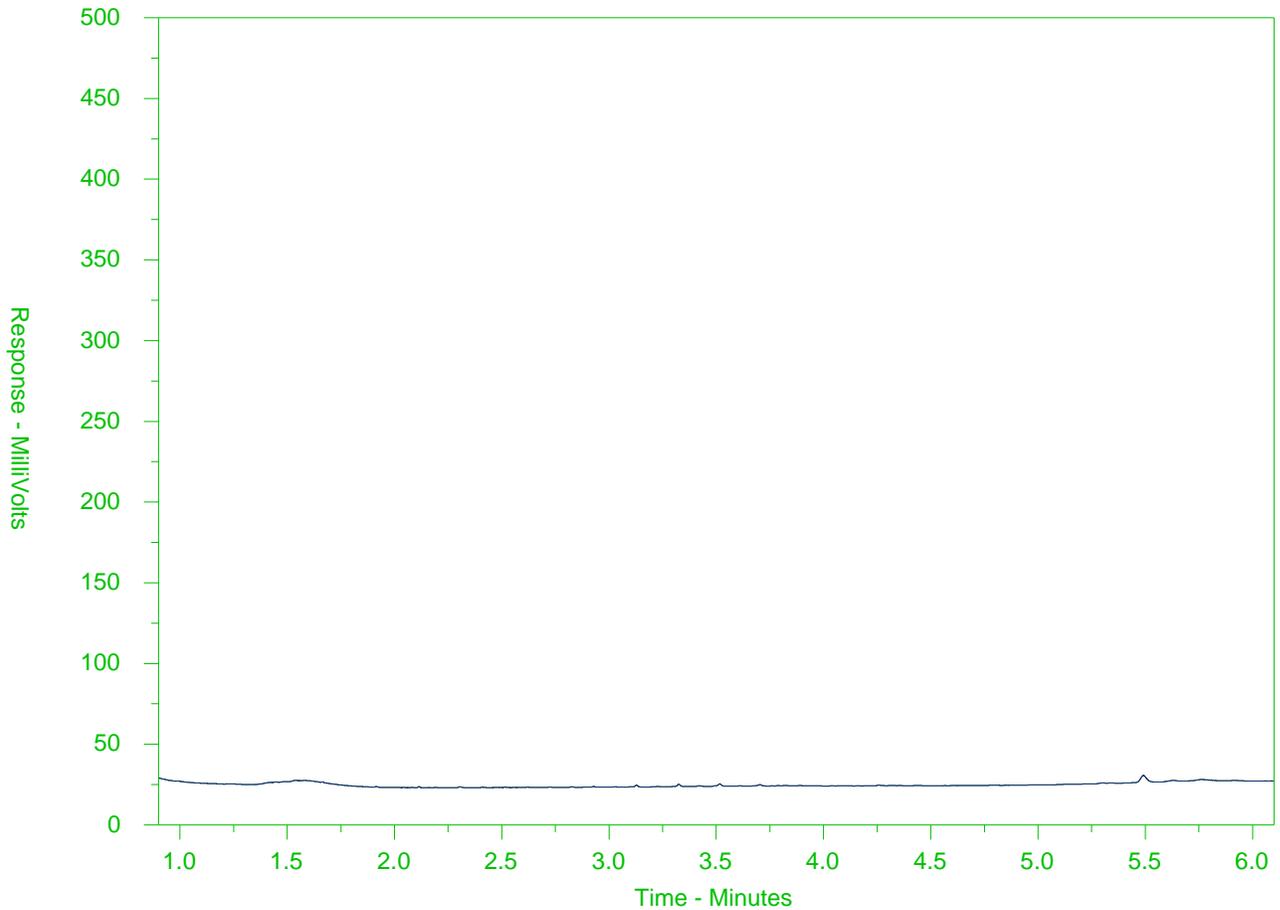
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-025-E601.SG
 Client ID: PH 24-25



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

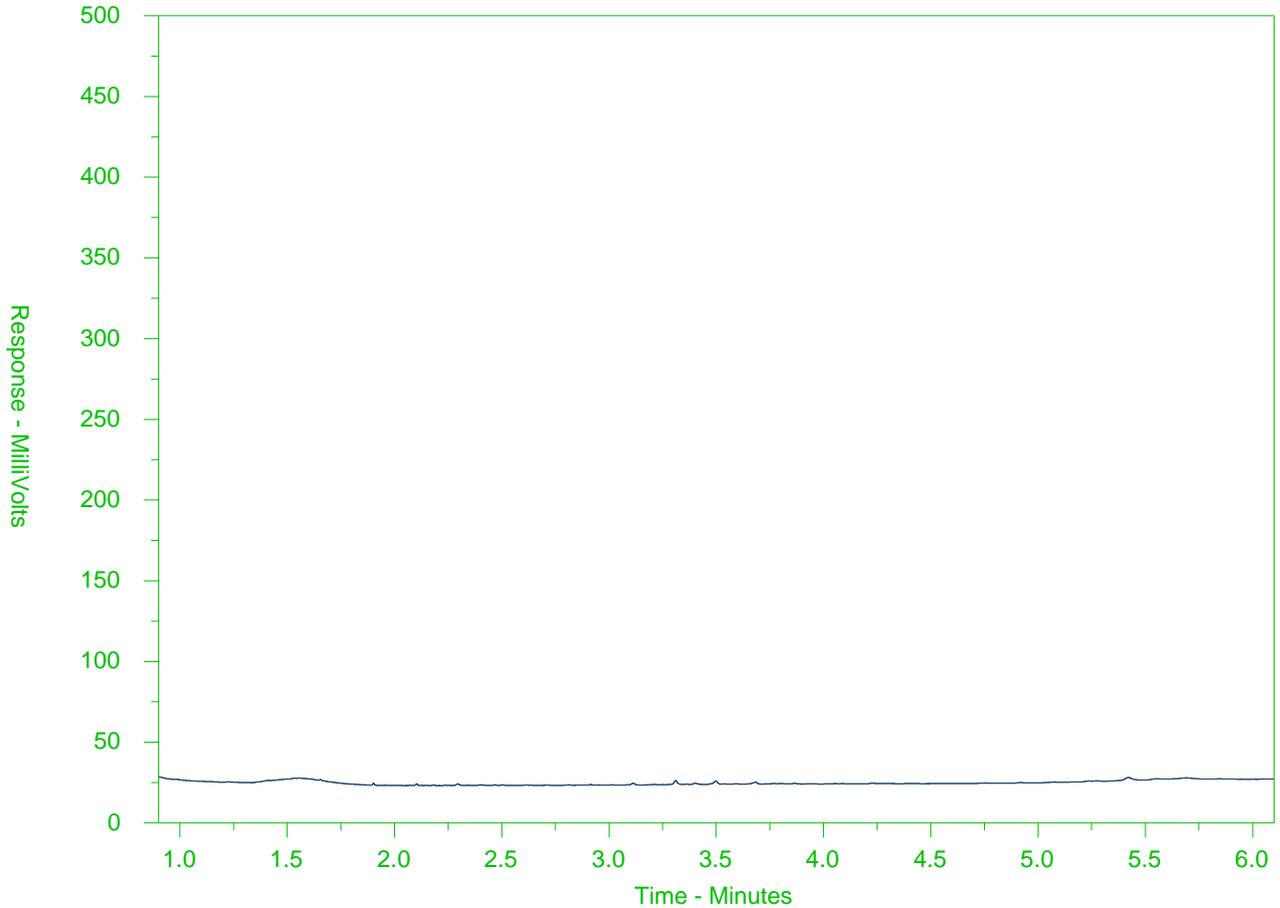
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-026-E601.SG
 Client ID: PH 24-26



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

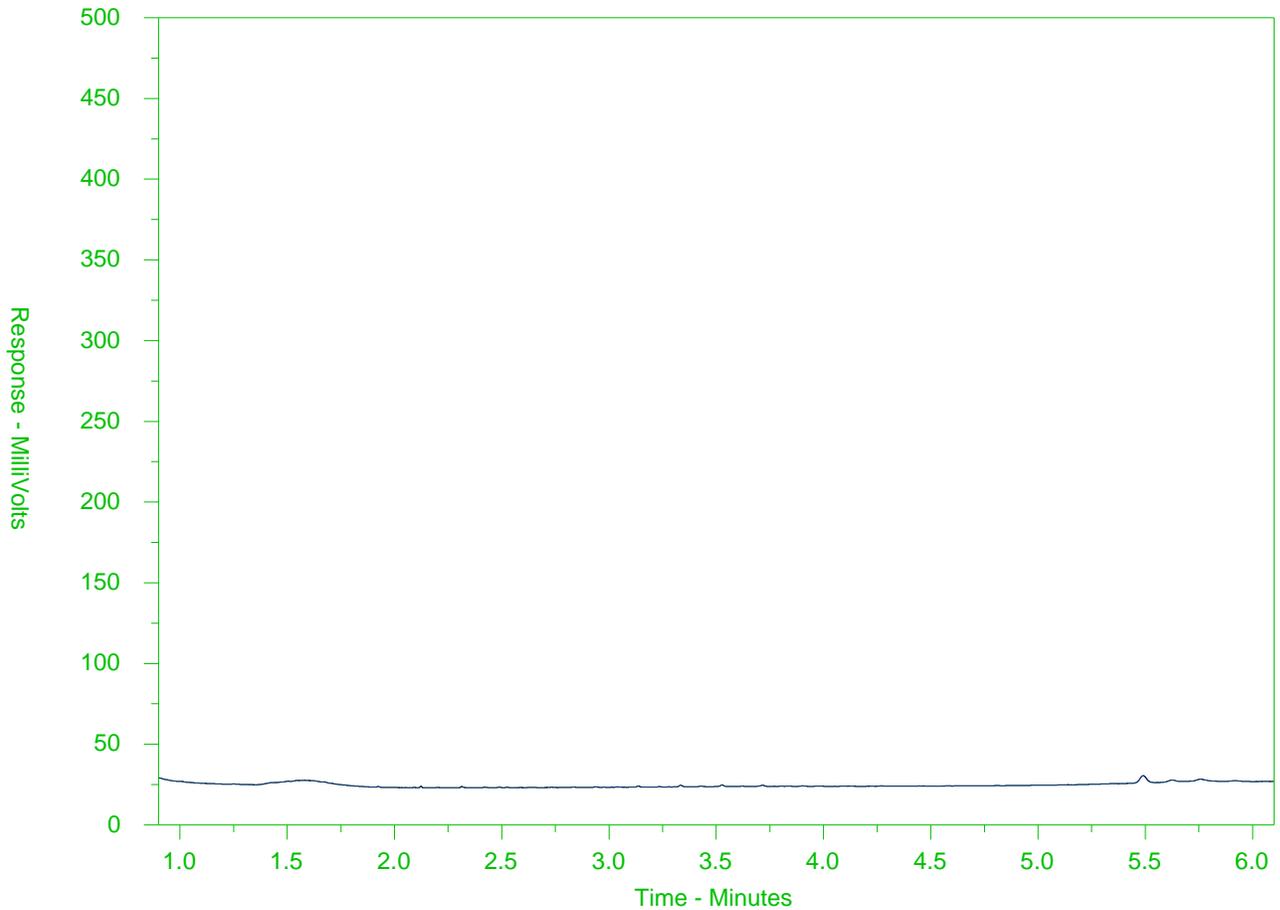
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-027-E601.SG
 Client ID: PH 24-27



← F2		F3		← F4		→ F4 →	
nC10	nC16	nC34	nC50				
174°C	287°C	481°C	575°C				
346°F	549°F	898°F	1067°F				
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →				
← Diesel/ Jet Fuels →							

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.

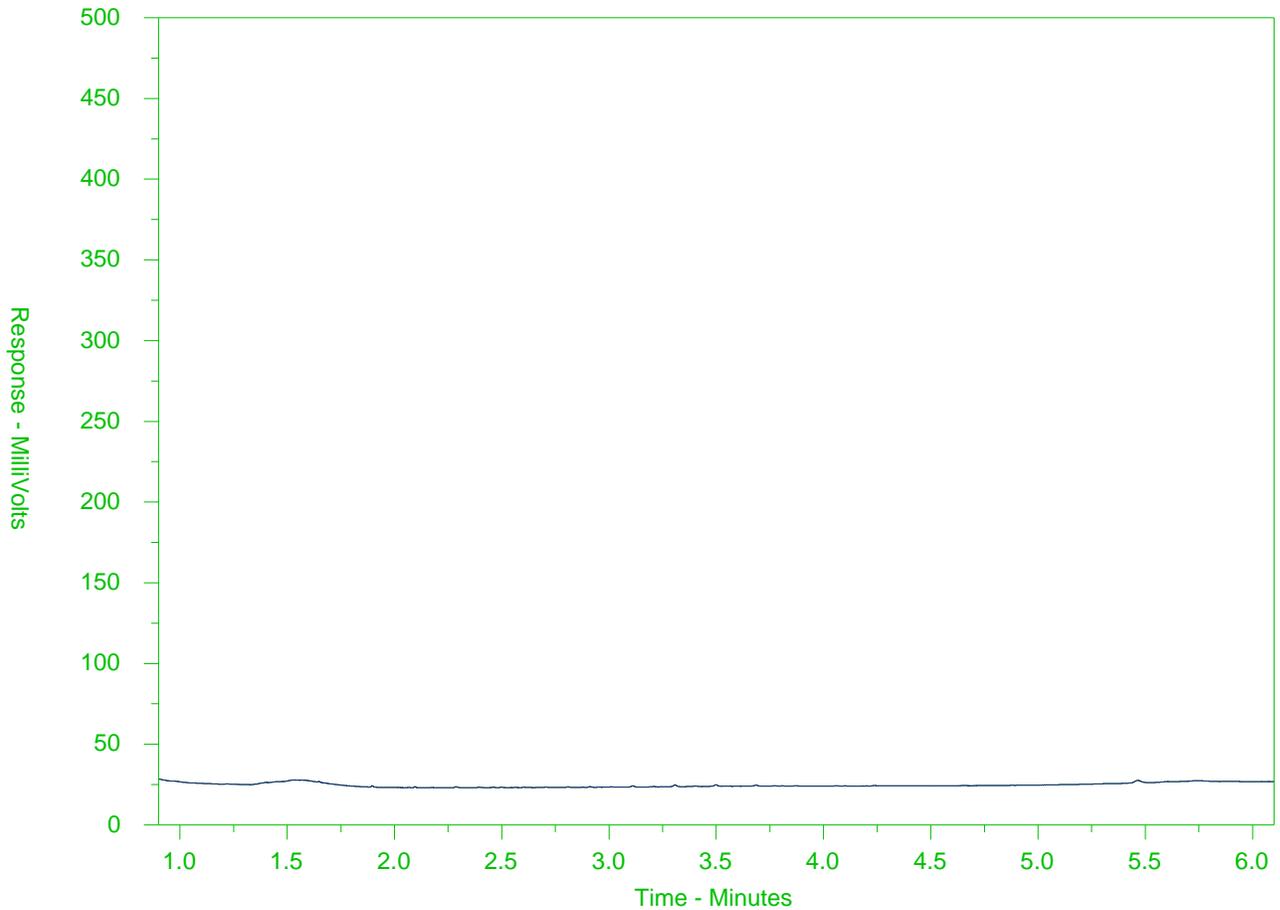
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-028-E601.SG
 Client ID: PH 24-28



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

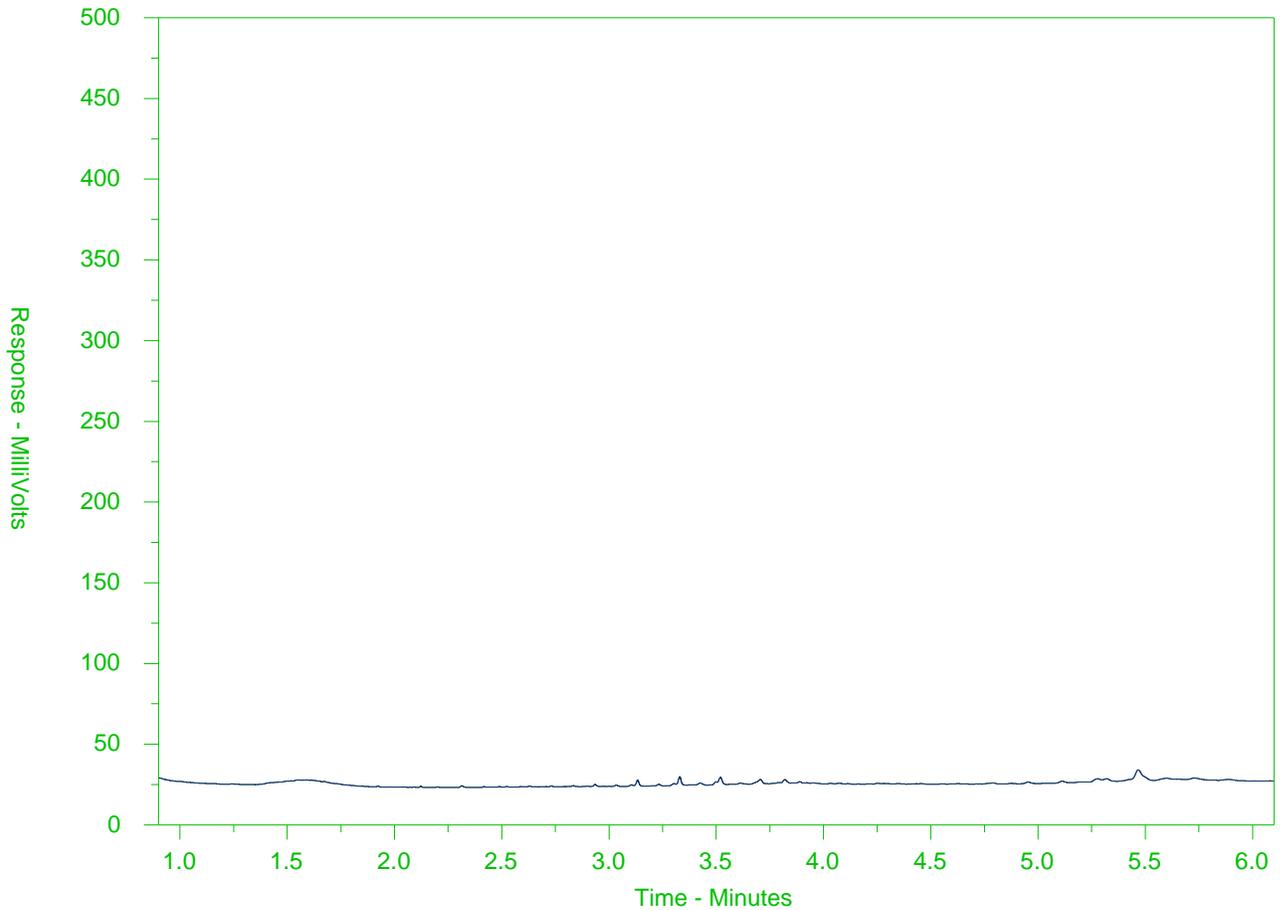
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-029-E601.SG
 Client ID: PH 24-29



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

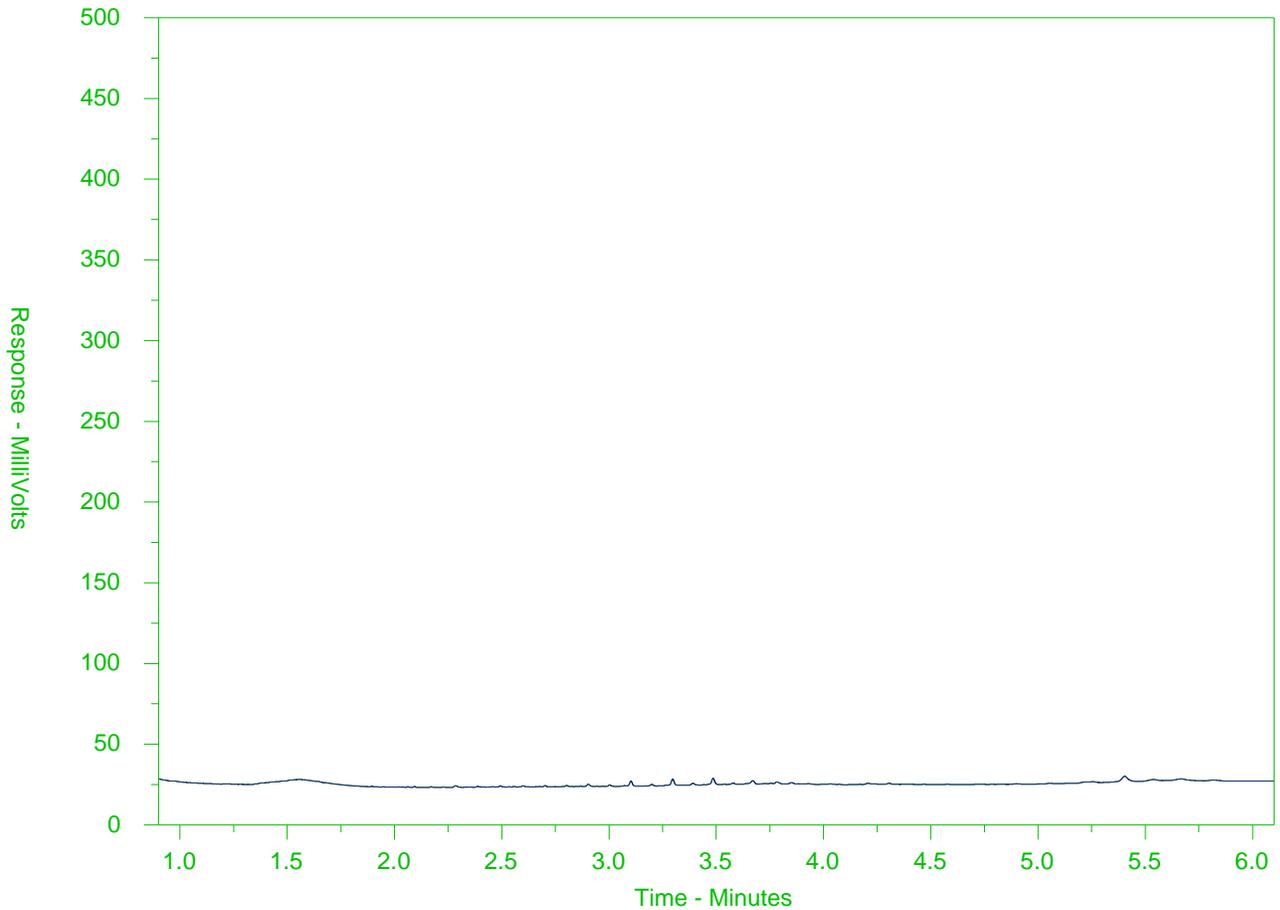
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-030-E601.SG
 Client ID: PH 24-30



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

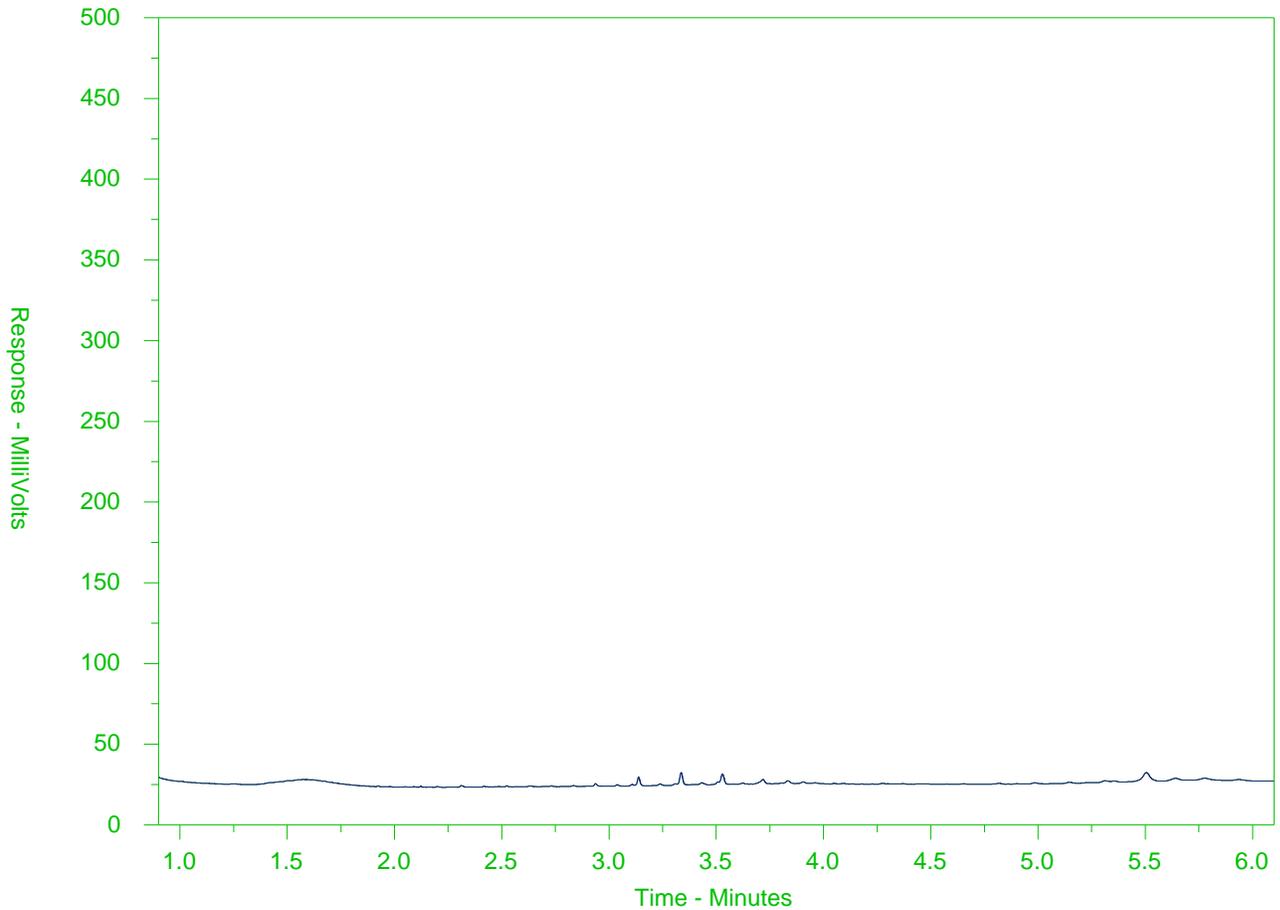
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-031-E601.SG
 Client ID: PH 24-31



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

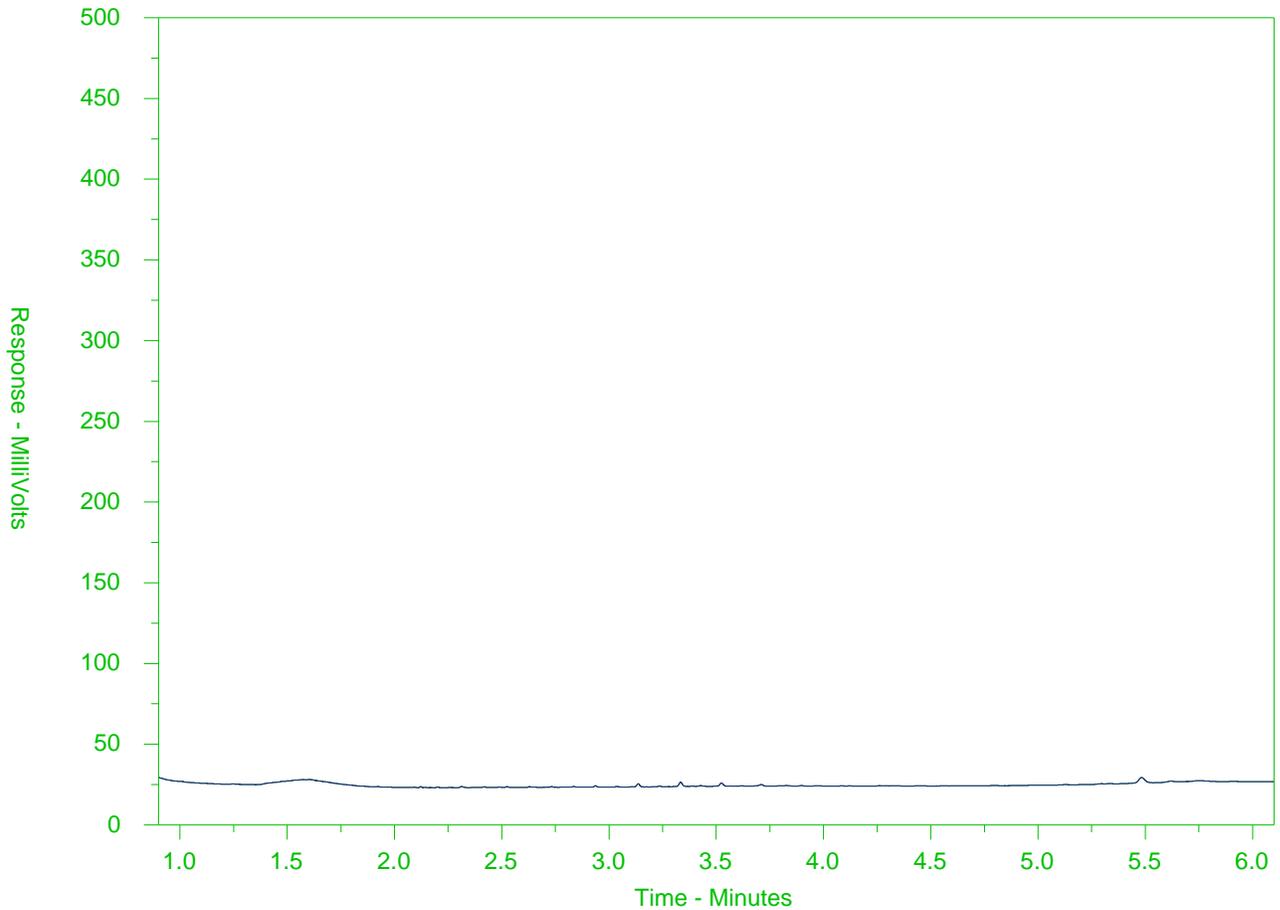
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-032-E601.SG
 Client ID: PH 24-32



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

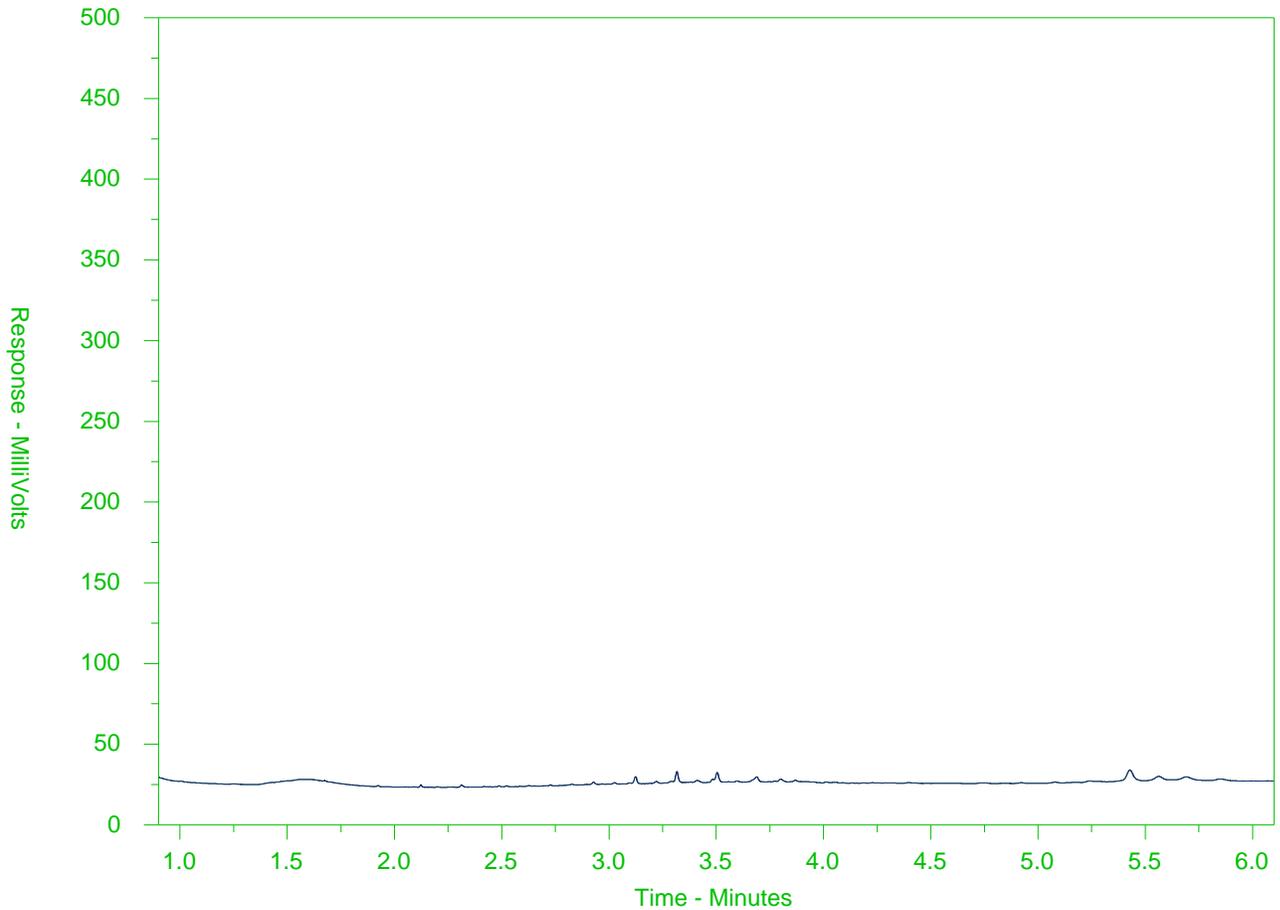
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-033-E601.SG
 Client ID: PH 24-33



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

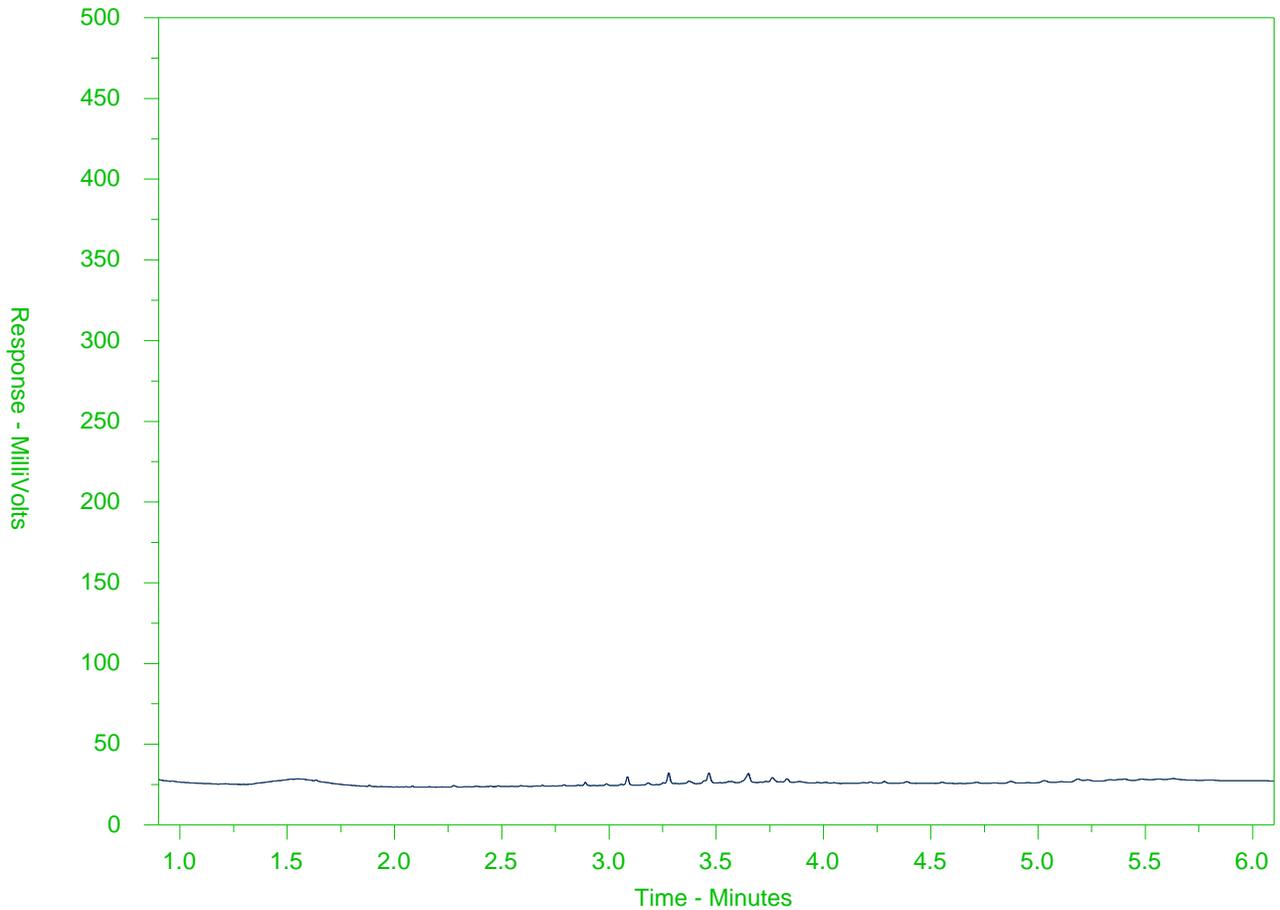
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-034-E601.SG
 Client ID: DUPE 01



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

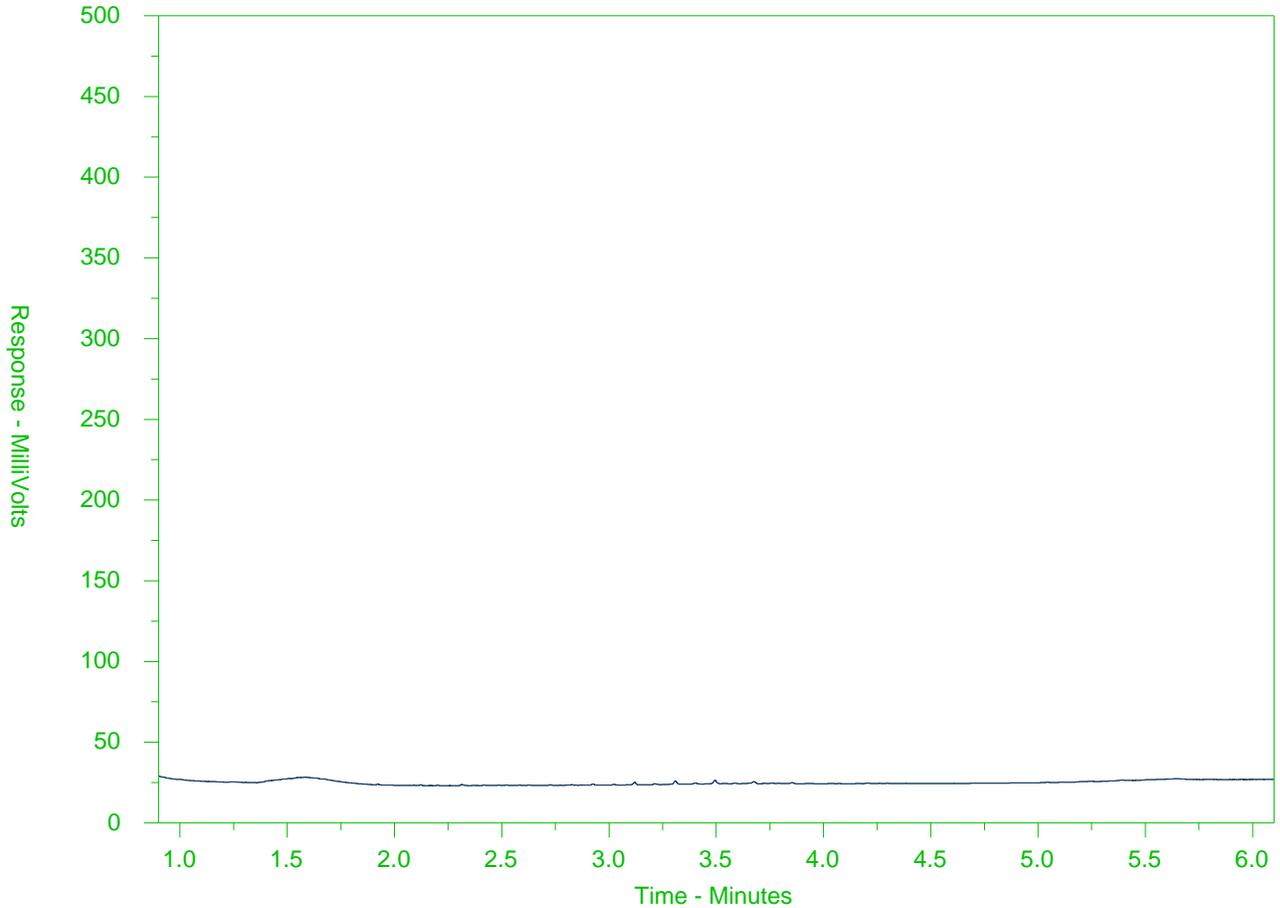
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-035-E601.SG
 Client ID: DUPE 02



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.

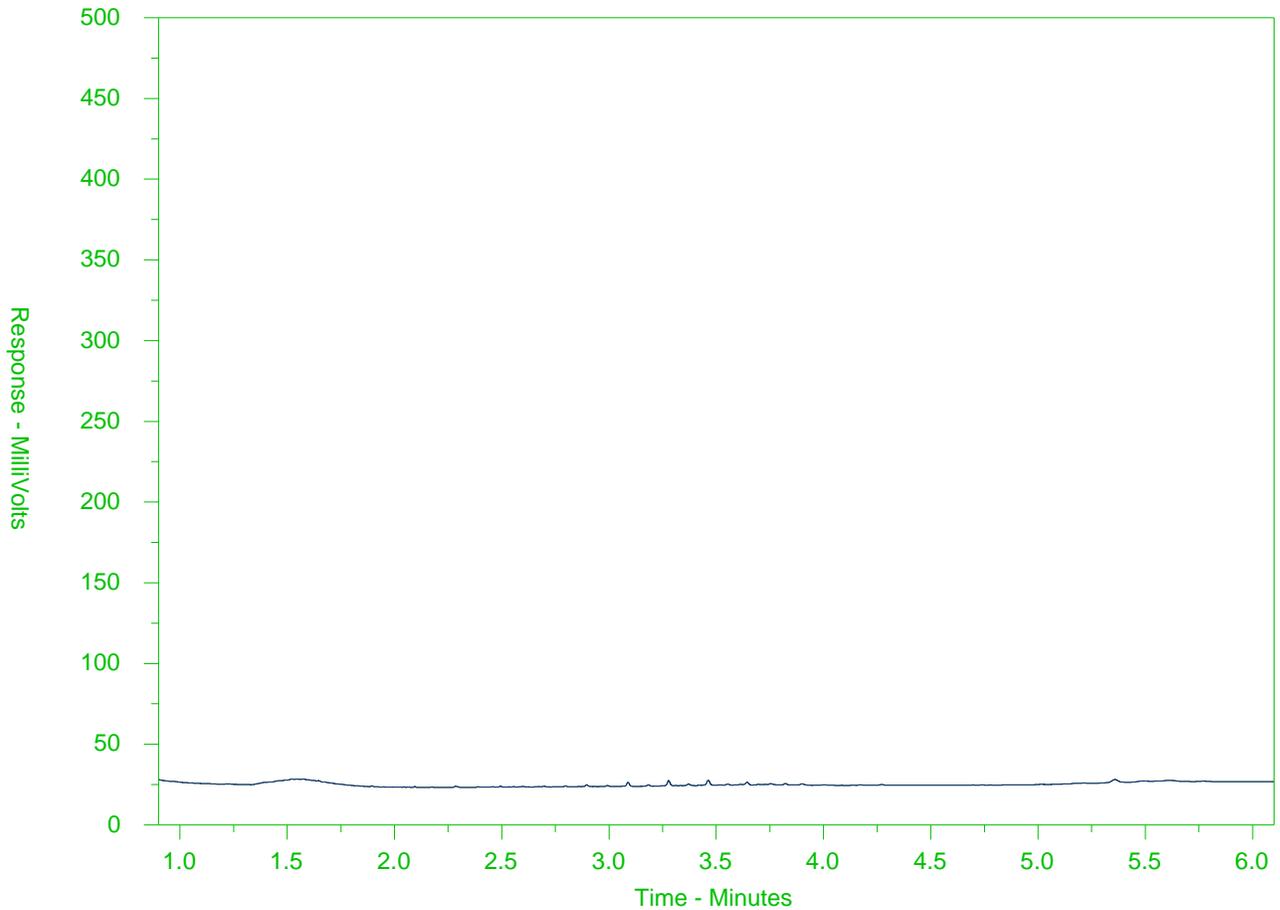
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

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: EO2403252-036-E601.SG
 Client ID: DUPE 03



← F2		← F3		← F4		→ F4 →
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
← Gasoline →			← Motor Oils/ Lube Oils/ Grease →			
← Diesel/ Jet Fuels →						

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.



CERTIFICATE OF ANALYSIS

Work Order	: EO2403790	Page	: 1 of 5
Amendment	: 1		
Client	: Omni-McCann Inc.	Laboratory	: ALS Environmental - Edmonton
Contact	: Meaghan Blackburn	Account Manager	: Kieran Tordoff
Address	: 2404 96 Street Edmonton AB Canada T6N 1J8	Address	: 9450 - 17 Avenue NW Edmonton AB Canada T6N 1M9
Telephone	: 780-435-1154	Telephone	: +1 780 413 5227
Project	: 0199-0101	Date Samples Received	: 22-May-2024 11:38
PO	: 0199-0101	Date Analysis	: 23-May-2024
		Commenced	
C-O-C number	: 20-902181	Issue Date	: 24-Jun-2024 11:07
Sampler	: ----		
Site	: ----		
Quote number	: Edmonton General - Water - 2024 Rates		
No. of samples received	: 3		
No. of samples analysed	: 3		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kari Mulroy	Lab Supervisor - Environmental	Organics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Organics, Edmonton, Alberta
Yan Zhang	Team Leader - Organics	Organics, Edmonton, Alberta



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).

Measurement Uncertainty: The reported uncertainties in this report are expanded uncertainties calculated using a coverage factor of 2, which gives a level of confidence of approximately 95%.

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.

<i>Unit</i>	<i>Description</i>
µg/L	micrograms per litre

>: greater than.

<: less than.

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.

Sample Comments

<i>Sample</i>	<i>Client Id</i>	<i>Comment</i>
EO2403790-001	MW2401	Sample(s) XXX: Samples received with headspace for [x] analysis.

Qualifiers

<i>Qualifier</i>	<i>Description</i>
SHMI	Surrogate recovery was outside ALS DQO (High) due to Matrix Interference



Analytical Results

EO2403790-001

Sub-Matrix: Water

(Matrix: Water)

Client sample ID: MW2401

Client sampling date / time: 21-May-2024 03:00

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Ethylbenzene	100-41-4	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Toluene	108-88-3	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Xylene, m+p-	179601-23-1	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Xylene, o-	95-47-6	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Xylenes, total	1330-20-7	<0.75	-	0.75	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
BTEX, total	----	<1.2	-	1.2	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Hydrocarbons									
F1 (C6-C10)	----	<100	-	100	µg/L	E581.F1/EO	23-May-2024	23-May-2024	1455036
F1-BTEX	----	<100	-	100	µg/L	EC580/EO	-	25-May-2024	-
F2 (C10-C16)	----	<100	-	100	µg/L	E601/EO	23-May-2024	23-May-2024	1455053
F3 (C16-C34)	----	<250	-	250	µg/L	E601/EO	23-May-2024	23-May-2024	1455053
F4 (C34-C50)	----	<250	-	250	µg/L	E601/EO	23-May-2024	23-May-2024	1455053
Hydrocarbons, total (C6-C50)	n/a	<400	-	400	µg/L	EC581/EO	-	24-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	117	-	1.0	%	E601/EO	23-May-2024	23-May-2024	1455053
Dichlorotoluene, 3,4-	95-75-0	117	-	1.0	%	E581.F1/EO	23-May-2024	23-May-2024	1455036
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	100	-	1.0	%	E611A/EO	23-May-2024	23-May-2024	1455035
Difluorobenzene, 1,4-	540-36-3	106	-	1.0	%	E611A/EO	23-May-2024	23-May-2024	1455035

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

EO2403790-002

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID: MW2402

Client sampling date / time: 21-May-2024 02:55

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Ethylbenzene	100-41-4	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Toluene	108-88-3	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Xylene, m+p-	179601-23-1	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Xylene, o-	95-47-6	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Xylenes, total	1330-20-7	<0.75	-	0.75	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
BTEX, total	----	<1.2	-	1.2	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Hydrocarbons									
F1 (C6-C10)	----	<100	-	100	µg/L	E581.F1/EO	23-May-2024	23-May-2024	1455036
F1-BTEX	----	<100	-	100	µg/L	EC580/EO	-	25-May-2024	-
F2 (C10-C16)	----	<100	-	100	µg/L	E601/EO	23-May-2024	23-May-2024	1455053
F3 (C16-C34)	----	<250	-	250	µg/L	E601/EO	23-May-2024	23-May-2024	1455053
F4 (C34-C50)	----	<250	-	250	µg/L	E601/EO	23-May-2024	23-May-2024	1455053
Hydrocarbons, total (C6-C50)	n/a	<400	-	400	µg/L	EC581/EO	-	24-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	106 ^{SHMI}	-	1.0	%	E601/EO	23-May-2024	23-May-2024	1455053
Dichlorotoluene, 3,4-	95-75-0	111	-	1.0	%	E581.F1/EO	23-May-2024	23-May-2024	1455036
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	100	-	1.0	%	E611A/EO	23-May-2024	23-May-2024	1455035
Difluorobenzene, 1,4-	540-36-3	103	-	1.0	%	E611A/EO	23-May-2024	23-May-2024	1455035

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

EO2403790-003

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID: MW2403

Client sampling date / time: 21-May-2024 02:55

Analyte	CAS Number	Result	Measurement Uncertainty	LOR	Unit	Method/Lab	Prep Date	Analysis Date	QCLot
Volatile Organic Compounds [BTEXS+MTBE]									
Benzene	71-43-2	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Ethylbenzene	100-41-4	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Toluene	108-88-3	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Xylene, m+p-	179601-23-1	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Xylene, o-	95-47-6	<0.50	-	0.50	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Xylenes, total	1330-20-7	<0.75	-	0.75	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
BTEX, total	----	<1.2	-	1.2	µg/L	E611A/EO	23-May-2024	23-May-2024	1455035
Hydrocarbons									
F1 (C6-C10)	----	<100	-	100	µg/L	E581.F1/EO	23-May-2024	23-May-2024	1455036
F1-BTEX	----	<100	-	100	µg/L	EC580/EO	-	25-May-2024	-
F2 (C10-C16)	----	140	± 20	100	µg/L	E601/EO	23-May-2024	23-May-2024	1455053
F3 (C16-C34)	----	330	± 40	250	µg/L	E601/EO	23-May-2024	23-May-2024	1455053
F4 (C34-C50)	----	280	± 50	250	µg/L	E601/EO	23-May-2024	23-May-2024	1455053
Hydrocarbons, total (C6-C50)	n/a	750	-	400	µg/L	EC581/EO	-	24-May-2024	-
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	116	-	1.0	%	E601/EO	23-May-2024	23-May-2024	1455053
Dichlorotoluene, 3,4-	95-75-0	107	-	1.0	%	E581.F1/EO	23-May-2024	23-May-2024	1455036
Volatile Organic Compounds Surrogates									
Bromofluorobenzene, 4-	460-00-4	99.7	-	1.0	%	E611A/EO	23-May-2024	23-May-2024	1455035
Difluorobenzene, 1,4-	540-36-3	105	-	1.0	%	E611A/EO	23-May-2024	23-May-2024	1455035

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.

QUALITY CONTROL INTERPRETIVE REPORT

<p>Work Order : EO2403790</p> <p>Amendment : 1</p> <p>Client : Omni-McCann Inc.</p> <p>Contact : Meaghan Blackburn</p> <p>Address : 2404 96 Street Edmonton AB Canada T6N 1J8</p> <p>Telephone : 780-435-1154</p> <p>Project : 0199-0101</p> <p>PO : 0199-0101</p> <p>C-O-C number : 20-902181</p> <p>Sampler : ----</p> <p>Site : ----</p> <p>Quote number : Edmonton General - Water - 2024 Rates</p> <p>No. of samples received : 3</p> <p>No. of samples analysed : 3</p>	<p>Page : 1 of 6</p> <p>Laboratory : ALS Environmental - Edmonton</p> <p>Account Manager : Kieran Tordoff</p> <p>Address : 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9</p> <p>Telephone : +1 780 413 5227</p> <p>Date Samples Received : 22-May-2024 11:38</p> <p>Issue Date : 24-Jun-2024 11:07</p>
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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 Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- 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.



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: **Water** 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		Eval	Analysis Date	Holding Times		Eval	
				Rec	Actual			Rec	Actual		
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID											
Glass vial (sodium bisulfate) MW2401	E581.F1	21-May-2024	23-May-2024	14 days	2 days	✔	23-May-2024	14 days	2 days	✔	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID											
Glass vial (sodium bisulfate) MW2402	E581.F1	21-May-2024	23-May-2024	14 days	2 days	✔	23-May-2024	14 days	2 days	✔	
Hydrocarbons : CCME PHC - F1 by Headspace GC-FID											
Glass vial (sodium bisulfate) MW2403	E581.F1	21-May-2024	23-May-2024	14 days	2 days	✔	23-May-2024	14 days	2 days	✔	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID											
Amber glass/Teflon lined cap (sodium bisulfate) MW2401	E601	21-May-2024	23-May-2024	14 days	2 days	✔	23-May-2024	40 days	0 days	✔	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID											
Amber glass/Teflon lined cap (sodium bisulfate) MW2402	E601	21-May-2024	23-May-2024	14 days	2 days	✔	23-May-2024	40 days	0 days	✔	
Hydrocarbons : CCME PHCs - F2-F4 by GC-FID											
Amber glass/Teflon lined cap (sodium bisulfate) MW2403	E601	21-May-2024	23-May-2024	14 days	2 days	✔	23-May-2024	40 days	0 days	✔	
Volatile Organic Compounds : BTEX by Headspace GC-MS											
Glass vial (sodium bisulfate) MW2401	E611A	21-May-2024	23-May-2024	14 days	2 days	✔	23-May-2024	14 days	2 days	✔	



Matrix: **Water** 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		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass vial (sodium bisulfate) MW2402	E611A	21-May-2024	23-May-2024	14 days	2 days	✓	23-May-2024	14 days	2 days	✓
Volatile Organic Compounds : BTEX by Headspace GC-MS										
Glass vial (sodium bisulfate) MW2403	E611A	21-May-2024	23-May-2024	14 days	2 days	✓	23-May-2024	14 days	2 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: **Water** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
BTEX by Headspace GC-MS	E611A	1455035	1	19	5.2	5.0	✔
CCME PHC - F1 by Headspace GC-FID	E581.F1	1455036	1	10	10.0	5.0	✔
Laboratory Control Samples (LCS)							
BTEX by Headspace GC-MS	E611A	1455035	1	19	5.2	5.0	✔
CCME PHC - F1 by Headspace GC-FID	E581.F1	1455036	1	10	10.0	5.0	✔
CCME PHCs - F2-F4 by GC-FID	E601	1455053	1	18	5.5	5.0	✔
Method Blanks (MB)							
BTEX by Headspace GC-MS	E611A	1455035	1	19	5.2	5.0	✔
CCME PHC - F1 by Headspace GC-FID	E581.F1	1455036	1	10	10.0	5.0	✔
CCME PHCs - F2-F4 by GC-FID	E601	1455053	1	18	5.5	5.0	✔
Matrix Spikes (MS)							
BTEX by Headspace GC-MS	E611A	1455035	1	19	5.2	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
CCME PHC - F1 by Headspace GC-FID	E581.F1 ALS Environmental - Edmonton	Water	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. 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 ALS Environmental - Edmonton	Water	CCME PHC in Soil - Tier 1	Sample extracts are analyzed 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. 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 - Edmonton	Water	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.
F1-BTEX	EC580 ALS Environmental - Edmonton	Water	CCME PHC in Soil - Tier 1	F1-BTEX is calculated as follows: F1-BTEX = F1 (C6-C10) minus benzene, toluene, ethylbenzene and xylenes (BTEX).
Sum F1 to F4 (C6-C50)	EC581 ALS Environmental - Edmonton	Water	CCME PHC in Soil - Tier 1	Hydrocarbons, total (C6-C50) is the sum of CCME Fractions F1(C6-C10), F2(C10-C16), F3(C16-C34), and F4(C34-C50). F4G-sg is not used within this calculation due to overlap with other fractions.

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
VOCs Preparation for Headspace Analysis	EP581 ALS Environmental - Edmonton	Water	EPA 5021A (mod)	Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system.
PHCs and PAHs Hexane Extraction	EP601 ALS Environmental - Edmonton	Water	EPA 3511 (mod)	Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.

QUALITY CONTROL REPORT

Work Order	: EO2403790	Page	: 1 of 4
Amendment	: 1		
Client	: Omni-McCann Inc.	Laboratory	: ALS Environmental - Edmonton
Contact	: Meaghan Blackburn	Account Manager	: Kieran Tordoff
Address	: 2404 96 Street Edmonton AB Canada T6N 1J8	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 780-435-1154	Telephone	: +1 780 413 5227
Project	: 0199-0101	Date Samples Received	: 22-May-2024 11:38
PO	: 0199-0101	Date Analysis Commenced	: 23-May-2024
C-O-C number	: 20-902181	Issue Date	: 24-Jun-2024 11:07
Sampler	: ---		
Site	: ---		
Quote number	: Edmonton General - Water - 2024 Rates		
No. of samples received	: 3		
No. of samples analysed	: 3		

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
- 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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kari Mulroy	Lab Supervisor - Environmental	Edmonton Organics, Edmonton, Alberta
Ping Yeung	Team Leader - Inorganics	Edmonton Organics, Edmonton, Alberta
Yan Zhang	Team Leader - Organics	Edmonton Organics, Edmonton, Alberta



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: **Water**

					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
Volatile Organic Compounds (QC Lot: 1455035)											
EO2403778-004	Anonymous	Benzene	71-43-2	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Ethylbenzene	100-41-4	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Toluene	108-88-3	E611A	0.50	µg/L	<0.50	<0.50	0	Diff <2x LOR	----
		Xylene, m+p-	179601-23-1	E611A	0.40	µg/L	<0.40	<0.40	0	Diff <2x LOR	----
		Xylene, o-	95-47-6	E611A	0.30	µg/L	<0.30	<0.30	0	Diff <2x LOR	----
Hydrocarbons (QC Lot: 1455036)											
EO2403790-001	MW2401	F1 (C6-C10)	----	E581.F1	100	µg/L	<100	<100	0	Diff <2x LOR	----



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: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Volatile Organic Compounds (QCLot: 1455035)						
Benzene	71-43-2	E611A	0.5	µg/L	<0.50	----
BTEX, total	----	E611A	1	µg/L	<1.0	----
Ethylbenzene	100-41-4	E611A	0.5	µg/L	<0.50	----
Toluene	108-88-3	E611A	0.5	µg/L	<0.50	----
Xylene, m+p-	179601-23-1	E611A	0.4	µg/L	<0.40	----
Xylene, o-	95-47-6	E611A	0.3	µg/L	<0.30	----
Hydrocarbons (QCLot: 1455036)						
F1 (C6-C10)	----	E581.F1	100	µg/L	<100	----
Hydrocarbons (QCLot: 1455053)						
F2 (C10-C16)	----	E601	100	µg/L	<100	----
F3 (C16-C34)	----	E601	250	µg/L	<250	----
F4 (C34-C50)	----	E601	250	µg/L	<250	----



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: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Volatile Organic Compounds (QCLot: 1455035)									
Benzene	71-43-2	E611A	0.5	µg/L	100 µg/L	87.4	70.0	130	----
Ethylbenzene	100-41-4	E611A	0.5	µg/L	100 µg/L	98.8	70.0	130	----
Toluene	108-88-3	E611A	0.5	µg/L	100 µg/L	86.0	70.0	130	----
Xylene, m+p-	179601-23-1	E611A	0.4	µg/L	200 µg/L	112	70.0	130	----
Xylene, o-	95-47-6	E611A	0.3	µg/L	100 µg/L	101	70.0	130	----
Hydrocarbons (QCLot: 1455036)									
F1 (C6-C10)	----	E581.F1	100	µg/L	2750 µg/L	102	70.0	130	----
Hydrocarbons (QCLot: 1455053)									
F2 (C10-C16)	----	E601	100	µg/L	3820 µg/L	107	70.0	130	----
F3 (C16-C34)	----	E601	250	µg/L	7380 µg/L	105	70.0	130	----
F4 (C34-C50)	----	E601	250	µg/L	5160 µg/L	111	70.0	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: **Water**

					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: 1455035)										
EO2403778-005	Anonymous	Benzene	71-43-2	E611A	100 µg/L	100 µg/L	100	50.0	140	----
		Ethylbenzene	100-41-4	E611A	98.8 µg/L	100 µg/L	98.8	50.0	140	----
		Toluene	108-88-3	E611A	87.0 µg/L	100 µg/L	87.0	50.0	140	----
		Xylene, m+p-	179601-23-1	E611A	199 µg/L	200 µg/L	99.3	50.0	140	----
		Xylene, o-	95-47-6	E611A	104 µg/L	100 µg/L	104	50.0	140	----