District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2230739779
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party - Delek Logistics	OGRID
Contact Name – Cassie Whitefield	Contact Telephone – 870-310-9078
Contact email – cassie.whitefield@deleklogistics.com	Incident # *(assigned by OCD)*
Contact mailing address	

Location of Release Source

Latitude 32.526 Longitude -103.523
(NAD 83 in decimal degrees to 5 decimal places)

Site Name – BC Berry	Site Type – Well Pad and Tank Battery
Date Release Discovered – 10-21-2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
I	3 5	20 S	34 E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* *Delek Logistics*)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) - 10	Volume Recovered (bbls) - 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release – Broken weld on valve		

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2230739779
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? Initially, it was believed to be a major release but during response activities it was determined to be a minor one.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Cassie Whitefield notified Mike Bratcher (OCD) by phone on September 14, 2022 and left a voicemail.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Cassie Whitefiled Title: Sr. Environmental, Health, and Safety Manager, MPH

Signature: DocuSigned by: Cassie Whitefield A1C5C9E49C094E9... Date: 11/3/2022

email: cassie.whitefield@deleklogistics.com Telephone: – 870-310-9078

OCD Only

Received by: Jocelyn Harion Date: 11/03/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2230739779
District RP	
Facility ID	
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☑ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☑ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☑ Data table of soil contaminant concentration data
- ☑ Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☑ Photographs including date and GIS information
- ☑ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2230739779
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Cassie Whitefield

Title: Sr. Environmental, Health, and Safety Manager

Signature: DocuSigned by: Cassie Whitefield A1C5C9E49C094E9...

Date: 6/1/2023

email: cassie.whitefield@deleklogistics.com

Telephone: 870-310-9078

OCD Only

Received by: Shelly Wells

Date: 7/24/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2230739779
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☑ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☑ Extents of contamination must be fully delineated.

☑ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Cassie Whitefield Title: Sr. Environmental, Health, and Safety Manager

Signature: DocuSigned by: Cassie Whitefield A1C5C9E49C094E9... Date: 6/1/2023

email: cassie.whitefield@deleklogistics.com Telephone: 870-310-9078

OCD Only

Received by: Shelly Wells Date: 7/24/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2230739779
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☑ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☑ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Cassie Whitefield Title: Sr. Environmental, Health, and Safety Manager

Signature: DocuSigned by: Cassie Whitefield A1C5C9E49C094E9... Date: 6/1/2023

email: cassie.whitefield@deleklogistics.com Telephone: 870-310-9078

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Received by OCD: 7/24/2023 10:28:31 AM

2135 S. Loop 250 W
Midland, Texas 79703
United States
www.ghd.com

Our ref: 12597046-NMOCD-1

June 21, 2023

New Mexico Oil Conservation Division
District 1
1625 N. French Drive
Hobbs, NM 88240

Site Characterization and Closure Report
BC Berry
3 Bear Energy-Cottonwood, LLC
Incident ID: nAPP2230739779
I-35-20S-34E, Lea County, New Mexico

1. Introduction

GHD Services Inc. (GHD), on behalf of 3 Bear Energy-Cottonwood, LLC, which is owned and operated by Delek Logistics Partners, LP (Delek), submits this Site Characterization and Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 1 Office. This Report provides documentation of characterization, delineation, sampling, remedial activities, and analyses in the affected area at the BC Berry Site (Site). Delek is the operator of the pad location and associated equipment surrounding the affected area. The Site is located in Unit Letter I Section 35 of Township 20 South and Range 34 East in Lea County, New Mexico. The initial C141 reported the locations to be in Section 36; however, the correct Section is 35. The C141 has been updated to accurately reflect this change. The GPS coordinates for the Site are 32.526º N Latitude and 103.523º W Longitude. The surface owner of the pad where the release occurred is Delek. Figure 1 depicts the Site location. The Site and other details are depicted on Figure 2.

2. Background Information

The release falls under the jurisdiction of the NMOCD District I Office in Hobbs, New Mexico. Cassie Whitefield, Senior Environmental Health and Safety Manager with Delek, notified Mike Bratcher (NMOCD) via phone call on September 14, 2022, and left a voicemail. A Form C-141 was submitted to the NMOCD on November 3, 2022, and stated that approximately 10 barrels (bbls) of produced water was released to the environment on October 21, 2022. None of the released produced water was recovered. Reportedly, the release occurred as the result of a broken weld on a valve. Upon release discovery, Delek field personnel and environmental staff stopped the source of the release, secured and contained the release area, and removed and managed all free-flowing product and impacted soils through excavation. Subsequently, Delek filed a Form C-141 for this release location. The NMOCD assigned the release with Incident Number nAPP2230739779. The Release Notification, Site Assessment/Characterization, and Closure portions of Form C-141 are attached to the front of this report.

Released to Imaging: 1/31/2024 4:48:02 PM

3. Site Characterization and Closure Criteria

GHD characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i), the Site is located within an area of low karst potential. A water well located approximately 0.23 miles from the Site, which is within a 0.5-mile radius of the Site has a recorded depth to water (DTW) of 733 feet. No other receptors (i.e., water wells, playas, wetlands, waterways, lakebeds, or ordinance boundaries) were located within each regulatory specified distance and/or boundary from the Site. The Site is not located in a mapped floodplain. Documentation of the Site characterization documentation and receptor review are included as Attachment A. Based on the results of the site characterization, the closure criteria are listed below:

General Site Characterization and Groundwater Information:

Table 1 General Site Characterization and Groundwater Information

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	733

Table 2 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Regulatory Standard	Chloride (mg/kg)	TPH (GRO+DRO+MRO) (mg/kg)	TPH (GRO+DRO) (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 feet)	600	100	---	50	10
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	20,000	2,500	1,000	50	10

4. Soil Remediation Activities

4.1 Initial Remedial Excavation

On October 18, 2022, Delek's contractor Frontier Development, Inc. (Frontier) fixed the broken weld that caused the release. Subsequently, Frontier initiated soil excavation activities to remove visibly stained soil and transported it offsite for disposal. Following the removal of visibly stained soil, Delek contracted GHD to assess the excavated area. On October 21, 2022, GHD conducted field screening of the excavation to determine if soil samples should be submitted for laboratory analyses. Based on the field screening activities, additional remedial excavation was warranted.

4.2 Initial Confirmation Soil Sampling

Under general oversight of GHD, Frontier conducted additional excavation activities under general oversight of GHD. On November 8, 2022, GHD collected twenty-four (24) bottom hole (BH-1 through BH-24) and nine (9) sidewall (SW-1 through SW-9) 5-point composite confirmation samples. Eurofins Environmental Testing America (Eurofins) in Midland, Texas analyzed the soil samples for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA SW846 Method 8021B, total petroleum hydrocarbons (TPH) by EPA SW846 Method 8015B Modified, and chloride by EPA Methods For Chemical Analysis of Water and Wastes (MCAWW) Method 300.0.

Analytical results indicated none of the confirmation soil samples exhibited benzene or BTEX concentrations above the NMAC Table I Closure Criteria. Two (2) of the twenty-four (24) bore hole composite confirmation samples exhibited TPH concentrations above the NMAC Table I Closure Criteria: BH01 and BH24. Eleven (11) of the twenty-four (24) bottom hole composite confirmation samples exhibited chloride concentrations above NMAC Table I Closure Criteria: BH01, BH02, BH05 through BH08, BH11, BH12, BH15, BH23, and BH24. Seven (7) of the nine (9) side wall composite confirmation samples exhibited chloride concentrations above NMAC Table I Closure Criteria: SW01 through SW03 and SW06 through SW09. Sample locations are presented on Figure 2. Analytical results are summarized in Table 1. The laboratory analytical report is included as Attachment B.

4.3 Additional Excavation and Confirmation Soil Sampling

Due to initial confirmation samples exhibiting TPH and/or chloride concentrations above Table I Closure Criteria, GHD and Frontier mobilized to the Site on December 15, 2022, to further excavate affected areas and collect additional samples. Excavation and sampling activities continued through April 14, 2023. Depths range from approximately three (3) to five (5) feet below ground surface (bgs). Between December 15, 2022 and April 14, 2023, a total of forty-seven (47) bottom hole and twenty-three (23) sidewall composite confirmation samples were collected. Samples collected on February 22, 2023, were submitted to Eurofins Environmental Testing America (Eurofins), located in Carlsbad, New Mexico. All other samples collected from other dates were submitted to Eurofins Environmental Testing America (Eurofins), located in Midland, Texas. Samples were analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA Methods For Chemical Analysis of Water and Wastes (MCAWW) Method 300.0.

The area around BH01 was deepened from two (2) to three (3) feet bgs and resampled (BH1A). The area around BH02 was deepened from one (1) to four (4) feet bgs and resampled (BH02A). The area around BH05 was scraped and resampled (BH05A). The area around BH06 was deepened from two (2) to four (4) feet bgs and resampled (BH06A). The area around BH07 was deepened from one (1) to three (3) feet bgs and resampled (BH07A). The areas around BH08 and BH15 were deepened from three and one-half (3.5) to four (4) feet bgs and resampled as BH08A and BH15A, respectively. The area around BH11 was deepened from one and one-half (1.5) to three (3) feet bgs and resampled (BH11A). The areas around BH12 and BH23 were deepened from three (3) to four (4) feet bgs and resampled as BH12A and BH23A, respectively. Sidewalls SW01 through SW03, SW06, and SW08 through SW10 were excavated further and resampled as SW01A through SW03A, SW06A, and SW08A through SW10A, respectively. Two additional bottom hole samples were collected at one-half foot bgs (BH-25 and BH-26). The area boxed in by borehole sample locations BH24, BH25, and BH-26 were not excavated due to the presence of electrical and flow lines. Remediation of the area boxed in by borehole sample locations BH24, BH25, and BH-26 would be requested for deferral until Site decommissioning.

Analytical results for samples collected on December 15, 2022, indicated two (2) bottom hole: BH1A and BH7A and two (2) sidewalls: SW02A and SW06A composite confirmation samples exhibited chloride concentrations over Table I Closure Criteria. Sample BH1A also exhibited a TPH concentration over Table I Closure Criteria (surface to 4 feet below grade).

GHD and Frontier returned to the Site on February 2, 2023, to further excavate affected areas and resample. The area around BH1A was deepened from three (3) to five (5) feet bgs and resampled as BH1B. The area around BH7A was deepened from three (3) to five (5) feet bgs and resampled as BH7B. The area around BH24 was deepened from two (2) to four (4) feet bgs and resampled as BH24B. Sidewall SW07 was excavated further and resampled as SW7E. Sidewall SW02A was not excavated further due to the presence of an adjoining oil and gas operational equipment. Remediation of the SW02A area would be requested for deferral until Site decommissioning.

Analytical results for samples collected on February 2, 2023, indicated one (1) bottom hole: BH1B and one (1) sidewall: SW7E composite confirmation samples exhibited chloride concentrations over Table I Closure Criteria (surface to 4 feet below grade). Sample BH1A also exhibited a TPH concentration over Table I Closure Criteria (surface to 4 feet below grade).

GHD and Frontier returned to the Site on February 22, 2023, to further excavate affected areas and resample. The area around BH7A was deepened from three (3) to five (5) feet bgs and resampled (BH7B). Sidewalls SW06A and SW7E were excavated further and resampled as SW06B and SW07F, respectively.

Analytical results for samples collected on February 22, 2023, indicated two (2) sidewall composite confirmation samples: SW06B and SW07F exhibited chloride concentrations over Table I Closure Criteria (surface to 4 feet below grade). Sidewalls SW06B and SW07F were not excavated further due to the presence of an adjoining oil and gas operational equipment. Remediation of the SW06B and SW07F areas would be requested for deferral until Site decommissioning.

GHD returned to the Site on April 14, 2023, to collect additional samples. GHD collected eight (8) bottom hole (BH27 through BH34) and four (4) additional sidewall (SW11 through SW14) composite confirmation samples.

Analytical results for samples collected on April 14, 2023, indicated one (1) sidewall composite confirmation sample SW12 exhibited a chloride concentration over Table I Closure Criteria (surface to 4 feet below grade). Sidewall SW12 not excavated further due to the presence of an adjoining oil and gas operational equipment. Remediation of the SW12 area would be requested for deferral until Site decommissioning.

Sample locations are presented on Figure 2 and analytical data is summarized on Table 1. Laboratory Analytical Reports are included as Attachment B. In accordance with 19.15.29.12 D(1)(a) NMAC, sampling notifications are included as Attachment D.

4.4 Waste Management and Site Restoration Activities

Waste management activities were performed in coordination with Delek directives. Frontier obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (NM1-006), R360 Halfway Facility located at 6601 Hobbs Hwy US 62/180 Mile Marker 66, Carlsbad, New Mexico 88220. Approximately 1,060 cubic yards of impacted soils were removed from the remedial excavation and disposed of. The excavation will be backfilled with non-impacted soil imported to the Site from a locally sourced caliche and topsoil pit and compacted with heavy tracked equipment. The approved C-138 and waste manifests are available upon request but are not attached due to the size of the file. A summary of soil disposal information is included in Table 2. A photographic log is included as Attachment C. Once backfilling is complete, GHD will prepare and submit an addendum to this report with photos depicting the backfilled excavation.

5. nAPP2230739779 Deferral and Closure Request

Site characterization, soil delineation, and remediation activities for Incident nAPP2230739779 have been performed in accordance with applicable OCD guidance and regulations. GHD, on behalf of Delek, requests

deferral of the remediation of chloride impacted soils immediately surrounding the tank battery represented by soil samples BH24, BH25, BH26, SW02A, SW06B, SW07F, and SW12 due to equipment structural stability concerns. These areas will be remediated when the oil and gas production equipment is removed from the Site during Site decommissioning. Based upon supporting documentation provided in this report, GHD, on behalf of Delek, respectfully requests closure of nAPP2230739779.

If you have any questions or comments concerning this Site Closure Report, please do not hesitate to contact our Midland office at (432) 686-0086.

Regards,

J.T. Murrey
Senior Project Manager

+1 423 203-8664
jt.murrey@ghd.com

Stephen Asante-Ansong
Project Manager

+1 713 380-7616
stephen.asante-ansong@ghd.com

JTM/mss/1

Encl. Table 1 – Summary of Soil Analytical Data
Table 2 – Daily Soil Disposal Summary
Figure 1 – Site Location Map
Figure 2 – Confirmation Sampling Locations Map
Attachment A – Site Characterization/Assessment Documentation
Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment C – Photographic Log
Attachment D – Sampling Notifications

Copy to: Cassie Whitefield, Delek

Table 1

Summary of Soil Analytical Results
3 Bear Energy-Cottonwood, LLC
Lea County, New Mexico

			Chemical Name:	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene	Xylenes (total)	Total BTEX	TPH (C6-C10) GRO	TPH (>C10-C28) DRO	TPH (>C28-C36) ORO	Total TPH	Chloride
NMAC 19.15.29.12 Table 1 Closure Criteria (0-4 feet):				10						50				100	600
NMAC 19.15.29.12 Table 1 Closure Criteria (GW >100 feet):				10						50	1,000			2,500	20,000
Location	Sample ID	Date	Depth												
Bottom Hole Confirmation Samples															
~~BH01~~	~~BH01~~	~~11/08/2022~~	~~2- ft BGS~~	~~<0.00200~~	~~<0.00200~~	~~<0.00200~~	~~<0.00399~~	~~<0.00200~~	~~<0.00399~~	~~<0.00399~~	~~<49.9~~	~~202~~	~~<49.9~~	~~202~~	~~8490~~
~~BH01~~	~~BH1A~~	~~12/15/2022~~	~~3- ft BGS~~	~~<0.00201~~	~~<0.00201~~	~~<0.00201~~	~~<0.00402~~	~~<0.00201~~	~~<0.00402~~	~~<0.00402~~	~~25.6 J~~	~~110~~	~~20.9 J~~	~~157~~	~~3420~~
BH01	BH-1B	02/02/2023	5- ft BGS	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.9	71.9	<49.9	71.9	3710
~~BH02~~	~~BH02~~	~~11/08/2022~~	~~1- ft BGS~~	~~<0.00200~~	~~<0.00200~~	~~<0.00200~~	~~<0.00401~~	~~<0.00200~~	~~<0.00401~~	~~<0.00401~~	~~<50.0~~	~~79.8~~	~~<50.0~~	~~79.8~~	~~3450~~
BH02	BH02A	12/15/2022	4- ft BGS	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00397	<0.00397	27.9 J	148	22.2 J	198	2260
BH03	BH03	11/08/2022	4- ft BGS	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50.0	70.5	<50.0	70.5	1240
BH04	BH04	11/08/2022	4- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	3040
~~BH05~~	~~BH05~~	~~11/08/2022~~	~~3- ft BGS~~	~~<0.00200~~	~~<0.00200~~	~~<0.00200~~	~~<0.00401~~	~~<0.00200~~	~~<0.00401~~	~~<0.00401~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~5410~~
BH05	BH05A	12/15/2022	3- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	32.5 J	18.1 J	<49.9	50.6	359
~~BH06~~	~~BH06~~	~~11/08/2022~~	~~2- ft BGS~~	~~<0.00202~~	~~<0.00202~~	~~<0.00202~~	~~<0.00403~~	~~<0.00202~~	~~<0.00403~~	~~<0.00403~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~787~~
BH06	BH06A	12/15/2022	4- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	30.9 J	<49.9	<49.9	<49.9	149
~~BH07~~	~~BH07~~	~~11/08/2022~~	~~1- ft BGS~~	~~<0.00199~~	~~<0.00199~~	~~<0.00199~~	~~<0.00398~~	~~<0.00199~~	~~<0.00398~~	~~<0.00398~~	~~<50.0~~	~~86.5~~	~~<50.0~~	~~86.5~~	~~4200~~
~~BH07~~	~~BH07A~~	~~12/15/2022~~	~~3- ft BGS~~	~~<0.00201~~	~~<0.00201~~	~~<0.00201~~	~~<0.00402~~	~~<0.00201~~	~~<0.00402~~	~~<0.00402~~	~~20.4 J~~	~~35.4 J~~	~~<50.0~~	~~55.8~~	~~990~~
BH07	BH-07B	02/22/2023	5- ft BGS	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	189
~~BH08~~	~~BH08~~	~~11/08/2022~~	~~3.5- ft BGS~~	~~<0.00199~~	~~<0.00199~~	~~<0.00199~~	~~<0.00398~~	~~<0.00199~~	~~<0.00398~~	~~<0.00398~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~677~~
BH08	BH08A	12/15/2022	4- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	31.7 J	<49.9	<49.9	<49.9	166
BH09	BH09	11/08/2022	3.5- ft BGS	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	441
BH10	BH10	11/08/2022	2- ft BGS	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	486
~~BH11~~	~~BH11~~	~~11/08/2022~~	~~1.5- ft BGS~~	~~<0.00200~~	~~<0.00200~~	~~<0.00200~~	~~<0.00399~~	~~<0.00200~~	~~<0.00399~~	~~<0.00399~~	~~<49.8~~	~~69.3~~	~~<49.8~~	~~69.3~~	~~3300~~
BH11	BH11A	12/15/2022	3- ft BGS	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	<0.00396	<0.00396	19.7 J	15.3 J	<50.0	<50.0	192
~~BH12~~	~~BH12~~	~~11/08/2022~~	~~3- ft BGS~~	~~<0.00200~~	~~<0.00200~~	~~<0.00200~~	~~<0.00401~~	~~<0.00200~~	~~<0.00401~~	~~<0.00401~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~896~~
BH12	BH12A	12/15/2022	4- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	18.7 J	<50.0	<50.0	<50.0	205
BH13	BH13	11/08/2022	3- ft BGS	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	312
BH14	BH14	11/08/2022	3- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	529
~~BH15~~	~~BH15~~	~~11/08/2022~~	~~3.5- ft BGS~~	~~<0.00200~~	~~<0.00200~~	~~<0.00200~~	~~<0.00399~~	~~<0.00200~~	~~<0.00399~~	~~<0.00399~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~1150~~
BH15	BH15A	12/15/2022	4- ft BGS	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	31.0 J	16.3 J	<49.9	<49.9	382
BH16	BH16	11/08/2022	3.5- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	569
BH17	BH17	11/08/2022	3.5- ft BGS	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	288
BH18	BH18	11/08/2022	3- ft BGS	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	445
BH19	BH19	11/08/2022	3- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	365
BH20	BH20	11/08/2022	3- ft BGS	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	342
BH21	BH21	11/08/2022	3- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	531
BH22	BH22	11/08/2022	3- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	525
~~BH23~~	~~BH23~~	~~11/08/2022~~	~~3- ft BGS~~	~~<0.00200~~	~~<0.00200~~	~~<0.00200~~	~~<0.00399~~	~~<0.00200~~	~~<0.00399~~	~~<0.00399~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~866~~
BH23	BH23A	12/15/2022	4- ft BGS	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	33.1 J	<49.9	<49.9	<49.9	318
BH24	BH24	11/08/2022	0-2- ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	110	88.9	199	1990
BH24	BH24B	02/02/2023	4- ft BGS	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	<0.00404	<0.00404	<50.0	81.7	<50.0	81.7	239
BH25	BH25	12/15/2022	0-0.5 ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	40.1 J	22.4 J	<49.9	62.5	29.4
BH26	BH26	12/15/2022	0-0.5 ft BGS	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	<0.00401	<0.00401	37.5 J	<49.9	<49.9	<49.9	147
BH27	BH27	04/14/2023	4- ft BGS	<0.00202	0.00330	0.000666 J	0.00115 J	0.000574 J	0.00172 J	0.00569	28.0 J	64.8	41.6 JB	134	1590
BH28	BH28	04/14/2023	4- ft BGS	0.00172 J	0.00350	0.000828 J	<0.00398	0.000877 J	<0.00398	0.00693	24.8 J	317	287	629	1670
BH29	BH29	04/14/2023	4- ft BGS	0.000917 J	0.00166 J	<0.00199	<0.00398	0.000365 J	<0.00398	0.00294 J	39.0 J	43.1 J	22.1 JB	104	983
BH30	BH30	04/14/2023	4- ft BGS	0.00190 J	0.00546	0.000731 J	0.00126 J	0.000534 J	0.00179 J	0.00989	27.1 J	24.8 J	<50.0	51.9	1330
BH31	BH31	04/14/2023	4- ft BGS	0.00139 J	0.00316	0.000731 J	0.00118 J	0.000638 J	0.00182 J	0.00710	38.7 J	29.2 J	<50.0	67.9	2040
BH32	BH32	04/14/2023	4- ft BGS	0.00147 J	0.00431	0.000571 J	<0.00402	0.000679 J	<0.00402	0.00703	26.9 J	105	79.7	212	3600
BH33	BH33	04/14/2023	4- ft BGS	0.00143 J	0.00437	0.000781 J	0.00117 J	0.000512 J	0.00168 J	0.00826	38.8 J	46.4 J	26.6 JB	112	1090
BH34	BH34	04/14/2023	4- ft BGS	0.00229	0.00569	0.00107 J	0.00127 J	0.000653 J	0.00192 J	0.0110	25.8 J	120	88.0	234	4630

Table 1

Summary of Soil Analytical Results
3 Bear Energy-Cottonwood, LLC
Lea County, New Mexico

			Chemical Name:	Benzene	Toluene	Ethylbenzene	m&p-Xylenes	o-Xylene	Xylenes (total)	Total BTEX	TPH (C6-C10) GRO	TPH (>C10-C28) DRO	TPH (>C28-C36) ORO	Total TPH	Chloride
NMAC 19.15.29.12 Table 1 Closure Criteria (0-4 feet):				**10**						**50**				**100**	**600**
NMAC 19.15.29.12 Table 1 Closure Criteria (GW >100 feet):				**10**						**50**	**1,000**			**2,500**	**20,000**
Sidewall Confirmation Samples															
~~SW01~~	~~SW01~~	~~11/08/2022~~	~~0-4 ft BGS~~	~~<0.00201~~	~~<0.00201~~	~~<0.00201~~	~~<0.00402~~	~~<0.00201~~	~~<0.00402~~	~~<0.00402~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**774**~~
SW01	SW01A	12/15/2022	0-4 ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	**33.5 J**	<49.9	<49.9	<49.9	**206**
~~SW02~~	~~SW02~~	~~11/08/2022~~	~~0-4 ft BGS~~	~~<0.00199~~	~~<0.00199~~	~~<0.00199~~	~~<0.00398~~	~~<0.00199~~	~~<0.00398~~	~~<0.00398~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**7750**~~
SW02	SW02A	12/15/2022	0-4 ft BGS	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	**31.5 J**	**22.5 J**	<50.0	**54.0**	**2660**
~~SW03~~	~~SW03~~	~~11/08/2022~~	~~0-3.5 ft BGS~~	~~<0.00199~~	~~<0.00199~~	~~<0.00199~~	~~<0.00398~~	~~<0.00199~~	~~<0.00398~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**725**~~
SW03	SW03A	12/15/2022	0-4 ft BGS	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	<0.00403	<0.00403	**49.7 J**	<49.9	<49.9	<49.9	**492**
SW04	SW04	11/08/2022	0-3.5 ft BGS	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	**519**
SW05	SW05	11/08/2022	0-3.5 ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	**285**
~~SW06~~	~~SW06~~	~~11/08/2022~~	~~0-3.5 ft BGS~~	~~<0.00199~~	~~<0.00199~~	~~<0.00199~~	~~<0.00398~~	~~<0.00199~~	~~<0.00398~~	~~<0.00398~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1160**~~
~~SW06~~	~~SW06A~~	~~12/15/2022~~	~~0-4 ft BGS~~	~~<0.00198~~	~~<0.00198~~	~~<0.00198~~	~~<0.00396~~	~~<0.00198~~	~~<0.00396~~	~~<0.00396~~	~~**28.9 J**~~	~~**21.2 J**~~	~~<49.9~~	~~**50.1**~~	~~**1230**~~
SW06	SW-06B	02/22/2023	0-4 ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**1950**
~~SW07~~	~~SW07~~	~~11/08/2022~~	~~0-1.5 ft BGS~~	~~<0.00201~~	~~<0.00201~~	~~<0.00201~~	~~<0.00402~~	~~<0.00201~~	~~<0.00402~~	~~<0.00402~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**411**~~
~~SW07~~	~~SW-7E~~	~~02/02/2023~~	~~0-4 ft BGS~~	~~<0.00199~~	~~<0.00199~~	~~<0.00199~~	~~<0.00398~~	~~<0.00199~~	~~<0.00398~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**1200**~~
SW07	SW-07F	02/22/2023	0-4 ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	**1910**
~~SW08~~	~~SW08~~	~~11/08/2022~~	~~0-3 ft BGS~~	~~<0.00199~~	~~<0.00199~~	~~<0.00199~~	~~<0.00398~~	~~<0.00199~~	~~<0.00398~~	~~<0.00398~~	~~<50.0~~	~~**81.2**~~	~~<50.0~~	~~**81.2**~~	~~**6400**~~
SW08	SW08A	12/15/2022	0-4 ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	0.000592 J	<0.00398	<0.00398	**23.9 J**	**15.4 J**	<49.9	<49.9	**587**
~~SW09~~	~~SW09~~	~~11/08/2022~~	~~0-3 ft BGS~~	~~<0.00199~~	~~<0.00199~~	~~<0.00199~~	~~<0.00398~~	~~<0.00199~~	~~<0.00398~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**6340**~~
SW09	SW09A	12/15/2022	0-4 ft BGS	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	<0.00402	<0.00402	**43.7 J**	**20.4 J**	**15.3 J**	**79.4**	**424**
SW10	SW10A	12/15/2022	0-4 ft BGS	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00398	<0.00398	**23.4 J**	**35.6 J**	**21.4 J**	**80.4**	**187**
SW11	SW11	04/14/2023	0-4 ft BGS	**0.00223**	**0.00610**	**0.000884 J**	**0.00146 J**	**0.000530 J**	**0.00199 J**	**0.0112**	**45.4 J**	**25.5 J**	<49.9	**70.9**	**287**
SW12	SW12	04/14/2023	0-4 ft BGS	<0.00199	**0.00176 J**	<0.00199	<0.00398	<0.00199	<0.00398	**0.00176 J**	**41.6 J**	**21.0 J**	<50.0	**62.6**	**6510**
SW13	SW13	04/14/2023	0-4 ft BGS	**0.00172 J**	**0.00390**	**0.000805 J**	**0.00134 J**	**0.000578 J**	**0.00192 J**	**0.00834**	**39.0 J**	**18.6 J**	<49.8	**57.6**	**408**
SW14	SW14	04/14/2023	0-4 ft BGS	**0.00207**	**0.00581**	**0.000772 J**	**0.00124 J**	**0.000635 J**	**0.00188 J**	**0.0105**	**42.4 J**	**22.5 J**	<50.0	**64.9**	**383**

Notes:
1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B.
5. TPH analyses by EPA Method SW 8015 Mod.

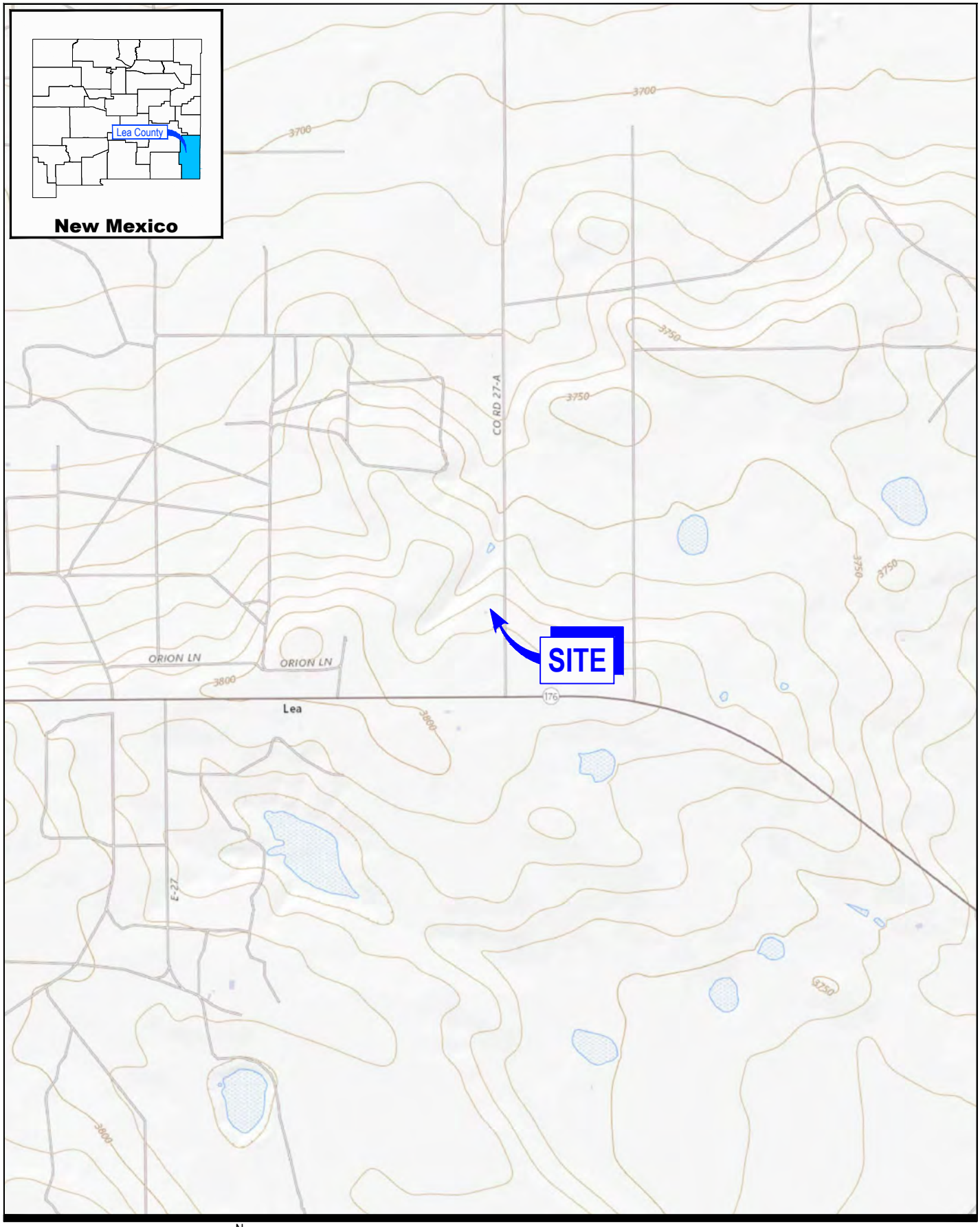
~~BH01~~ Sample Point Excavated.

6. Chlorides by EPA Method 300.0.
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).
9. J - the target analytes was positively identified below the quantitation limit and above the detection limit.
10. B - result detected in associated method blank.
11. BGS - below ground surface.
12. Light green shaded cells are those soil samples representing a deferral of remediation.

Table 2

Daily Soil Disposal Summary
3 Energy-Cottonwood, LLC
Eddy County, New Mexico

Date	Ticket #	Volume (Cubic Yard)
1/18/2023	617808	20
1/18/2023	618192	20
1/18/2023	618193	12
1/18/2023	617807	20
1/18/2023	618194	12
1/18/2023	617809	12
1/18/2023	622274	20
1/18/2023	622264	12
10/19/2022	593699	12
10/19/2022	593686	20
10/19/2022	593688	20
10/19/2022	593694	20
10/19/2022	593698	20
10/19/2022	593695	20
10/19/2022	593693	20
10/19/2022	593700	20
10/19/2022	593696	20
10/19/2022	593697	12
10/20/2022	614823	20
10/20/2022	614824	20
10/20/2022	614822	20
10/20/2022	614830	20
10/20/2022	614827	20
10/20/2022	614825	20
10/20/2022	614826	20
11/3/2022	609278	12
11/3/2022	609275	12
11/3/2022	609276	12
11/3/2022	609277	12
11/3/2022	609279	12
11/3/2022	609280	12
11/3/2022	609267	12
11/3/2022	609281	12
11/3/2022	609268	12
11/3/2022	609253	12
11/3/2022	609254	12
11/3/2022	609216	12
11/3/2022	609217	12
11/3/2022	609214	12
11/3/2022	609806	12
11/3/2022	609807	12
11/3/2022	609215	12
11/3/2022	609261	12
11/3/2022	609259	12
11/3/2022	609258	12
11/3/2022	609257	12
11/3/2022	609260	12
11/3/2022	609262	12
11/3/2022	609808	12
12/14/2022	600619	20
12/14/2022	600621	20
12/14/2022	600618	20
12/14/2022	600620	20
12/14/2022	600624	20
12/14/2022	600622	20
12/14/2022	600623	20
12/14/2022	600625	20
12/14/2022	606907	20
12/14/2022	606906	20
12/14/2022	606904	20
12/14/2022	606905	20
12/14/2022	606901	20
12/14/2022	606902	20
12/14/2022	600626	20
12/14/2022	606903	20
Total		**1060**



0 1000 2000 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

GHD

3 BEAR ENERGY-COTTONWOOD, LLC.
OPERATED BY DELEK LOGISTICS PARTNERS, L.P.
LEA COUNTY, NEW MEXICO
BC BERRY - nAPP2230739779

SITE LOCATION MAP

Project No. **12597046**
Date **May 2023**

FIGURE 1

Filename: N:\US\Corpus Christi\Projects\562\12597046\Digital_Design\ACAD\Figures\RPT001\12597046-GHD-00-00-RPT-EN-D101_DL-001.dwg
Projection: NAD 1983 StatePlane New Mexico East FIPS 3001 (US Feet)

Data Source: USGS 7.5 Minute Quads "Lea and Monument SW, New Mexico"
Lat/Long: 32.5259° North, 103.5230° West

0 8 15 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

GHD

3 BEAR ENERGY-COTTONWOOD, LLC.
OPERATED BY DELEK LOGISTICS PARTNERS, L.P.
LEA COUNTY, NEW MEXICO
BC BERRY - nAPP2230739779

CONFIRMATION SAMPLING:
SOIL ANALYTICAL RESULTS MAP

Project No. **12597046**
Date **May 2023**

FIGURE 2

Filename: N:\US\Corpus Christi\Projects\562\12597046\Digital_Design\ACAD\Figures\RPT001\12597046-GHD-00-00-RPT-EN-D101_DL-001.dwg
Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.5259° North, 103.5230° West

0 8 15 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

GHD

3 BEAR ENERGY-COTTONWOOD, LLC.
OPERATED BY DELEK LOGISTICS PARTNERS, L.P.
LEA COUNTY, NEW MEXICO
BC BERRY - nAPP2230739779

DEFERRED REMEDIATION LOCATIONS MAP

Project No. **12597046**
Date **May 2023**

FIGURE 3

Filename: N:\US\Corpus Christi\Projects\562\12597046\Digital_Design\ACAD\Figures\RPT001\12597046-GHD-00-00-RPT-EN-D101_DL-001.dwg

Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Lat/Long: 32.5259° North, 103.5230° West

Attachments

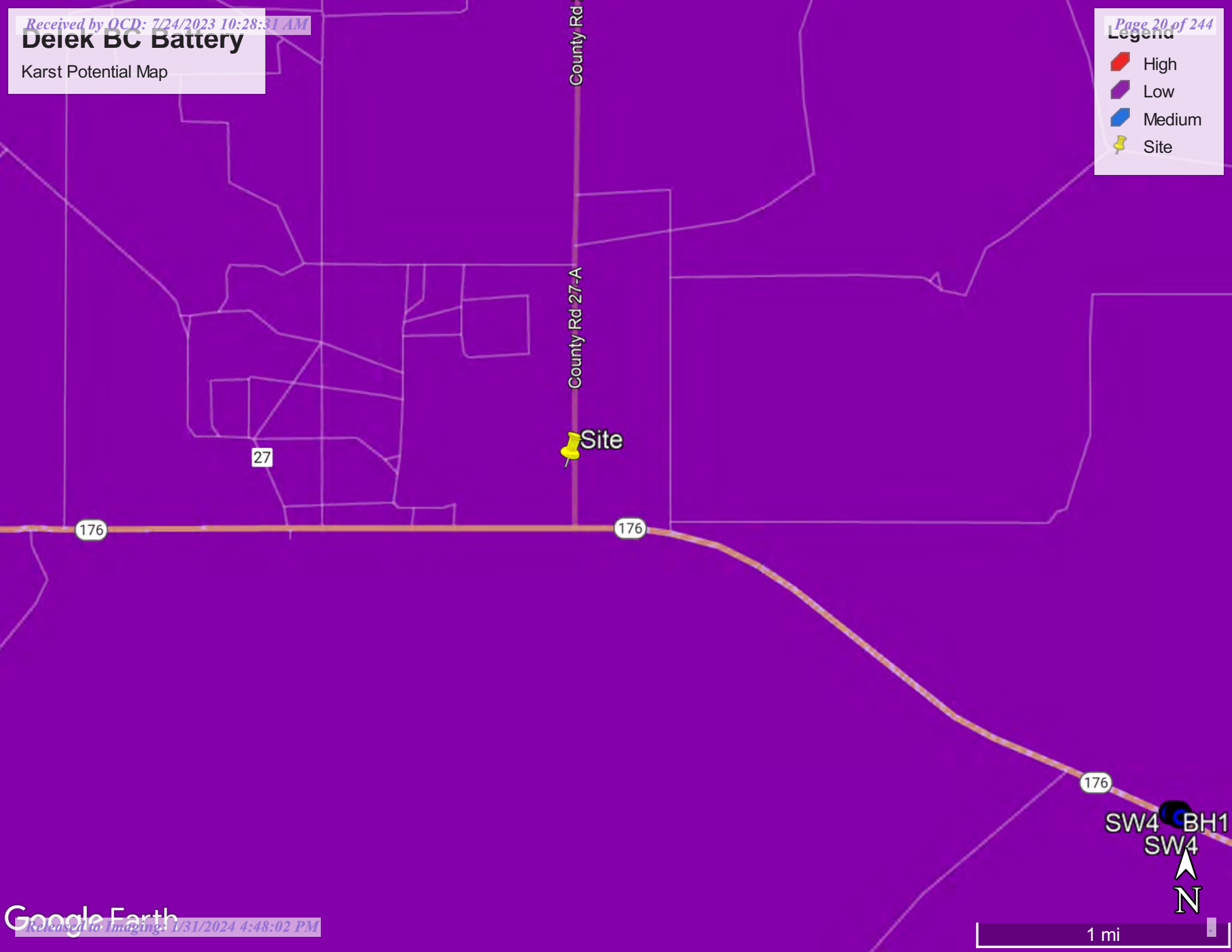
Attachment A

Site Characterization/Assessment Documentation

Received by OCD: 7/24/2023 10:28:31 AM

Delek BC Battery

Karst Potential Map



Released to Imaging: 1/31/2024 4:48:02 PM

OSE POD Locations Map

10/26/2022, 11:47:02 AM

Override 1
GIS WATERS PODs
Active
Pending
Plugged
OSE District Boundary
Water Right Regulations
Closure Area
New Mexico State Trust Lands
Subsurface Estate
Both Estates
SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

Web Generated Map
Map is generated by web users.

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01334 POD1	1	2	4	35	20S	34E	638402	3599879

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE

Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date: 06/21/2014 **Drill Finish Date:** 07/01/2014 **Plug Date:**

Log File Date: 08/09/2016 **PCW Rcv Date:** **Source:** Artesian

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 30 GPM

Casing Size: 9.63 **Depth Well:** 1253 feet **Depth Water:** 733 feet

Water Bearing Stratifications:

Top	Bottom	Description
1014	1135	Sandstone/Gravel/Conglomerate
1135	1235	Sandstone/Gravel/Conglomerate
1235	1258	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
936	1258

Meter Number: 17854 **Meter Make:** SEAMETRICS

Meter Serial Number: 05 212 611 **Meter Multiplier:** 1.0000

Number of Dials: 8 **Meter Type:** Diversion

Unit of Measure: Barrels 42 gal. **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:** Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
12/31/2016	2016	119754	A	ap		0	
01/31/2017	2017	121057	A	ap		16.795	

03/01/2017	2017	128886	A	ap	100.911
04/01/2017	2017	128886	A	ap	0
05/01/2017	2017	128886	A	ap	0
06/01/2017	2017	128886	A	ap	0
06/30/2017	2017	155288	A	ap	340.304
07/31/2017	2017	182078	A	ap	345.305
10/31/2017	2017	232057	A	ap	644.196
11/30/2017	2017	258236	A	ap	337.430
12/29/2017	2017	287266	A	ap	374.177
01/31/2018	2018	314644	A	ap	352.884
02/28/2018	2018	337089	A	ap	289.301
03/30/2018	2018	365297	A	ap	363.582
04/30/2018	2018	378598	A	ap	171.441
06/01/2018	2018	394091	A	ap	199.694
06/29/2018	2018	394282	A	ap	2.462
07/31/2018	2018	394282	A	ap	0
09/01/2018	2018	394282	A	ap	0
10/01/2018	2018	410895	A	ap	214.130
11/01/2018	2018	422143	A	ap	144.979
11/30/2018	2018	463904	A	ap	538.271
03/01/2019	2019	509384	A	ap	586.207
04/01/2019	2019	509384	A	ap	0
05/01/2019	2019	532292	A	ap	295.269
05/31/2019	2019	550539	A	ap	235.192
06/30/2019	2019	550539	A	ap	0
08/01/2019	2019	555838	A	RPT	0.683
09/01/2019	2019	562908	A	RPT	0.911
09/30/2019	2019	601171	A	RPT	4.932
10/31/2019	2019	627576	A	RPT	3.403
11/30/2019	2019	645050	A	RPT	2.252
12/31/2019	2019	667409	A	RPT	2.882
02/01/2020	2020	681056	A	RPT	1.759
03/01/2020	2020	681056	A	RPT	0
04/01/2020	2020	681056	A	RPT	0
05/01/2020	2020	681056	A	RPT	0

06/01/2020	2020	681056	A	RPT	0	
08/01/2020	2020	681056	A	RPT	0	
09/01/2020	2020	681838	A	RPT	0.101	
10/01/2020	2020	681839	A	RPT	0	
10/31/2020	2020	682043	A	WEB	0.026	X
11/30/2020	2020	682043	A	WEB	0	X
12/31/2020	2020	684071	A	WEB	0.261	X
01/31/2021	2021	684668	A	WEB	0.077	X
02/28/2021	2021	684668	A	ad	0	
03/31/2021	2021	685172	A	ad	0.065	
04/30/2021	2021	691734	A	ad	0.846	
05/31/2021	2021	696565	A	ad	0.623	
06/30/2021	2021	710429	A	ad	1.787	
07/31/2021	2021	716153	A	ad	0.738	
08/31/2021	2021	726965	A	ad	1.394	
09/30/2021	2021	726965	A	ad	0	
10/31/2021	2021	753407	A	ad	3.408	
11/30/2021	2021	774331	A	ad	2.697	
01/03/2022	2022	784798	A	ad	1.349	
01/31/2022	2022	796608	A	ad	1.522	
02/28/2022	2022	818446	A	ad	2.815	
03/31/2022	2022	908077	A	ad	11.553	
06/01/2022	2022	50066	A	ad	0	
07/01/2022	2022	85208	A	ad	4.530	
08/01/2022	2022	111798	A	ad	3.427	
09/01/2022	2022	124309	A	WEB	1.613	X
10/01/2022	2022	152307	A	WEB	3.609	X

x

**YTD Meter Amounts:	Year	Amount
	2016	0
	2017	2159.118
	2018	2276.744
	2019	1131.731
	2020	2.147
	2021	11.635

	2022	30.418

x

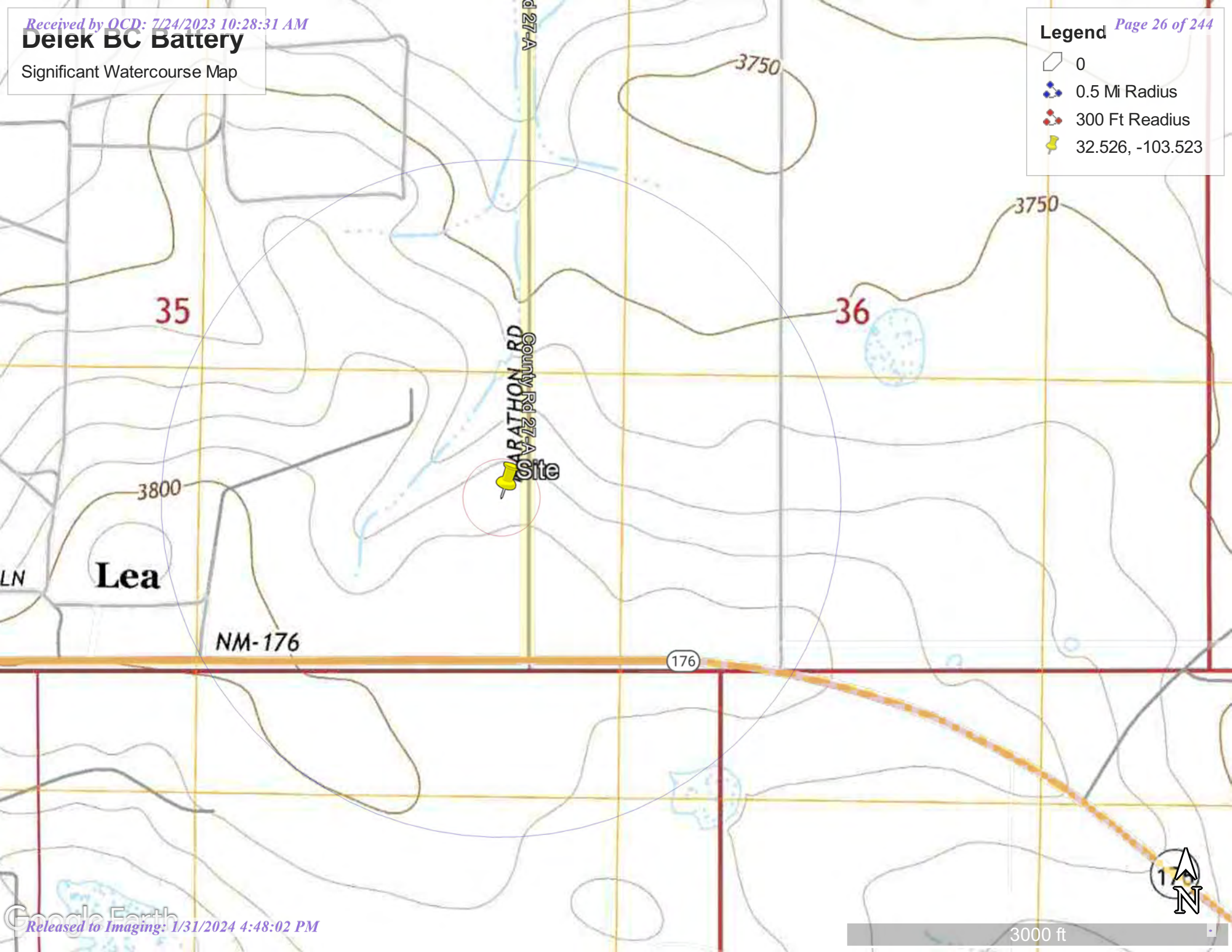
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/26/22 10:42 AM POINT OF DIVERSION SUMMARY

Received by OCD: 7/24/2023 10:28:31 AM

Delek BC Battery

Significant Watercourse Map



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Received by OCD: 7/24/2023 10:28:31 AM

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands Map

October 26, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

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National Flood Hazard Layer FIRMette

FEMA

103°31'42"W 32°31'49"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°31'4"W 32°31'18"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/26/2022 at 1:14 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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Attachment B

Laboratory Analytical Reports and Chain-of-Custody Documentation

Received by OCD: 7/24/2023 10:28:31 AM

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: James (J.T.) Murrey
GHD Services Inc.
2135 South Loop 250 West
Midland Texas 79703

JOB DESCRIPTION

Delek BC Berry
SDG NUMBER 12597046

JOB NUMBER

880-21410-1

Eurofins Midland
1211 W. Florida Ave
Midland TX79701

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Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Client Sample Results 5
Surrogate Summary 30
QC Sample Results 32
QC Association Summary 42
Lab Chronicle 50
Certification Summary 60
Method Summary 61
Sample Summary 62
Chain of Custody 63
Receipt Checklists 66
Appendix 67

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Job ID: 880-21410-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-21410-1

Comments
No additional comments.

Receipt
The samples were received on 11/9/2022 4:41 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0º C.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: SW05 (880-21410-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 880-39177 and analytical batch 880-39277.The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-39278 and analytical batch 880-39279 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-39170 and analytical batch 880-39164 was outside the upper control limits.

Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-39171 and analytical batch 880-39162 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: SW01

Lab Sample ID: 880-21410-1
Date Collected: 11/08/22 08:28
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/22 08:49	11/10/22 12:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/22 08:49	11/10/22 12:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/22 08:49	11/10/22 12:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/22 08:49	11/10/22 12:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/22 08:49	11/10/22 12:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/22 08:49	11/10/22 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/10/22 08:49*	*11/10/22 12:17*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/10/22 08:49*	*11/10/22 12:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/10/22 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/10/22 22:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/10/22 22:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/10/22 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*11/10/22 08:42*	*11/10/22 22:07*	*1*
o-Terphenyl	*119*		*70 - 130*	*11/10/22 08:42*	*11/10/22 22:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**771**		25.3		mg/Kg			11/10/22 17:18	5

Client Sample ID: SW02

Lab Sample ID: 880-21410-2
Date Collected: 11/08/22 10:16
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 12:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 12:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 12:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 08:49	11/10/22 12:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 12:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 08:49	11/10/22 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*11/10/22 08:49*	*11/10/22 12:38*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/10/22 08:49*	*11/10/22 12:38*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: SW02

Lab Sample ID: 880-21410-2
Matrix: Solid

Date Collected: 11/08/22 10:16
Date Received: 11/09/22 16:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/10/22 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/10/22 08:42	11/10/22 23:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/10/22 08:42	11/10/22 23:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/10/22 08:42	11/10/22 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*11/10/22 08:42*	*11/10/22 23:12*	*1*
o-Terphenyl	*129*		*70 - 130*	*11/10/22 08:42*	*11/10/22 23:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7750**		99.2		mg/Kg			11/10/22 17:33	20

Client Sample ID: SW03

Lab Sample ID: 880-21410-3
Matrix: Solid

Date Collected: 11/08/22 10:17
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 12:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 12:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 12:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 08:49	11/10/22 12:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 12:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 08:49	11/10/22 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/10/22 08:49*	*11/10/22 12:59*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/10/22 08:49*	*11/10/22 12:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/10/22 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/10/22 23:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/10/22 23:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: SW03

Lab Sample ID: 880-21410-3
Date Collected: 11/08/22 10:17
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/10/22 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*11/10/22 08:42*	*11/10/22 23:33*	*1*
o-Terphenyl	*130*		*70 - 130*	*11/10/22 08:42*	*11/10/22 23:33*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**725**		4.99		mg/Kg			11/10/22 17:38	1

Client Sample ID: SW04

Lab Sample ID: 880-21410-4
Date Collected: 11/08/22 10:18
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:49	11/10/22 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:49	11/10/22 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:49	11/10/22 13:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/22 08:49	11/10/22 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:49	11/10/22 13:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/22 08:49	11/10/22 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/10/22 08:49*	*11/10/22 13:19*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/10/22 08:49*	*11/10/22 13:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/10/22 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/10/22 23:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/10/22 23:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/10/22 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*11/10/22 08:42*	*11/10/22 23:55*	*1*
o-Terphenyl	*130*		*70 - 130*	*11/10/22 08:42*	*11/10/22 23:55*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**519**		5.01		mg/Kg			11/10/22 17:43	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: SW05

Lab Sample ID: 880-21410-5
Date Collected: 11/08/22 10:19
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 15:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 15:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 15:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 08:49	11/10/22 15:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 15:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 08:49	11/10/22 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*11/10/22 08:49*	*11/10/22 15:59*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/10/22 08:49*	*11/10/22 15:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/10/22 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 00:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 00:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*11/10/22 08:42*	*11/11/22 00:16*	*1*
o-Terphenyl	*121*		*70 - 130*	*11/10/22 08:42*	*11/11/22 00:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**285**		5.04		mg/Kg			11/10/22 17:48	1

Client Sample ID: SW06

Lab Sample ID: 880-21410-6
Date Collected: 11/08/22 10:20
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 16:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 16:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 16:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 08:49	11/10/22 16:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:49	11/10/22 16:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 08:49	11/10/22 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/10/22 08:49*	*11/10/22 16:20*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/10/22 08:49*	*11/10/22 16:20*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: SW06

Lab Sample ID: 880-21410-6
Date Collected: 11/08/22 10:20
Matrix: Solid
Date Received: 11/09/22 16:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/10/22 16:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 00:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 00:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*11/10/22 08:42*	*11/11/22 00:38*	*1*
o-Terphenyl	*126*		*70 - 130*	*11/10/22 08:42*	*11/11/22 00:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1160**		24.8		mg/Kg			11/10/22 18:03	5

Client Sample ID: SW07

Lab Sample ID: 880-21410-7
Date Collected: 11/08/22 10:22
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/11/22 07:54	11/11/22 11:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/11/22 07:54	11/11/22 11:51	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		11/11/22 07:54	11/11/22 11:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/11/22 07:54	11/11/22 11:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/11/22 07:54	11/11/22 11:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/11/22 07:54	11/11/22 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*11/11/22 07:54*	*11/11/22 11:51*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/11/22 07:54*	*11/11/22 11:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/11/22 15:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 00:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 00:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: SW07

Lab Sample ID: 880-21410-7
Date Collected: 11/08/22 10:22
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*11/10/22 08:42*	*11/11/22 00:59*	*1*
o-Terphenyl	*120*		*70 - 130*	*11/10/22 08:42*	*11/11/22 00:59*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**411**		4.96		mg/Kg			11/10/22 18:08	1

Client Sample ID: SW08

Lab Sample ID: 880-21410-8
Date Collected: 11/08/22 10:22
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 12:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 12:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 12:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 12:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 12:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/11/22 07:54*	*11/11/22 12:11*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/11/22 07:54*	*11/11/22 12:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/11/22 15:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**81.2**		50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 01:21	1
Diesel Range Organics (Over C10-C28)	**81.2**		50.0		mg/Kg		11/10/22 08:42	11/11/22 01:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*11/10/22 08:42*	*11/11/22 01:21*	*1*
o-Terphenyl	*114*		*70 - 130*	*11/10/22 08:42*	*11/11/22 01:21*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6400**		50.0		mg/Kg			11/10/22 18:13	10

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: SW09

Lab Sample ID: 880-21410-9
Date Collected: 11/08/22 10:24
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 12:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 12:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 12:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 12:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 12:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/11/22 07:54*	*11/11/22 12:32*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/11/22 07:54*	*11/11/22 12:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/11/22 15:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 01:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 01:43	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*11/10/22 08:42*	*11/11/22 01:43*	*1*
o-Terphenyl	*112*		*70 - 130*	*11/10/22 08:42*	*11/11/22 01:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6310**		49.7		mg/Kg			11/10/22 18:18	10

Client Sample ID: BH01

Lab Sample ID: 880-21410-10
Date Collected: 11/08/22 10:58
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 13:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 13:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 13:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/11/22 07:54	11/11/22 13:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 13:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/11/22 07:54	11/11/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/11/22 07:54*	*11/11/22 13:24*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/11/22 07:54*	*11/11/22 13:24*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH01

Lab Sample ID: 880-21410-10
Date Collected: 11/08/22 10:58
Matrix: Solid
Date Received: 11/09/22 16:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/11/22 15:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**202**		49.9		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 02:04	1
Diesel Range Organics (Over C10-C28)	**202**		49.9		mg/Kg		11/10/22 08:42	11/11/22 02:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*11/10/22 08:42*	*11/11/22 02:04*	*1*
o-Terphenyl	*122*		*70 - 130*	*11/10/22 08:42*	*11/11/22 02:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8490**		101		mg/Kg			11/10/22 18:22	20

Client Sample ID: BH02

Lab Sample ID: 880-21410-11
Date Collected: 11/08/22 10:58
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 15:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 15:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 15:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/11/22 07:54	11/11/22 15:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 15:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/11/22 07:54	11/11/22 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/11/22 07:54*	*11/11/22 15:07*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/11/22 07:54*	*11/11/22 15:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/11/22 17:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**79.8**		50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 02:48	1
Diesel Range Organics (Over C10-C28)	**79.8**		50.0		mg/Kg		11/10/22 08:42	11/11/22 02:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH02

Lab Sample ID: 880-21410-11
Date Collected: 11/08/22 10:58
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*11/10/22 08:42*	*11/11/22 02:48*	*1*
o-Terphenyl	*115*		*70 - 130*	*11/10/22 08:42*	*11/11/22 02:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3450**		50.1		mg/Kg			11/10/22 18:28	10

Client Sample ID: BH03

Lab Sample ID: 880-21410-12
Date Collected: 11/08/22 11:00
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 15:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 15:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 15:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/11/22 07:54	11/11/22 15:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 15:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/11/22 07:54	11/11/22 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*11/11/22 07:54*	*11/11/22 15:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/11/22 07:54*	*11/11/22 15:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/11/22 17:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**70.5**		50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 03:09	1
Diesel Range Organics (Over C10-C28)	**70.5**		50.0		mg/Kg		11/10/22 08:42	11/11/22 03:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*11/10/22 08:42*	*11/11/22 03:09*	*1*
o-Terphenyl	*119*		*70 - 130*	*11/10/22 08:42*	*11/11/22 03:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1240**		25.0		mg/Kg			11/10/22 18:42	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH04

Lab Sample ID: 880-21410-13
Date Collected: 11/08/22 11:01
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 18:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 18:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 18:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 18:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 18:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/11/22 07:54*	*11/11/22 18:04*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/11/22 07:54*	*11/11/22 18:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 03:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 03:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*11/10/22 08:42*	*11/11/22 03:32*	*1*
o-Terphenyl	*123*		*70 - 130*	*11/10/22 08:42*	*11/11/22 03:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3040**		24.8		mg/Kg			11/10/22 18:47	5

Client Sample ID: BH05

Lab Sample ID: 880-21410-14
Date Collected: 11/08/22 11:03
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 18:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 18:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 18:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/11/22 07:54	11/11/22 18:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 18:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/11/22 07:54	11/11/22 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/11/22 07:54*	*11/11/22 18:24*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/11/22 07:54*	*11/11/22 18:24*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH05

Lab Sample ID: 880-21410-14
Date Collected: 11/08/22 11:03
Matrix: Solid
Date Received: 11/09/22 16:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/14/22 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 03:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 03:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*11/10/22 08:42*	*11/11/22 03:54*	*1*
o-Terphenyl	*119*		*70 - 130*	*11/10/22 08:42*	*11/11/22 03:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5410**		50.3		mg/Kg			11/10/22 19:02	10

Client Sample ID: BH06

Lab Sample ID: 880-21410-15
Date Collected: 11/08/22 11:05
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/11/22 07:54	11/11/22 18:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/11/22 07:54	11/11/22 18:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/11/22 07:54	11/11/22 18:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/11/22 07:54	11/11/22 18:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/11/22 07:54	11/11/22 18:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/11/22 07:54	11/11/22 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/11/22 07:54*	*11/11/22 18:45*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*11/11/22 07:54*	*11/11/22 18:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/14/22 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 04:16	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH06

Lab Sample ID: 880-21410-15
Date Collected: 11/08/22 11:05
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/10/22 08:42*	*11/11/22 04:16*	*1*
o-Terphenyl	*97*		*70 - 130*	*11/10/22 08:42*	*11/11/22 04:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**787**		25.1		mg/Kg			11/10/22 19:07	5

Client Sample ID: BH07

Lab Sample ID: 880-21410-16
Date Collected: 11/08/22 11:06
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 19:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 19:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 19:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 19:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 19:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/11/22 07:54*	*11/11/22 19:05*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/11/22 07:54*	*11/11/22 19:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**86.5**		50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 04:37	1
Diesel Range Organics (Over C10-C28)	**86.5**		50.0		mg/Kg		11/10/22 08:42	11/11/22 04:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*11/10/22 08:42*	*11/11/22 04:37*	*1*
o-Terphenyl	*113*		*70 - 130*	*11/10/22 08:42*	*11/11/22 04:37*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4200**		49.7		mg/Kg			11/10/22 19:12	10

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH08

Lab Sample ID: 880-21410-17
Date Collected: 11/08/22 11:08
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 19:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 19:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 19:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 19:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/11/22 07:54	11/11/22 19:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/11/22 07:54	11/11/22 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*11/11/22 07:54*	*11/11/22 19:26*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/11/22 07:54*	*11/11/22 19:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 04:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 04:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/11/22 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*11/10/22 08:42*	*11/11/22 04:59*	*1*
o-Terphenyl	*113*		*70 - 130*	*11/10/22 08:42*	*11/11/22 04:59*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**677**		4.96		mg/Kg			11/10/22 19:17	1

Client Sample ID: BH09

Lab Sample ID: 880-21410-18
Date Collected: 11/08/22 11:09
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/11/22 07:54	11/11/22 19:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/11/22 07:54	11/11/22 19:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/11/22 07:54	11/11/22 19:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/11/22 07:54	11/11/22 19:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/11/22 07:54	11/11/22 19:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/11/22 07:54	11/11/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/11/22 07:54*	*11/11/22 19:46*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/11/22 07:54*	*11/11/22 19:46*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH09

Lab Sample ID: 880-21410-18
Date Collected: 11/08/22 11:09
Matrix: Solid
Date Received: 11/09/22 16:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 05:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 05:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 05:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/10/22 08:42*	*11/11/22 05:21*	*1*
o-Terphenyl	*110*		*70 - 130*	*11/10/22 08:42*	*11/11/22 05:21*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**441**		5.00		mg/Kg			11/10/22 19:22	1

Client Sample ID: BH10

Lab Sample ID: 880-21410-19
Date Collected: 11/08/22 11:11
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/11/22 07:54	11/11/22 20:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/11/22 07:54	11/11/22 20:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/11/22 07:54	11/11/22 20:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/11/22 07:54	11/11/22 20:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/11/22 07:54	11/11/22 20:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/11/22 07:54	11/11/22 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/11/22 07:54*	*11/11/22 20:07*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/11/22 07:54*	*11/11/22 20:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/14/22 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 05:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 05:43	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH10

Lab Sample ID: 880-21410-19
Date Collected: 11/08/22 11:11
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:42	11/11/22 05:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*11/10/22 08:42*	*11/11/22 05:43*	*1*
o-Terphenyl	*104*		*70 - 130*	*11/10/22 08:42*	*11/11/22 05:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**486**		4.96		mg/Kg			11/10/22 19:27	1

Client Sample ID: BH11

Lab Sample ID: 880-21410-20
Date Collected: 11/08/22 11:12
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 20:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 20:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 20:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/11/22 07:54	11/11/22 20:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 20:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/11/22 07:54	11/11/22 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/11/22 07:54*	*11/11/22 20:27*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/11/22 07:54*	*11/11/22 20:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/22 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**69.3**		49.8		mg/Kg			11/11/22 09:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/10/22 08:42	11/11/22 06:05	1
Diesel Range Organics (Over C10-C28)	**69.3**		49.8		mg/Kg		11/10/22 08:42	11/11/22 06:05	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/10/22 08:42	11/11/22 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*11/10/22 08:42*	*11/11/22 06:05*	*1*
o-Terphenyl	*122*		*70 - 130*	*11/10/22 08:42*	*11/11/22 06:05*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3300**		24.9		mg/Kg			11/10/22 19:32	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH12

Lab Sample ID: 880-21410-21
Date Collected: 11/08/22 11:13
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/10/22 08:57	11/11/22 13:07	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		11/10/22 08:57	11/11/22 13:07	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/10/22 08:57	11/11/22 13:07	1
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.00401		mg/Kg		11/10/22 08:57	11/11/22 13:07	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		11/10/22 08:57	11/11/22 13:07	1
Xylenes, Total	<0.00401	U F1	0.00401		mg/Kg		11/10/22 08:57	11/11/22 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*11/10/22 08:57*	*11/11/22 13:07*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*11/10/22 08:57*	*11/11/22 13:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/11/22 15:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/10/22 22:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/10/22 22:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/10/22 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*11/10/22 08:45*	*11/10/22 22:07*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/10/22 08:45*	*11/10/22 22:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**896**		50.0		mg/Kg			11/10/22 23:26	10

Client Sample ID: BH13

Lab Sample ID: 880-21410-22
Date Collected: 11/08/22 11:15
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 13:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 13:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 13:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/22 08:57	11/11/22 13:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 13:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/22 08:57	11/11/22 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*11/10/22 08:57*	*11/11/22 13:28*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*11/10/22 08:57*	*11/11/22 13:28*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH13

Lab Sample ID: 880-21410-22
Date Collected: 11/08/22 11:15
Matrix: Solid
Date Received: 11/09/22 16:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/11/22 15:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/10/22 08:45	11/10/22 23:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/10/22 08:45	11/10/22 23:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/10/22 08:45	11/10/22 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/10/22 08:45*	*11/10/22 23:12*	*1*
o-Terphenyl	*102*		*70 - 130*	*11/10/22 08:45*	*11/10/22 23:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**312**		4.99		mg/Kg			11/10/22 23:31	1

Client Sample ID: BH14

Lab Sample ID: 880-21410-23
Date Collected: 11/08/22 11:16
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 13:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 13:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 13:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 13:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 13:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*11/10/22 08:57*	*11/11/22 13:49*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*11/10/22 08:57*	*11/11/22 13:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/11/22 15:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:45	11/10/22 23:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:45	11/10/22 23:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH14

Lab Sample ID: 880-21410-23
Date Collected: 11/08/22 11:16
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:45	11/10/22 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*11/10/22 08:45*	*11/10/22 23:33*	*1*
o-Terphenyl	*119*		*70 - 130*	*11/10/22 08:45*	*11/10/22 23:33*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**529**		24.8		mg/Kg			11/10/22 23:36	5

Client Sample ID: BH15

Lab Sample ID: 880-21410-24
Date Collected: 11/08/22 11:17
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 14:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/22 08:57	11/11/22 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 14:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/22 08:57	11/11/22 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/10/22 08:57*	*11/11/22 14:10*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*11/10/22 08:57*	*11/11/22 14:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/11/22 15:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/10/22 23:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/10/22 23:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/10/22 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/10/22 08:45*	*11/10/22 23:55*	*1*
o-Terphenyl	*112*		*70 - 130*	*11/10/22 08:45*	*11/10/22 23:55*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1150**		24.9		mg/Kg			11/10/22 23:41	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH16

Lab Sample ID: 880-21410-25
Date Collected: 11/08/22 11:18
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 14:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 14:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 14:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 14:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 14:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*11/10/22 08:57*	*11/11/22 14:30*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*11/10/22 08:57*	*11/11/22 14:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/11/22 15:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 00:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 00:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*11/10/22 08:45*	*11/11/22 00:16*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/10/22 08:45*	*11/11/22 00:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**569**		25.0		mg/Kg			11/10/22 23:55	5

Client Sample ID: BH17

Lab Sample ID: 880-21410-26
Date Collected: 11/08/22 11:19
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 14:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 14:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 14:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/10/22 08:57	11/11/22 14:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 14:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/10/22 08:57	11/11/22 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*11/10/22 08:57*	*11/11/22 14:51*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/10/22 08:57*	*11/11/22 14:51*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH17

Lab Sample ID: 880-21410-26
Date Collected: 11/08/22 11:19
Matrix: Solid
Date Received: 11/09/22 16:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/14/22 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 00:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 00:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/10/22 08:45*	*11/11/22 00:38*	*1*
o-Terphenyl	*113*		*70 - 130*	*11/10/22 08:45*	*11/11/22 00:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**288**		4.99		mg/Kg			11/11/22 00:00	1

Client Sample ID: BH18

Lab Sample ID: 880-21410-27
Date Collected: 11/08/22 11:20
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/22 08:57	11/11/22 15:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/22 08:57	11/11/22 15:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/22 08:57	11/11/22 15:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/22 08:57	11/11/22 15:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/22 08:57	11/11/22 15:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/22 08:57	11/11/22 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/10/22 08:57*	*11/11/22 15:12*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*11/10/22 08:57*	*11/11/22 15:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 00:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 00:59	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH18

Lab Sample ID: 880-21410-27
Date Collected: 11/08/22 11:20
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/10/22 08:45*	*11/11/22 00:59*	*1*
o-Terphenyl	*111*		*70 - 130*	*11/10/22 08:45*	*11/11/22 00:59*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**445**		25.1		mg/Kg			11/11/22 00:15	5

Client Sample ID: BH19

Lab Sample ID: 880-21410-28
Date Collected: 11/08/22 11:22
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 15:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 15:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 15:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 15:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 15:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*11/10/22 08:57*	*11/11/22 15:33*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*11/10/22 08:57*	*11/11/22 15:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 01:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 01:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 01:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/10/22 08:45*	*11/11/22 01:21*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/10/22 08:45*	*11/11/22 01:21*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**365**		24.9		mg/Kg			11/11/22 00:20	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH20

Lab Sample ID: 880-21410-29
Date Collected: 11/08/22 11:23
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 15:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 15:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 15:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/10/22 08:57	11/11/22 15:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 15:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/10/22 08:57	11/11/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/10/22 08:57*	*11/11/22 15:54*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*11/10/22 08:57*	*11/11/22 15:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/14/22 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:45	11/11/22 01:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:45	11/11/22 01:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:45	11/11/22 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*11/10/22 08:45*	*11/11/22 01:43*	*1*
o-Terphenyl	*105*		*70 - 130*	*11/10/22 08:45*	*11/11/22 01:43*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**342**		25.0		mg/Kg			11/11/22 00:25	5

Client Sample ID: BH21

Lab Sample ID: 880-21410-30
Date Collected: 11/08/22 11:24
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 16:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 16:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 16:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 16:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 16:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*11/10/22 08:57*	*11/11/22 16:40*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*11/10/22 08:57*	*11/11/22 16:40*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH21

Lab Sample ID: 880-21410-30
Date Collected: 11/08/22 11:24
Matrix: Solid
Date Received: 11/09/22 16:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:45	11/11/22 02:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:45	11/11/22 02:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:45	11/11/22 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/10/22 08:45*	*11/11/22 02:04*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/10/22 08:45*	*11/11/22 02:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**531**		24.8		mg/Kg			11/11/22 00:30	5

Client Sample ID: BH22

Lab Sample ID: 880-21410-31
Date Collected: 11/08/22 11:25
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 18:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 18:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 18:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 18:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 18:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*11/10/22 08:57*	*11/11/22 18:05*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*11/10/22 08:57*	*11/11/22 18:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 02:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 02:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH22

Lab Sample ID: 880-21410-31
Date Collected: 11/08/22 11:25
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*11/10/22 08:45*	*11/11/22 02:48*	*1*
o-Terphenyl	*88*		*70 - 130*	*11/10/22 08:45*	*11/11/22 02:48*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**525**		24.9		mg/Kg			11/11/22 00:35	5

Client Sample ID: BH23

Lab Sample ID: 880-21410-32
Date Collected: 11/08/22 11:25
Matrix: Solid
Date Received: 11/09/22 16:41

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 18:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 18:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 18:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/10/22 08:57	11/11/22 18:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 18:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/10/22 08:57	11/11/22 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/10/22 08:57*	*11/11/22 18:25*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*11/10/22 08:57*	*11/11/22 18:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/22 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 03:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 03:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/11/22 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*11/10/22 08:45*	*11/11/22 03:09*	*1*
o-Terphenyl	*110*		*70 - 130*	*11/10/22 08:45*	*11/11/22 03:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**866**		25.0		mg/Kg			11/11/22 00:40	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH24

Date Collected: 11/08/22 11:26
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-33

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 18:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 18:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 18:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 18:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 08:57	11/11/22 18:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 08:57	11/11/22 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/10/22 08:57*	*11/11/22 18:46*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/10/22 08:57*	*11/11/22 18:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 11:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**199**		49.9		mg/Kg			11/11/22 09:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/10/22 08:45	11/11/22 03:32	1
Diesel Range Organics (Over C10-C28)	**110**		49.9		mg/Kg		11/10/22 08:45	11/11/22 03:32	1
Oil Range Organics (Over C28-C36)	**88.9**		49.9		mg/Kg		11/10/22 08:45	11/11/22 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*11/10/22 08:45*	*11/11/22 03:32*	*1*
o-Terphenyl	*75*		*70 - 130*	*11/10/22 08:45*	*11/11/22 03:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1990**		24.9		mg/Kg			11/11/22 00:45	5

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)								
880-21410-1	SW01	94	102								
880-21410-1 MS	SW01	99	96								
880-21410-1 MSD	SW01	89	93								
880-21410-2	SW02	118	103								
880-21410-3	SW03	104	111								
880-21410-4	SW04	108	112								
880-21410-5	SW05	68 S1-	107								
880-21410-6	SW06	108	112								
880-21410-7	SW07	87	92								
880-21410-7 MS	SW07	98	118								
880-21410-7 MSD	SW07	98	116								
880-21410-8	SW08	101	101								
880-21410-9	SW09	101	102								
880-21410-10	BH01	93	97								
880-21410-11	BH02	94	103								
880-21410-12	BH03	87	105								
880-21410-13	BH04	94	103								
880-21410-14	BH05	97	105								
880-21410-15	BH06	90	79								
880-21410-16	BH07	98	102								
880-21410-17	BH08	88	92								
880-21410-18	BH09	98	101								
880-21410-19	BH10	100	103								
880-21410-20	BH11	97	96								
880-21410-21	BH12	119	94								
880-21410-21 MS	BH12	101	102								
880-21410-21 MSD	BH12	87	103								
880-21410-22	BH13	99	114								
880-21410-23	BH14	118	78								
880-21410-24	BH15	107	116								
880-21410-25	BH16	113	119								
880-21410-26	BH17	119	106								
880-21410-27	BH18	115	112								
880-21410-28	BH19	119	117								
880-21410-29	BH20	112	119								
880-21410-30	BH21	119	115								
880-21410-31	BH22	84	80								
880-21410-32	BH23	111	117								
880-21410-33	BH24	115	111								
LCS 880-39173/1-A	Lab Control Sample	83	103								
LCS 880-39177/1-A	Lab Control Sample	82	105								
LCS 880-39278/1-A	Lab Control Sample	96	112								
LCSD 880-39173/2-A	Lab Control Sample Dup	91	105								
LCSD 880-39177/2-A	Lab Control Sample Dup	82	102								
LCSD 880-39278/2-A	Lab Control Sample Dup	91	118								
MB 880-39173/5-A	Method Blank	89	100								
MB 880-39177/5-A	Method Blank	93	99								
MB 880-39278/5-A	Method Blank	79	95								

Surrogate Legend

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-21410-1	SW01	112	119
880-21410-1 MS	SW01	95	96
880-21410-1 MSD	SW01	111	108
880-21410-2	SW02	124	129
880-21410-3	SW03	124	130
880-21410-4	SW04	125	130
880-21410-5	SW05	112	121
880-21410-6	SW06	122	126
880-21410-7	SW07	110	120
880-21410-8	SW08	107	114
880-21410-9	SW09	103	112
880-21410-10	BH01	113	122
880-21410-11	BH02	108	115
880-21410-12	BH03	117	119
880-21410-13	BH04	120	123
880-21410-14	BH05	117	119
880-21410-15	BH06	92	97
880-21410-16	BH07	107	113
880-21410-17	BH08	107	113
880-21410-18	BH09	105	110
880-21410-19	BH10	99	104
880-21410-20	BH11	123	122
880-21410-21	BH12	83	92
880-21410-21 MS	BH12	85	84
880-21410-21 MSD	BH12	78	77
880-21410-22	BH13	91	102
880-21410-23	BH14	109	119
880-21410-24	BH15	105	112
880-21410-25	BH16	86	95
880-21410-26	BH17	104	113
880-21410-27	BH18	104	111
880-21410-28	BH19	91	99
880-21410-29	BH20	94	105
880-21410-30	BH21	85	94
880-21410-31	BH22	82	88
880-21410-32	BH23	103	110
880-21410-33	BH24	70	75
LCS 880-39170/2-A	Lab Control Sample	115	126
LCS 880-39171/2-A	Lab Control Sample	100	113
LCSD 880-39170/3-A	Lab Control Sample Dup	112	125
LCSD 880-39171/3-A	Lab Control Sample Dup	101	114
MB 880-39170/1-A	Method Blank	135 S1+	150 S1+
MB 880-39171/1-A	Method Blank	116	133 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39173/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39168 — **Prep Batch: 39173**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:49	11/10/22 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:49	11/10/22 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:49	11/10/22 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/22 08:49	11/10/22 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:49	11/10/22 11:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/22 08:49	11/10/22 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*11/10/22 08:49*	*11/10/22 11:55*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/10/22 08:49*	*11/10/22 11:55*	*1*

Lab Sample ID: LCS 880-39173/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39168 — **Prep Batch: 39173**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09587		mg/Kg		96	70 - 130
Toluene	0.100	0.09200		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09041		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1671		mg/Kg		84	70 - 130
o-Xylene	0.100	0.09503		mg/Kg		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-39173/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39168 — **Prep Batch: 39173**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1050		mg/Kg		105	70 - 130	9	35
Toluene	0.100	0.1045		mg/Kg		105	70 - 130	13	35
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.2009		mg/Kg		100	70 - 130	18	35
o-Xylene	0.100	0.1142		mg/Kg		114	70 - 130	18	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-21410-1 MS — **Client Sample ID: SW01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39168 — **Prep Batch: 39173**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.07480		mg/Kg		75	70 - 130
Toluene	<0.00201	U	0.0996	0.07748		mg/Kg		78	70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-21410-1 MS — **Client Sample ID: SW01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39168 — **Prep Batch: 39173**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0996	0.08213		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1591		mg/Kg		80	70 - 130
o-Xylene	<0.00201	U	0.0996	0.09075		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-21410-1 MSD — **Client Sample ID: SW01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39168 — **Prep Batch: 39173**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.07753		mg/Kg		78	70 - 130	4	35
Toluene	<0.00201	U	0.0994	0.08154		mg/Kg		82	70 - 130	5	35
Ethylbenzene	<0.00201	U	0.0994	0.07685		mg/Kg		77	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1514		mg/Kg		76	70 - 130	5	35
o-Xylene	<0.00201	U	0.0994	0.08535		mg/Kg		86	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 880-39177/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39277 — **Prep Batch: 39177**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/22 08:57	11/11/22 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 08:57	11/11/22 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/22 08:57	11/11/22 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/10/22 08:57*	*11/11/22 12:45*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/10/22 08:57*	*11/11/22 12:45*	*1*

Lab Sample ID: LCS 880-39177/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39277 — **Prep Batch: 39177**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1150		mg/Kg		115	70 - 130
Toluene	0.100	0.1096		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-39177/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39277 — **Prep Batch: 39177**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-39177/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39277 — **Prep Batch: 39177**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1065		mg/Kg		106	70 - 130	8	35
Toluene	0.100	0.1044		mg/Kg		104	70 - 130	5	35
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1824		mg/Kg		91	70 - 130	2	35
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-21410-21 MS — **Client Sample ID: BH12**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39277 — **Prep Batch: 39177**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F2 F1	0.0998	0.04148	F1	mg/Kg		42	70 - 130
Toluene	<0.00200	U F2 F1	0.0998	0.04392	F1	mg/Kg		44	70 - 130
Ethylbenzene	<0.00200	U F2 F1	0.0998	0.04699	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.200	0.09490	F1	mg/Kg		48	70 - 130
o-Xylene	<0.00200	U F1	0.0998	0.05755	F1	mg/Kg		58	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-21410-21 MSD — **Client Sample ID: BH12**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39277 — **Prep Batch: 39177**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0996	0.08738	F2	mg/Kg		88	70 - 130	71	35
Toluene	<0.00200	U F2 F1	0.0996	0.08153	F2	mg/Kg		82	70 - 130	60	35
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.07341	F2	mg/Kg		74	70 - 130	44	35
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.199	0.1379	F2 F1	mg/Kg		69	70 - 130	37	35
o-Xylene	<0.00200	U F1	0.0996	0.07826		mg/Kg		79	70 - 130	31	35

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-21410-21 MSD
Matrix: Solid
Analysis Batch: 39277

Client Sample ID: BH12
Prep Type: Total/NA
Prep Batch: 39177

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-39278/5-A
Matrix: Solid
Analysis Batch: 39279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 11:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 11:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 11:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/11/22 07:54	11/11/22 11:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/11/22 07:54	11/11/22 11:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/11/22 07:54	11/11/22 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	11/11/22 07:54	11/11/22 11:29	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/11/22 07:54	11/11/22 11:29	1

Lab Sample ID: LCS 880-39278/1-A
Matrix: Solid
Analysis Batch: 39279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1078		mg/Kg		108	70 - 130
Toluene	0.100	0.09299		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09158		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1884		mg/Kg		94	70 - 130
o-Xylene	0.100	0.09176		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-39278/2-A
Matrix: Solid
Analysis Batch: 39279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39278

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1105		mg/Kg		111	70 - 130	2	35
Toluene	0.100	0.09284		mg/Kg		93	70 - 130	0	35
Ethylbenzene	0.100	0.08721		mg/Kg		87	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1780		mg/Kg		89	70 - 130	6	35
o-Xylene	0.100	0.08684		mg/Kg		87	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-39278/2-A
Matrix: Solid
Analysis Batch: 39279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39278

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-21410-7 MS
Matrix: Solid
Analysis Batch: 39279

Client Sample ID: SW07
Prep Type: Total/NA
Prep Batch: 39278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09370		mg/Kg		94	70 - 130
Toluene	<0.00201	U	0.100	0.07829		mg/Kg		78	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.07774		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1580		mg/Kg		79	70 - 130
o-Xylene	<0.00201	U	0.100	0.07763		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 880-21410-7 MSD
Matrix: Solid
Analysis Batch: 39279

Client Sample ID: SW07
Prep Type: Total/NA
Prep Batch: 39278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.08232		mg/Kg		83	70 - 130	13	35
Toluene	<0.00201	U	0.0996	0.06954		mg/Kg		70	70 - 130	12	35
Ethylbenzene	<0.00201	U F1	0.0996	0.06887	F1	mg/Kg		69	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1411		mg/Kg		71	70 - 130	11	35
o-Xylene	<0.00201	U	0.0996	0.07014		mg/Kg		70	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-39170/1-A
Matrix: Solid
Analysis Batch: 39164

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39170

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/10/22 21:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/10/22 21:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:42	11/10/22 21:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	11/10/22 08:42	11/10/22 21:02	1
o-Terphenyl	150	S1+	70 - 130	11/10/22 08:42	11/10/22 21:02	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-39170/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39164 — **Prep Batch: 39170**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1164		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1128		mg/Kg		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*126*		*70 - 130*

Lab Sample ID: LCSD 880-39170/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39164 — **Prep Batch: 39170**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1133		mg/Kg		113	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1116		mg/Kg		112	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: 880-21410-1 MS — **Client Sample ID: SW01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39164 — **Prep Batch: 39170**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	861.3		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1073		mg/Kg		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: 880-21410-1 MSD — **Client Sample ID: SW01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 39164 — **Prep Batch: 39170**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	979.2		mg/Kg		98	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1217		mg/Kg		122	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-21410-1 MSD
Matrix: Solid
Analysis Batch: 39164

Client Sample ID: SW01
Prep Type: Total/NA
Prep Batch: 39170

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	108		70 - 130

Lab Sample ID: MB 880-39171/1-A
Matrix: Solid
Analysis Batch: 39162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 39171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/10/22 21:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/10/22 21:02	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:45	11/10/22 21:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	11/10/22 08:45	11/10/22 21:02	1
o-Terphenyl	133	S1+	70 - 130	11/10/22 08:45	11/10/22 21:02	1

Lab Sample ID: LCS 880-39171/2-A
Matrix: Solid
Analysis Batch: 39162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	969.2		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	863.4		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-39171/3-A
Matrix: Solid
Analysis Batch: 39162

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 39171

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	979.5		mg/Kg		98	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	897.1		mg/Kg		90	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	114		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-21410-21 MS
Matrix: Solid
Analysis Batch: 39162

Client Sample ID: BH12
Prep Type: Total/NA
Prep Batch: 39171

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	814.0		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	965.1		mg/Kg		97	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: 880-21410-21 MSD
Matrix: Solid
Analysis Batch: 39162

Client Sample ID: BH12
Prep Type: Total/NA
Prep Batch: 39171

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	795.2		mg/Kg		77	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	905.7		mg/Kg		91	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39175/1-A
Matrix: Solid
Analysis Batch: 39241

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/10/22 17:03	1

Lab Sample ID: LCS 880-39175/2-A
Matrix: Solid
Analysis Batch: 39241

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.7		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-39175/3-A
Matrix: Solid
Analysis Batch: 39241

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	258.1		mg/Kg		103	90 - 110	0	20

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-21410-1 MS — **Client Sample ID: SW01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	771		1260	2061		mg/Kg		102	90 - 110		

Lab Sample ID: 880-21410-1 MSD — **Client Sample ID: SW01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	771		1260	2063		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-21410-11 MS — **Client Sample ID: BH02**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3450		2510	6196		mg/Kg		110	90 - 110		

Lab Sample ID: 880-21410-11 MSD — **Client Sample ID: BH02**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3450		2510	6193		mg/Kg		110	90 - 110	0	20

Lab Sample ID: MB 880-39169/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/10/22 22:16	1

Lab Sample ID: LCS 880-39169/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39242

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.3		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-39169/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39242

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.6		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 880-21410-24 MS — **Client Sample ID: BH15**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 39242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1150		1240	2439		mg/Kg		104	90 - 110		

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-21410-24 MSD
Matrix: Solid
Analysis Batch: 39242

Client Sample ID: BH15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1150		1240	2430		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

GC VOA

Analysis Batch: 39168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-1	SW01	Total/NA	Solid	8021B	39173
880-21410-2	SW02	Total/NA	Solid	8021B	39173
880-21410-3	SW03	Total/NA	Solid	8021B	39173
880-21410-4	SW04	Total/NA	Solid	8021B	39173
880-21410-5	SW05	Total/NA	Solid	8021B	39173
880-21410-6	SW06	Total/NA	Solid	8021B	39173
MB 880-39173/5-A	Method Blank	Total/NA	Solid	8021B	39173
LCS 880-39173/1-A	Lab Control Sample	Total/NA	Solid	8021B	39173
LCSD 880-39173/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39173
880-21410-1 MS	SW01	Total/NA	Solid	8021B	39173
880-21410-1 MSD	SW01	Total/NA	Solid	8021B	39173

Prep Batch: 39173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-1	SW01	Total/NA	Solid	5035	
880-21410-2	SW02	Total/NA	Solid	5035	
880-21410-3	SW03	Total/NA	Solid	5035	
880-21410-4	SW04	Total/NA	Solid	5035	
880-21410-5	SW05	Total/NA	Solid	5035	
880-21410-6	SW06	Total/NA	Solid	5035	
MB 880-39173/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39173/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39173/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21410-1 MS	SW01	Total/NA	Solid	5035	
880-21410-1 MSD	SW01	Total/NA	Solid	5035	

Prep Batch: 39177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-21	BH12	Total/NA	Solid	5035	
880-21410-22	BH13	Total/NA	Solid	5035	
880-21410-23	BH14	Total/NA	Solid	5035	
880-21410-24	BH15	Total/NA	Solid	5035	
880-21410-25	BH16	Total/NA	Solid	5035	
880-21410-26	BH17	Total/NA	Solid	5035	
880-21410-27	BH18	Total/NA	Solid	5035	
880-21410-28	BH19	Total/NA	Solid	5035	
880-21410-29	BH20	Total/NA	Solid	5035	
880-21410-30	BH21	Total/NA	Solid	5035	
880-21410-31	BH22	Total/NA	Solid	5035	
880-21410-32	BH23	Total/NA	Solid	5035	
880-21410-33	BH24	Total/NA	Solid	5035	
MB 880-39177/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39177/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39177/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21410-21 MS	BH12	Total/NA	Solid	5035	
880-21410-21 MSD	BH12	Total/NA	Solid	5035	

Analysis Batch: 39264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-1	SW01	Total/NA	Solid	Total BTEX	
880-21410-2	SW02	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

GC VOA (Continued)

Analysis Batch: 39264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-3	SW03	Total/NA	Solid	Total BTEX	
880-21410-4	SW04	Total/NA	Solid	Total BTEX	
880-21410-5	SW05	Total/NA	Solid	Total BTEX	
880-21410-6	SW06	Total/NA	Solid	Total BTEX	
880-21410-7	SW07	Total/NA	Solid	Total BTEX	
880-21410-8	SW08	Total/NA	Solid	Total BTEX	
880-21410-9	SW09	Total/NA	Solid	Total BTEX	
880-21410-10	BH01	Total/NA	Solid	Total BTEX	
880-21410-11	BH02	Total/NA	Solid	Total BTEX	
880-21410-12	BH03	Total/NA	Solid	Total BTEX	
880-21410-13	BH04	Total/NA	Solid	Total BTEX	
880-21410-14	BH05	Total/NA	Solid	Total BTEX	
880-21410-15	BH06	Total/NA	Solid	Total BTEX	
880-21410-16	BH07	Total/NA	Solid	Total BTEX	
880-21410-17	BH08	Total/NA	Solid	Total BTEX	
880-21410-18	BH09	Total/NA	Solid	Total BTEX	
880-21410-19	BH10	Total/NA	Solid	Total BTEX	
880-21410-20	BH11	Total/NA	Solid	Total BTEX	
880-21410-21	BH12	Total/NA	Solid	Total BTEX	
880-21410-22	BH13	Total/NA	Solid	Total BTEX	
880-21410-23	BH14	Total/NA	Solid	Total BTEX	
880-21410-24	BH15	Total/NA	Solid	Total BTEX	
880-21410-25	BH16	Total/NA	Solid	Total BTEX	
880-21410-26	BH17	Total/NA	Solid	Total BTEX	
880-21410-27	BH18	Total/NA	Solid	Total BTEX	
880-21410-28	BH19	Total/NA	Solid	Total BTEX	
880-21410-29	BH20	Total/NA	Solid	Total BTEX	
880-21410-30	BH21	Total/NA	Solid	Total BTEX	
880-21410-31	BH22	Total/NA	Solid	Total BTEX	
880-21410-32	BH23	Total/NA	Solid	Total BTEX	
880-21410-33	BH24	Total/NA	Solid	Total BTEX	

Analysis Batch: 39277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-21	BH12	Total/NA	Solid	8021B	39177
880-21410-22	BH13	Total/NA	Solid	8021B	39177
880-21410-23	BH14	Total/NA	Solid	8021B	39177
880-21410-24	BH15	Total/NA	Solid	8021B	39177
880-21410-25	BH16	Total/NA	Solid	8021B	39177
880-21410-26	BH17	Total/NA	Solid	8021B	39177
880-21410-27	BH18	Total/NA	Solid	8021B	39177
880-21410-28	BH19	Total/NA	Solid	8021B	39177
880-21410-29	BH20	Total/NA	Solid	8021B	39177
880-21410-30	BH21	Total/NA	Solid	8021B	39177
880-21410-31	BH22	Total/NA	Solid	8021B	39177
880-21410-32	BH23	Total/NA	Solid	8021B	39177
880-21410-33	BH24	Total/NA	Solid	8021B	39177
MB 880-39177/5-A	Method Blank	Total/NA	Solid	8021B	39177
LCS 880-39177/1-A	Lab Control Sample	Total/NA	Solid	8021B	39177
LCSD 880-39177/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39177
880-21410-21 MS	BH12	Total/NA	Solid	8021B	39177

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

GC VOA (Continued)

Analysis Batch: 39277 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-21 MSD	BH12	Total/NA	Solid	8021B	39177

Prep Batch: 39278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-7	SW07	Total/NA	Solid	5035	
880-21410-8	SW08	Total/NA	Solid	5035	
880-21410-9	SW09	Total/NA	Solid	5035	
880-21410-10	BH01	Total/NA	Solid	5035	
880-21410-11	BH02	Total/NA	Solid	5035	
880-21410-12	BH03	Total/NA	Solid	5035	
880-21410-13	BH04	Total/NA	Solid	5035	
880-21410-14	BH05	Total/NA	Solid	5035	
880-21410-15	BH06	Total/NA	Solid	5035	
880-21410-16	BH07	Total/NA	Solid	5035	
880-21410-17	BH08	Total/NA	Solid	5035	
880-21410-18	BH09	Total/NA	Solid	5035	
880-21410-19	BH10	Total/NA	Solid	5035	
880-21410-20	BH11	Total/NA	Solid	5035	
MB 880-39278/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39278/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39278/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21410-7 MS	SW07	Total/NA	Solid	5035	
880-21410-7 MSD	SW07	Total/NA	Solid	5035	

Analysis Batch: 39279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-7	SW07	Total/NA	Solid	8021B	39278
880-21410-8	SW08	Total/NA	Solid	8021B	39278
880-21410-9	SW09	Total/NA	Solid	8021B	39278
880-21410-10	BH01	Total/NA	Solid	8021B	39278
880-21410-11	BH02	Total/NA	Solid	8021B	39278
880-21410-12	BH03	Total/NA	Solid	8021B	39278
880-21410-13	BH04	Total/NA	Solid	8021B	39278
880-21410-14	BH05	Total/NA	Solid	8021B	39278
880-21410-15	BH06	Total/NA	Solid	8021B	39278
880-21410-16	BH07	Total/NA	Solid	8021B	39278
880-21410-17	BH08	Total/NA	Solid	8021B	39278
880-21410-18	BH09	Total/NA	Solid	8021B	39278
880-21410-19	BH10	Total/NA	Solid	8021B	39278
880-21410-20	BH11	Total/NA	Solid	8021B	39278
MB 880-39278/5-A	Method Blank	Total/NA	Solid	8021B	39278
LCS 880-39278/1-A	Lab Control Sample	Total/NA	Solid	8021B	39278
LCSD 880-39278/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39278
880-21410-7 MS	SW07	Total/NA	Solid	8021B	39278
880-21410-7 MSD	SW07	Total/NA	Solid	8021B	39278

GC Semi VOA

Analysis Batch: 39162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-21	BH12	Total/NA	Solid	8015B NM	39171

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

GC Semi VOA (Continued)

Analysis Batch: 39162 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-22	BH13	Total/NA	Solid	8015B NM	39171
880-21410-23	BH14	Total/NA	Solid	8015B NM	39171
880-21410-24	BH15	Total/NA	Solid	8015B NM	39171
880-21410-25	BH16	Total/NA	Solid	8015B NM	39171
880-21410-26	BH17	Total/NA	Solid	8015B NM	39171
880-21410-27	BH18	Total/NA	Solid	8015B NM	39171
880-21410-28	BH19	Total/NA	Solid	8015B NM	39171
880-21410-29	BH20	Total/NA	Solid	8015B NM	39171
880-21410-30	BH21	Total/NA	Solid	8015B NM	39171
880-21410-31	BH22	Total/NA	Solid	8015B NM	39171
880-21410-32	BH23	Total/NA	Solid	8015B NM	39171
880-21410-33	BH24	Total/NA	Solid	8015B NM	39171
MB 880-39171/1-A	Method Blank	Total/NA	Solid	8015B NM	39171
LCS 880-39171/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39171
LCSD 880-39171/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39171
880-21410-21 MS	BH12	Total/NA	Solid	8015B NM	39171
880-21410-21 MSD	BH12	Total/NA	Solid	8015B NM	39171

Analysis Batch: 39164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-1	SW01	Total/NA	Solid	8015B NM	39170
880-21410-2	SW02	Total/NA	Solid	8015B NM	39170
880-21410-3	SW03	Total/NA	Solid	8015B NM	39170
880-21410-4	SW04	Total/NA	Solid	8015B NM	39170
880-21410-5	SW05	Total/NA	Solid	8015B NM	39170
880-21410-6	SW06	Total/NA	Solid	8015B NM	39170
880-21410-7	SW07	Total/NA	Solid	8015B NM	39170
880-21410-8	SW08	Total/NA	Solid	8015B NM	39170
880-21410-9	SW09	Total/NA	Solid	8015B NM	39170
880-21410-10	BH01	Total/NA	Solid	8015B NM	39170
880-21410-11	BH02	Total/NA	Solid	8015B NM	39170
880-21410-12	BH03	Total/NA	Solid	8015B NM	39170
880-21410-13	BH04	Total/NA	Solid	8015B NM	39170
880-21410-14	BH05	Total/NA	Solid	8015B NM	39170
880-21410-15	BH06	Total/NA	Solid	8015B NM	39170
880-21410-16	BH07	Total/NA	Solid	8015B NM	39170
880-21410-17	BH08	Total/NA	Solid	8015B NM	39170
880-21410-18	BH09	Total/NA	Solid	8015B NM	39170
880-21410-19	BH10	Total/NA	Solid	8015B NM	39170
880-21410-20	BH11	Total/NA	Solid	8015B NM	39170
MB 880-39170/1-A	Method Blank	Total/NA	Solid	8015B NM	39170
LCS 880-39170/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39170
LCSD 880-39170/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39170
880-21410-1 MS	SW01	Total/NA	Solid	8015B NM	39170
880-21410-1 MSD	SW01	Total/NA	Solid	8015B NM	39170

Prep Batch: 39170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-1	SW01	Total/NA	Solid	8015NM Prep	
880-21410-2	SW02	Total/NA	Solid	8015NM Prep	
880-21410-3	SW03	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

GC Semi VOA (Continued)

Prep Batch: 39170 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-4	SW04	Total/NA	Solid	8015NM Prep	
880-21410-5	SW05	Total/NA	Solid	8015NM Prep	
880-21410-6	SW06	Total/NA	Solid	8015NM Prep	
880-21410-7	SW07	Total/NA	Solid	8015NM Prep	
880-21410-8	SW08	Total/NA	Solid	8015NM Prep	
880-21410-9	SW09	Total/NA	Solid	8015NM Prep	
880-21410-10	BH01	Total/NA	Solid	8015NM Prep	
880-21410-11	BH02	Total/NA	Solid	8015NM Prep	
880-21410-12	BH03	Total/NA	Solid	8015NM Prep	
880-21410-13	BH04	Total/NA	Solid	8015NM Prep	
880-21410-14	BH05	Total/NA	Solid	8015NM Prep	
880-21410-15	BH06	Total/NA	Solid	8015NM Prep	
880-21410-16	BH07	Total/NA	Solid	8015NM Prep	
880-21410-17	BH08	Total/NA	Solid	8015NM Prep	
880-21410-18	BH09	Total/NA	Solid	8015NM Prep	
880-21410-19	BH10	Total/NA	Solid	8015NM Prep	
880-21410-20	BH11	Total/NA	Solid	8015NM Prep	
MB 880-39170/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39170/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39170/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21410-1 MS	SW01	Total/NA	Solid	8015NM Prep	
880-21410-1 MSD	SW01	Total/NA	Solid	8015NM Prep	

Prep Batch: 39171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-21	BH12	Total/NA	Solid	8015NM Prep	
880-21410-22	BH13	Total/NA	Solid	8015NM Prep	
880-21410-23	BH14	Total/NA	Solid	8015NM Prep	
880-21410-24	BH15	Total/NA	Solid	8015NM Prep	
880-21410-25	BH16	Total/NA	Solid	8015NM Prep	
880-21410-26	BH17	Total/NA	Solid	8015NM Prep	
880-21410-27	BH18	Total/NA	Solid	8015NM Prep	
880-21410-28	BH19	Total/NA	Solid	8015NM Prep	
880-21410-29	BH20	Total/NA	Solid	8015NM Prep	
880-21410-30	BH21	Total/NA	Solid	8015NM Prep	
880-21410-31	BH22	Total/NA	Solid	8015NM Prep	
880-21410-32	BH23	Total/NA	Solid	8015NM Prep	
880-21410-33	BH24	Total/NA	Solid	8015NM Prep	
MB 880-39171/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39171/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39171/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21410-21 MS	BH12	Total/NA	Solid	8015NM Prep	
880-21410-21 MSD	BH12	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-1	SW01	Total/NA	Solid	8015 NM	
880-21410-2	SW02	Total/NA	Solid	8015 NM	
880-21410-3	SW03	Total/NA	Solid	8015 NM	
880-21410-4	SW04	Total/NA	Solid	8015 NM	
880-21410-5	SW05	Total/NA	Solid	8015 NM	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

GC Semi VOA (Continued)

Analysis Batch: 39297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-6	SW06	Total/NA	Solid	8015 NM	
880-21410-7	SW07	Total/NA	Solid	8015 NM	
880-21410-8	SW08	Total/NA	Solid	8015 NM	
880-21410-9	SW09	Total/NA	Solid	8015 NM	
880-21410-10	BH01	Total/NA	Solid	8015 NM	
880-21410-11	BH02	Total/NA	Solid	8015 NM	
880-21410-12	BH03	Total/NA	Solid	8015 NM	
880-21410-13	BH04	Total/NA	Solid	8015 NM	
880-21410-14	BH05	Total/NA	Solid	8015 NM	
880-21410-15	BH06	Total/NA	Solid	8015 NM	
880-21410-16	BH07	Total/NA	Solid	8015 NM	
880-21410-17	BH08	Total/NA	Solid	8015 NM	
880-21410-18	BH09	Total/NA	Solid	8015 NM	
880-21410-19	BH10	Total/NA	Solid	8015 NM	
880-21410-20	BH11	Total/NA	Solid	8015 NM	
880-21410-21	BH12	Total/NA	Solid	8015 NM	
880-21410-22	BH13	Total/NA	Solid	8015 NM	
880-21410-23	BH14	Total/NA	Solid	8015 NM	
880-21410-24	BH15	Total/NA	Solid	8015 NM	
880-21410-25	BH16	Total/NA	Solid	8015 NM	
880-21410-26	BH17	Total/NA	Solid	8015 NM	
880-21410-27	BH18	Total/NA	Solid	8015 NM	
880-21410-28	BH19	Total/NA	Solid	8015 NM	
880-21410-29	BH20	Total/NA	Solid	8015 NM	
880-21410-30	BH21	Total/NA	Solid	8015 NM	
880-21410-31	BH22	Total/NA	Solid	8015 NM	
880-21410-32	BH23	Total/NA	Solid	8015 NM	
880-21410-33	BH24	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-21	BH12	Soluble	Solid	DI Leach	
880-21410-22	BH13	Soluble	Solid	DI Leach	
880-21410-23	BH14	Soluble	Solid	DI Leach	
880-21410-24	BH15	Soluble	Solid	DI Leach	
880-21410-25	BH16	Soluble	Solid	DI Leach	
880-21410-26	BH17	Soluble	Solid	DI Leach	
880-21410-27	BH18	Soluble	Solid	DI Leach	
880-21410-28	BH19	Soluble	Solid	DI Leach	
880-21410-29	BH20	Soluble	Solid	DI Leach	
880-21410-30	BH21	Soluble	Solid	DI Leach	
880-21410-31	BH22	Soluble	Solid	DI Leach	
880-21410-32	BH23	Soluble	Solid	DI Leach	
880-21410-33	BH24	Soluble	Solid	DI Leach	
MB 880-39169/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39169/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39169/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21410-24 MS	BH15	Soluble	Solid	DI Leach	
880-21410-24 MSD	BH15	Soluble	Solid	DI Leach	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

HPLC/IC

Leach Batch: 39175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-1	SW01	Soluble	Solid	DI Leach	
880-21410-2	SW02	Soluble	Solid	DI Leach	
880-21410-3	SW03	Soluble	Solid	DI Leach	
880-21410-4	SW04	Soluble	Solid	DI Leach	
880-21410-5	SW05	Soluble	Solid	DI Leach	
880-21410-6	SW06	Soluble	Solid	DI Leach	
880-21410-7	SW07	Soluble	Solid	DI Leach	
880-21410-8	SW08	Soluble	Solid	DI Leach	
880-21410-9	SW09	Soluble	Solid	DI Leach	
880-21410-10	BH01	Soluble	Solid	DI Leach	
880-21410-11	BH02	Soluble	Solid	DI Leach	
880-21410-12	BH03	Soluble	Solid	DI Leach	
880-21410-13	BH04	Soluble	Solid	DI Leach	
880-21410-14	BH05	Soluble	Solid	DI Leach	
880-21410-15	BH06	Soluble	Solid	DI Leach	
880-21410-16	BH07	Soluble	Solid	DI Leach	
880-21410-17	BH08	Soluble	Solid	DI Leach	
880-21410-18	BH09	Soluble	Solid	DI Leach	
880-21410-19	BH10	Soluble	Solid	DI Leach	
880-21410-20	BH11	Soluble	Solid	DI Leach	
MB 880-39175/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39175/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39175/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-21410-1 MS	SW01	Soluble	Solid	DI Leach	
880-21410-1 MSD	SW01	Soluble	Solid	DI Leach	
880-21410-11 MS	BH02	Soluble	Solid	DI Leach	
880-21410-11 MSD	BH02	Soluble	Solid	DI Leach	

Analysis Batch: 39241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-1	SW01	Soluble	Solid	300.0	39175
880-21410-2	SW02	Soluble	Solid	300.0	39175
880-21410-3	SW03	Soluble	Solid	300.0	39175
880-21410-4	SW04	Soluble	Solid	300.0	39175
880-21410-5	SW05	Soluble	Solid	300.0	39175
880-21410-6	SW06	Soluble	Solid	300.0	39175
880-21410-7	SW07	Soluble	Solid	300.0	39175
880-21410-8	SW08	Soluble	Solid	300.0	39175
880-21410-9	SW09	Soluble	Solid	300.0	39175
880-21410-10	BH01	Soluble	Solid	300.0	39175
880-21410-11	BH02	Soluble	Solid	300.0	39175
880-21410-12	BH03	Soluble	Solid	300.0	39175
880-21410-13	BH04	Soluble	Solid	300.0	39175
880-21410-14	BH05	Soluble	Solid	300.0	39175
880-21410-15	BH06	Soluble	Solid	300.0	39175
880-21410-16	BH07	Soluble	Solid	300.0	39175
880-21410-17	BH08	Soluble	Solid	300.0	39175
880-21410-18	BH09	Soluble	Solid	300.0	39175
880-21410-19	BH10	Soluble	Solid	300.0	39175
880-21410-20	BH11	Soluble	Solid	300.0	39175
MB 880-39175/1-A	Method Blank	Soluble	Solid	300.0	39175

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

HPLC/IC (Continued)

Analysis Batch: 39241 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-39175/2-A	Lab Control Sample	Soluble	Solid	300.0	39175
LCSD 880-39175/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39175
880-21410-1 MS	SW01	Soluble	Solid	300.0	39175
880-21410-1 MSD	SW01	Soluble	Solid	300.0	39175
880-21410-11 MS	BH02	Soluble	Solid	300.0	39175
880-21410-11 MSD	BH02	Soluble	Solid	300.0	39175

Analysis Batch: 39242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21410-21	BH12	Soluble	Solid	300.0	39169
880-21410-22	BH13	Soluble	Solid	300.0	39169
880-21410-23	BH14	Soluble	Solid	300.0	39169
880-21410-24	BH15	Soluble	Solid	300.0	39169
880-21410-25	BH16	Soluble	Solid	300.0	39169
880-21410-26	BH17	Soluble	Solid	300.0	39169
880-21410-27	BH18	Soluble	Solid	300.0	39169
880-21410-28	BH19	Soluble	Solid	300.0	39169
880-21410-29	BH20	Soluble	Solid	300.0	39169
880-21410-30	BH21	Soluble	Solid	300.0	39169
880-21410-31	BH22	Soluble	Solid	300.0	39169
880-21410-32	BH23	Soluble	Solid	300.0	39169
880-21410-33	BH24	Soluble	Solid	300.0	39169
MB 880-39169/1-A	Method Blank	Soluble	Solid	300.0	39169
LCS 880-39169/2-A	Lab Control Sample	Soluble	Solid	300.0	39169
LCSD 880-39169/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39169
880-21410-24 MS	BH15	Soluble	Solid	300.0	39169
880-21410-24 MSD	BH15	Soluble	Solid	300.0	39169

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: SW01
Lab Sample ID: 880-21410-1
Date Collected: 11/08/22 08:28
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39173	11/10/22 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39168	11/10/22 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/10/22 16:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/10/22 22:07	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		5			39241	11/10/22 17:18	CH	EET MID

Client Sample ID: SW02
Lab Sample ID: 880-21410-2
Date Collected: 11/08/22 10:16
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39173	11/10/22 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39168	11/10/22 12:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/10/22 16:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/10/22 23:12	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		20			39241	11/10/22 17:33	CH	EET MID

Client Sample ID: SW03
Lab Sample ID: 880-21410-3
Date Collected: 11/08/22 10:17
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39173	11/10/22 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39168	11/10/22 12:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/10/22 16:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/10/22 23:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		1			39241	11/10/22 17:38	CH	EET MID

Client Sample ID: SW04
Lab Sample ID: 880-21410-4
Date Collected: 11/08/22 10:18
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39173	11/10/22 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39168	11/10/22 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/10/22 16:52	SM	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: SW04
Lab Sample ID: 880-21410-4
Date Collected: 11/08/22 10:18
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/10/22 23:55	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		1			39241	11/10/22 17:43	CH	EET MID

Client Sample ID: SW05
Lab Sample ID: 880-21410-5
Date Collected: 11/08/22 10:19
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39173	11/10/22 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39168	11/10/22 15:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/10/22 16:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 00:16	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		1			39241	11/10/22 17:48	CH	EET MID

Client Sample ID: SW06
Lab Sample ID: 880-21410-6
Date Collected: 11/08/22 10:20
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39173	11/10/22 08:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39168	11/10/22 16:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/10/22 16:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 00:38	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		5			39241	11/10/22 18:03	CH	EET MID

Client Sample ID: SW07
Lab Sample ID: 880-21410-7
Date Collected: 11/08/22 10:22
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 11:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 15:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 00:59	SM	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: SW07
Lab Sample ID: 880-21410-7
Date Collected: 11/08/22 10:22
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		1			39241	11/10/22 18:08	CH	EET MID

Client Sample ID: SW08
Lab Sample ID: 880-21410-8
Date Collected: 11/08/22 10:22
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 15:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 01:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		10			39241	11/10/22 18:13	CH	EET MID

Client Sample ID: SW09
Lab Sample ID: 880-21410-9
Date Collected: 11/08/22 10:24
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 15:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 01:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		10			39241	11/10/22 18:18	CH	EET MID

Client Sample ID: BH01
Lab Sample ID: 880-21410-10
Date Collected: 11/08/22 10:58
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 13:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 15:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 02:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		20			39241	11/10/22 18:22	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH02
Lab Sample ID: 880-21410-11
Date Collected: 11/08/22 10:58
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 15:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 17:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 02:48	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		10			39241	11/10/22 18:28	CH	EET MID

Client Sample ID: BH03
Lab Sample ID: 880-21410-12
Date Collected: 11/08/22 11:00
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 15:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 17:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 03:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		5			39241	11/10/22 18:42	CH	EET MID

Client Sample ID: BH04
Lab Sample ID: 880-21410-13
Date Collected: 11/08/22 11:01
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 03:32	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		5			39241	11/10/22 18:47	CH	EET MID

Client Sample ID: BH05
Lab Sample ID: 880-21410-14
Date Collected: 11/08/22 11:03
Matrix: Solid
Date Received: 11/09/22 16:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 12:13	SM	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH05
Date Collected: 11/08/22 11:03
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 03:54	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		10			39241	11/10/22 19:02	CH	EET MID

Client Sample ID: BH06
Date Collected: 11/08/22 11:05
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 18:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 04:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		5			39241	11/10/22 19:07	CH	EET MID

Client Sample ID: BH07
Date Collected: 11/08/22 11:06
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 04:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		10			39241	11/10/22 19:12	CH	EET MID

Client Sample ID: BH08
Date Collected: 11/08/22 11:08
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 19:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 04:59	SM	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH08
Date Collected: 11/08/22 11:08
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		1			39241	11/10/22 19:17	CH	EET MID

Client Sample ID: BH09
Date Collected: 11/08/22 11:09
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 05:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		1			39241	11/10/22 19:22	CH	EET MID

Client Sample ID: BH10
Date Collected: 11/08/22 11:11
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 20:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 05:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		1			39241	11/10/22 19:27	CH	EET MID

Client Sample ID: BH11
Date Collected: 11/08/22 11:12
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39278	11/11/22 07:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39279	11/11/22 20:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39170	11/10/22 08:42	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39164	11/11/22 06:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39175	11/10/22 08:54	KS	EET MID
Soluble	Analysis	300.0		5			39241	11/10/22 19:32	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH12

Lab Sample ID: 880-21410-21

Date Collected: 11/08/22 11:13
Date Received: 11/09/22 16:41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/10/22 22:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		10			39242	11/10/22 23:26	CH	EET MID

Client Sample ID: BH13

Lab Sample ID: 880-21410-22

Date Collected: 11/08/22 11:15
Date Received: 11/09/22 16:41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/10/22 23:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		1			39242	11/10/22 23:31	CH	EET MID

Client Sample ID: BH14

Lab Sample ID: 880-21410-23

Date Collected: 11/08/22 11:16
Date Received: 11/09/22 16:41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/10/22 23:33	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		5			39242	11/10/22 23:36	CH	EET MID

Client Sample ID: BH15

Lab Sample ID: 880-21410-24

Date Collected: 11/08/22 11:17
Date Received: 11/09/22 16:41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 14:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 15:07	SM	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH15
Date Collected: 11/08/22 11:17
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/10/22 23:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		5			39242	11/10/22 23:41	CH	EET MID

Client Sample ID: BH16
Date Collected: 11/08/22 11:18
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 14:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/11/22 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/11/22 00:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		5			39242	11/10/22 23:55	CH	EET MID

Client Sample ID: BH17
Date Collected: 11/08/22 11:19
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 14:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/11/22 00:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		1			39242	11/11/22 00:00	CH	EET MID

Client Sample ID: BH18
Date Collected: 11/08/22 11:20
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 15:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/11/22 00:59	SM	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH18
Date Collected: 11/08/22 11:20
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		5			39242	11/11/22 00:15	CH	EET MID

Client Sample ID: BH19
Date Collected: 11/08/22 11:22
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 15:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/11/22 01:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		5			39242	11/11/22 00:20	CH	EET MID

Client Sample ID: BH20
Date Collected: 11/08/22 11:23
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 15:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/11/22 01:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		5			39242	11/11/22 00:25	CH	EET MID

Client Sample ID: BH21
Date Collected: 11/08/22 11:24
Date Received: 11/09/22 16:41

Lab Sample ID: 880-21410-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/11/22 02:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		5			39242	11/11/22 00:30	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Client Sample ID: BH22

Lab Sample ID: 880-21410-31

Date Collected: 11/08/22 11:25
Date Received: 11/09/22 16:41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/11/22 02:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		5			39242	11/11/22 00:35	CH	EET MID

Client Sample ID: BH23

Lab Sample ID: 880-21410-32

Date Collected: 11/08/22 11:25
Date Received: 11/09/22 16:41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 18:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/11/22 03:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		5			39242	11/11/22 00:40	CH	EET MID

Client Sample ID: BH24

Lab Sample ID: 880-21410-33

Date Collected: 11/08/22 11:26
Date Received: 11/09/22 16:41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39177	11/10/22 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39277	11/11/22 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39264	11/14/22 11:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			39297	11/11/22 09:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39171	11/10/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39162	11/11/22 03:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39169	11/10/22 08:39	KS	EET MID
Soluble	Analysis	300.0		5			39242	11/11/22 00:45	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Delek BC Berry

Job ID: 880-21410-1
SDG: 12597046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21410-1	SW01	Solid	11/08/22 08:28	11/09/22 16:41
880-21410-2	SW02	Solid	11/08/22 10:16	11/09/22 16:41
880-21410-3	SW03	Solid	11/08/22 10:17	11/09/22 16:41
880-21410-4	SW04	Solid	11/08/22 10:18	11/09/22 16:41
880-21410-5	SW05	Solid	11/08/22 10:19	11/09/22 16:41
880-21410-6	SW06	Solid	11/08/22 10:20	11/09/22 16:41
880-21410-7	SW07	Solid	11/08/22 10:22	11/09/22 16:41
880-21410-8	SW08	Solid	11/08/22 10:22	11/09/22 16:41
880-21410-9	SW09	Solid	11/08/22 10:24	11/09/22 16:41
880-21410-10	BH01	Solid	11/08/22 10:58	11/09/22 16:41
880-21410-11	BH02	Solid	11/08/22 10:58	11/09/22 16:41
880-21410-12	BH03	Solid	11/08/22 11:00	11/09/22 16:41
880-21410-13	BH04	Solid	11/08/22 11:01	11/09/22 16:41
880-21410-14	BH05	Solid	11/08/22 11:03	11/09/22 16:41
880-21410-15	BH06	Solid	11/08/22 11:05	11/09/22 16:41
880-21410-16	BH07	Solid	11/08/22 11:06	11/09/22 16:41
880-21410-17	BH08	Solid	11/08/22 11:08	11/09/22 16:41
880-21410-18	BH09	Solid	11/08/22 11:09	11/09/22 16:41
880-21410-19	BH10	Solid	11/08/22 11:11	11/09/22 16:41
880-21410-20	BH11	Solid	11/08/22 11:12	11/09/22 16:41
880-21410-21	BH12	Solid	11/08/22 11:13	11/09/22 16:41
880-21410-22	BH13	Solid	11/08/22 11:15	11/09/22 16:41
880-21410-23	BH14	Solid	11/08/22 11:16	11/09/22 16:41
880-21410-24	BH15	Solid	11/08/22 11:17	11/09/22 16:41
880-21410-25	BH16	Solid	11/08/22 11:18	11/09/22 16:41
880-21410-26	BH17	Solid	11/08/22 11:19	11/09/22 16:41
880-21410-27	BH18	Solid	11/08/22 11:20	11/09/22 16:41
880-21410-28	BH19	Solid	11/08/22 11:22	11/09/22 16:41
880-21410-29	BH20	Solid	11/08/22 11:23	11/09/22 16:41
880-21410-30	BH21	Solid	11/08/22 11:24	11/09/22 16:41
880-21410-31	BH22	Solid	11/08/22 11:25	11/09/22 16:41
880-21410-32	BH23	Solid	11/08/22 11:25	11/09/22 16:41
880-21410-33	BH24	Solid	11/08/22 11:26	11/09/22 16:41

21410

Chain of Custody Record

eurofins | Environment Testing America

11/15/2022

SSOW SSOW-12597046-2022-001

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other NMOCD

Eurofins Environment Testing America

Client Contact	Project Manager: J.T. Murrey	Site Contact.	Date:	COC No
GHD Services	Email jt.murrey@ghd.com	Lab Contact:	Carrier:	1 of 3 COCs
2135 S Loop 250 West	Tel/Fax:			TALS Project #
Midland, TX 79703	Analysis Turnaround Time			Sampler JTM
361-252-6136	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below _____			Walk-in Client
Project Name Delek BC Berry	☐ 2 weeks			Lab Sampling
Site	☑ 1 week			
P O # 340-008513	☐ 2 days			Job / SDG No
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH 8015 - GRO/DRO/MRO	BTEX 8021	Chlorides	Sample Specific Notes
SW01	11/8/2022	8 28	C	SO	1			X	X	X	
SW02	11/8/2022	10 16	C	SO	1			X	X	X	
SW03	11/8/2022	10 17	C	SO	1			X	X	X	
SW04	11/8/2022	10 18	C	SO	1			X	X	X	
SW05	11/8/2022	10 19	C	SO	1			X	X	X	
SW06	11/8/2022	10 20	C	SO	1			X	X	X	
SW07	11/8/2022	10 22	C	SO	1			X	X	X	
SW08	11/8/2022	10 22	C	SO	1			X	X	X	
SW09	11/8/2022	10 24	C	SO	1			X	X	X	
BH01	11/8/2022	10 58	C	SO	1			X	X	X	
BH02	11/8/2022	10 58	C	SO	1			X	X	X	
BH03	11/8/2022	11 00	C	SO	1			X	X	X	

880-21410 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: 4.3/40

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd. _____ Therm ID No _____		
Relinquished by	Company GHD	Date/Time 11/9/22 1641	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Received by OCD: 7/24/2023 10:28:31 AM

Released to Imaging: 1/31/2024 4:48:07 PM

21410

Chain of Custody Record

eurofins Environment Testing America

11/15/2022

SSOW SSOW-12597046-2022-001

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other NMOCD

Eurofins Environment Testing America

COC No 2 of 3 COCs

TALS Project #

Sampler JTM

For Lab Use Only:
Walk-in Client
Lab Sampling

Job / SDG No

Client Contact	Project Manager: J.T. Murrey	Site Contact	Date:
GHD Services	Email jt.murrey@ghd.com	Lab Contact.	Carrier:
2135 S Loop 250 West	Tel/Fax:		
Midland, TX 79703			
361-252-6136			
(xxx) xxx-xxxx FAX			
Project Name Delek BC Berry			
Site			
P O #.340-008513			

Analysis Turnaround Time
☐ CALENDAR DAYS ☑ WORKING DAYS
TAT if different from Below _____
☐ 2 weeks
☑ 1 week
☐ 2 days
☐ 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH 8015 - GRO/DRO/MRO	BTEX 8021	Chlorides	Sample Specific Notes
BH04	11/8/2022	11 01	C	SO	1			X	X	X	
BH05	11/8/2022	11 03	C	SO	1			X	X	X	
BH06	11/8/2022	11 05	C	SO	1			X	X	X	
BH07	11/8/2022	11 06	C	SO	1			X	X	X	
BH08	11/8/2022	11 08	C	SO	1			X	X	X	
BH09	11/8/2022	11 09	C	SO	1			X	X	X	
BH10	11/8/2022	11 11	C	SO	1			X	X	X	
BH11	11/8/2022	11 12	C	SO	1			X	X	X	
BH12	11/8/2022	11 13	C	SO	1			X	X	X	
BH13	11/8/2022	11 15	C	SO	1			X	X	X	
BH14	11/8/2022	11 16	C	SO	1			X	X	X	
BH15	11/8/2022	11 17	C	SO	1			X	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd. _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
	GHD	11/9/22			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Received by OCD: 7/24/2023 10:28:31 AM

Released to Imaging: 1/31/2024 4:48:09 PM

21410

Chain of Custody Record

eurofins | Environment Testing America

11/15/2022

SSOW SSOW-12597046-2022-001

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other **NMOCD**

Eurofins Environment Testing America

Client Contact	Project Manager: J.T. Murrey	Site Contact:	Date.	COC No
GHD Services	Email jt.murrey@ghd com	Lab Contact:	Carrier:	3 of 3 COCs
2135 S Loop 250 West	Tel/Fax:			TALS Project #
Midland, TX 79703	Analysis Turnaround Time			Sampler JTM
361-252-6136	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below _____			Walk-in Client
Project Name Delek BC Berry	☐ 2 weeks			Lab Sampling
Site	☑ 1 week			
P O # 340-008513	☐ 2 days			Job / SDG No
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TPH 8015 - GRO/DRO/MRO	BTEX 8021	Chlorides	Sample Specific Notes
BH16	11/8/2022	11 18	C	SO	1			X	X	X	
BH17	11/8/2022	11 19	C	SO	1			X	X	X	
BH18	11/8/2022	11 20	C	SO	1			X	X	X	
BH19	11/8/2022	11 22	C	SO	1			X	X	X	
BH20	11/8/2022	11 23	C	SO	1			X	X	X	
BH21	11/8/2022	11 24	C	SO	1			X	X	X	
BH22	11/8/2022	11 25	C	SO	1			X	X	X	
BH23	11/8/2022	11 25	C	SO	1			X	X	X	
BH24	11/8/2022	11 26	C	SO	1			X	X	X	

Loc: 880
21410

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No | Cooler Temp (°C) Obs'd. _____ Corr'd _____ Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	GHD	11/9/22 1600	[signature]	~~Company:~~	
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company	Date/Time

Received by OCD: 7/24/2023 10:28:31 AM

Released to Imaging: 11/30/2023 8:08:47 AM

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-21410-1
SDG Number: 12597046

Login Number: 21410
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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11/15/2022 5:35:18 PM

Authorized for release by
Debbie Simmons, Project Manager
Debbie.Simmons@et.eurofinsus.com
(832)986-6768

Received by OCD: 7/24/2023 10:28:31 AM

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: James (J.T.) Murrey
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Generated 12/28/2022 1:17:59 PM

JOB DESCRIPTION

Delek - BC Berry
SDG NUMBER 12597046

JOB NUMBER

880-22829-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/31/2024 4:48:02 PM

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
12/28/2022 1:17:59 PM

Authorized for release by
Debbie Simmons, Project Manager
Debbie.Simmons@et.eurofinsus.com
(832)986-6768

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 23
QC Sample Results 25
QC Association Summary 35
Lab Chronicle 41
Certification Summary 47
Method Summary 48
Sample Summary 49
Chain of Custody 50
Receipt Checklists 52

Released to Imaging: 1/31/2024 4:48:02 PM

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Job ID: 880-22829-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-22829-1

Comments
No additional comments.

Receipt
The samples were received on 12/16/2022 12:25 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.5º C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH1A (880-22829-1), SW01A (880-22829-2), BH05A (880-22829-3), SW02A (880-22829-4), BH02A (880-22829-5), BH07A (880-22829-6), BH08A (880-22829-7), BH11A (880-22829-8), SW03A (880-22829-9), BH06A (880-22829-10), BH12A (880-22829-11), BH15A (880-22829-12), SW06A (880-22829-13), BH23A (880-22829-14), SW08A (880-22829-15), SW09A (880-22829-16), SW10A (880-22829-17), BH26 (880-22829-18) and BH25 (880-22829-19).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-42368 recovered above the upper control limit. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The CCV was biased low however since another CCV was acceptable within the 12 hour period and the internal standards were acceptable in the meantime, it was determined the failing CCV was a bad injection.

(CCV 880-42466/51)

Method 8021B: The CCV was biased low however since another CCV was acceptable within the 12 hour period and the internal standards were acceptable in the meantime, it was determined the failing CCV was a bad injection.

(CCV 880-42465/33)

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-42665 and analytical batch 880-42705 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-42705 recovered below the lower control limit. The samples associated with this CCV were ran within 12hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW08A (880-22829-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-42030 and analytical batch 880-42110 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-42030/3-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: BH11A (880-22829-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: The method blank for preparation batch 880-42030 and analytical batch 880-42110 contained OII Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore,

Case Narrative

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Job ID: 880-22829-1 (Continued)

Laboratory: Eurofins Midland (Continued)

re-extraction and/or re-analysis of samples was not performed.

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-42030 and analytical batch 880-42110 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-42029 and analytical batch 880-42059 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH1A

Lab Sample ID: 880-22829-1
Matrix: Solid

Date Collected: 12/15/22 12:48
Date Received: 12/16/22 12:25
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/22/22 09:05	12/23/22 09:15	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/22/22 09:05	12/23/22 09:15	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/22/22 09:05	12/23/22 09:15	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/22/22 09:05	12/23/22 09:15	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/22/22 09:05	12/23/22 09:15	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/22/22 09:05	12/23/22 09:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*12/22/22 09:05*	*12/23/22 09:15*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/22/22 09:05*	*12/23/22 09:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/23/22 17:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**157**		50.0	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**25.6**	**J *1**	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 12:27	1
Diesel Range Organics (Over C10-C28)	**110**		50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 12:27	1
Oil Range Organics (Over C28-C36)	**20.9**	**J B**	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*12/16/22 13:29*	*12/18/22 12:27*	*1*
o-Terphenyl	*114*		*70 - 130*	*12/16/22 13:29*	*12/18/22 12:27*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3420**	**F1**	24.9	1.97	mg/Kg			12/19/22 22:31	5

Client Sample ID: SW01A

Lab Sample ID: 880-22829-2
Matrix: Solid

Date Collected: 12/15/22 12:50
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/22/22 09:05	12/23/22 09:35	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/22/22 09:05	12/23/22 09:35	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/22/22 09:05	12/23/22 09:35	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/22/22 09:05	12/23/22 09:35	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/22/22 09:05	12/23/22 09:35	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/22/22 09:05	12/23/22 09:35	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: SW01A
Date Collected: 12/15/22 12:50
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Lab Sample ID: 880-22829-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	12/22/22 09:05	12/23/22 09:35	1
1,4-Difluorobenzene (Surr)	96		70 - 130	12/22/22 09:05	12/23/22 09:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/23/22 17:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**33.5**	**J**	49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**33.5**	**J *1**	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 13:32	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 13:32	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	12/16/22 13:29	12/18/22 13:32	1
o-Terphenyl	121		70 - 130	12/16/22 13:29	12/18/22 13:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**206**		4.97	0.393	mg/Kg			12/19/22 22:50	1

Client Sample ID: BH05A
Date Collected: 12/15/22 12:52
Date Received: 12/16/22 12:25
Sample Depth: 3

Lab Sample ID: 880-22829-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/22/22 09:05	12/23/22 09:55	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/22/22 09:05	12/23/22 09:55	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/22/22 09:05	12/23/22 09:55	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/22/22 09:05	12/23/22 09:55	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		12/22/22 09:05	12/23/22 09:55	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/22/22 09:05	12/23/22 09:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	12/22/22 09:05	12/23/22 09:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130	12/22/22 09:05	12/23/22 09:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/23/22 17:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.6**		49.9	15.0	mg/Kg			12/19/22 17:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH05A

Lab Sample ID: 880-22829-3
Matrix: Solid

Date Collected: 12/15/22 12:52
Date Received: 12/16/22 12:25
Sample Depth: 3

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.5	J *1	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 13:55	1
Diesel Range Organics (Over C10-C28)	18.1	J	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 13:55	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/16/22 13:29*	*12/18/22 13:55*	*1*
o-Terphenyl	*114*		*70 - 130*	*12/16/22 13:29*	*12/18/22 13:55*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	359		5.02	0.397	mg/Kg			12/19/22 22:57	1

Client Sample ID: SW02A

Lab Sample ID: 880-22829-4
Matrix: Solid

Date Collected: 12/15/22 13:04
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		12/22/22 09:05	12/23/22 10:16	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/22/22 09:05	12/23/22 10:16	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/22/22 09:05	12/23/22 10:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/22/22 09:05	12/23/22 10:16	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/22/22 09:05	12/23/22 10:16	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/22/22 09:05	12/23/22 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/22/22 09:05*	*12/23/22 10:16*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/22/22 09:05*	*12/23/22 10:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			12/23/22 17:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.0		50.0	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.5	J *1	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 14:17	1
Diesel Range Organics (Over C10-C28)	22.5	J	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 14:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*12/16/22 13:29*	*12/18/22 14:17*	*1*
o-Terphenyl	*117*		*70 - 130*	*12/16/22 13:29*	*12/18/22 14:17*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: SW02A

Lab Sample ID: 880-22829-4
Matrix: Solid

Date Collected: 12/15/22 13:04
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2660		25.1	1.98	mg/Kg			12/19/22 23:03	5

Client Sample ID: BH02A

Lab Sample ID: 880-22829-5
Matrix: Solid

Date Collected: 12/15/22 13:08
Date Received: 12/16/22 12:25
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		12/21/22 12:40	12/23/22 06:51	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		12/21/22 12:40	12/23/22 06:51	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		12/21/22 12:40	12/23/22 06:51	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		12/21/22 12:40	12/23/22 06:51	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		12/21/22 12:40	12/23/22 06:51	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		12/21/22 12:40	12/23/22 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*12/21/22 12:40*	*12/23/22 06:51*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/21/22 12:40*	*12/23/22 06:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00397	0.00100	mg/Kg			12/23/22 08:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	198		49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.9	J *1	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 14:39	1
Diesel Range Organics (Over C10-C28)	148		49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 14:39	1
Oil Range Organics (Over C28-C36)	22.2	J B	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*12/16/22 13:29*	*12/18/22 14:39*	*1*
o-Terphenyl	*113*		*70 - 130*	*12/16/22 13:29*	*12/18/22 14:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2260		24.9	1.97	mg/Kg			12/19/22 23:10	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH07A

Lab Sample ID: 880-22829-6
Matrix: Solid

Date Collected: 12/15/22 13:12
Date Received: 12/16/22 12:25
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/20/22 15:23	12/21/22 18:38	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/20/22 15:23	12/21/22 18:38	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/20/22 15:23	12/21/22 18:38	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/20/22 15:23	12/21/22 18:38	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/20/22 15:23	12/21/22 18:38	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/20/22 15:23	12/21/22 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/20/22 15:23*	*12/21/22 18:38*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/20/22 15:23*	*12/21/22 18:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/22/22 08:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.8**		50.0	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**20.4**	**J *1**	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 15:01	1
Diesel Range Organics (Over C10-C28)	**35.4**	**J**	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 15:01	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*12/16/22 13:29*	*12/18/22 15:01*	*1*
o-Terphenyl	*120*		*70 - 130*	*12/16/22 13:29*	*12/18/22 15:01*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**990**		25.2	1.99	mg/Kg			12/19/22 23:29	5

Client Sample ID: BH08A

Lab Sample ID: 880-22829-7
Matrix: Solid

Date Collected: 12/15/22 13:13
Date Received: 12/16/22 12:25
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/20/22 15:23	12/21/22 18:58	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/20/22 15:23	12/21/22 18:58	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/20/22 15:23	12/21/22 18:58	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/20/22 15:23	12/21/22 18:58	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/20/22 15:23	12/21/22 18:58	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/20/22 15:23	12/21/22 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/20/22 15:23*	*12/21/22 18:58*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH08A

Lab Sample ID: 880-22829-7
Matrix: Solid

Date Collected: 12/15/22 13:13
Date Received: 12/16/22 12:25
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	12/20/22 15:23	12/21/22 18:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/22/22 08:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**31.7**	**J**	49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**31.7**	**J *1**	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 15:23	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 15:23	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 15:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	12/16/22 13:29	12/18/22 15:23	1
o-Terphenyl	110		70 - 130	12/16/22 13:29	12/18/22 15:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		4.96	0.392	mg/Kg			12/19/22 23:35	1

Client Sample ID: BH11A

Lab Sample ID: 880-22829-8
Matrix: Solid

Date Collected: 12/15/22 13:15
Date Received: 12/16/22 12:25
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		12/20/22 15:23	12/21/22 19:19	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		12/20/22 15:23	12/21/22 19:19	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		12/20/22 15:23	12/21/22 19:19	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		12/20/22 15:23	12/21/22 19:19	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		12/20/22 15:23	12/21/22 19:19	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		12/20/22 15:23	12/21/22 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	12/20/22 15:23	12/21/22 19:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/20/22 15:23	12/21/22 19:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			12/22/22 08:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**35.0**	**J**	50.0	15.0	mg/Kg			12/19/22 17:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH11A

Lab Sample ID: 880-22829-8
Matrix: Solid

Date Collected: 12/15/22 13:15
Date Received: 12/16/22 12:25
Sample Depth: 3

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.7	J *1	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 15:45	1
Diesel Range Organics (Over C10-C28)	15.3	J	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 15:45	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*12/16/22 13:29*	*12/18/22 15:45*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*12/16/22 13:29*	*12/18/22 15:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		4.99	0.394	mg/Kg			12/19/22 23:42	1

Client Sample ID: SW03A

Lab Sample ID: 880-22829-9
Matrix: Solid

Date Collected: 12/15/22 13:17
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		12/20/22 15:23	12/21/22 19:39	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		12/20/22 15:23	12/21/22 19:39	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		12/20/22 15:23	12/21/22 19:39	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		12/20/22 15:23	12/21/22 19:39	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		12/20/22 15:23	12/21/22 19:39	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		12/20/22 15:23	12/21/22 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/20/22 15:23*	*12/21/22 19:39*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/20/22 15:23*	*12/21/22 19:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			12/22/22 08:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.7	J	49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	49.7	J *1	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 16:07	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 16:07	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*12/16/22 13:29*	*12/18/22 16:07*	*1*
o-Terphenyl	*126*		*70 - 130*	*12/16/22 13:29*	*12/18/22 16:07*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: SW03A

Lab Sample ID: 880-22829-9
Matrix: Solid

Date Collected: 12/15/22 13:17
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	492		5.04	0.398	mg/Kg			12/19/22 23:48	1

Client Sample ID: BH06A

Lab Sample ID: 880-22829-10
Matrix: Solid

Date Collected: 12/15/22 13:24
Date Received: 12/16/22 12:25
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/20/22 15:23	12/21/22 20:00	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/20/22 15:23	12/21/22 20:00	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/20/22 15:23	12/21/22 20:00	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/20/22 15:23	12/21/22 20:00	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/20/22 15:23	12/21/22 20:00	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/20/22 15:23	12/21/22 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/20/22 15:23*	*12/21/22 20:00*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/20/22 15:23*	*12/21/22 20:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/22/22 08:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.9	J	49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.9	J *1	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 16:28	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 16:28	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/16/22 13:29*	*12/18/22 16:28*	*1*
o-Terphenyl	*116*		*70 - 130*	*12/16/22 13:29*	*12/18/22 16:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		4.95	0.391	mg/Kg			12/19/22 23:55	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH12A

Lab Sample ID: 880-22829-11
Matrix: Solid

Date Collected: 12/15/22 13:25
Date Received: 12/16/22 12:25
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/22/22 14:20	12/27/22 21:40	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/22/22 14:20	12/27/22 21:40	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/22/22 14:20	12/27/22 21:40	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/22/22 14:20	12/27/22 21:40	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/22/22 14:20	12/27/22 21:40	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/22/22 14:20	12/27/22 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/22/22 14:20*	*12/27/22 21:40*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*12/22/22 14:20*	*12/27/22 21:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/28/22 09:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**18.7**	**J**	50.0	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**18.7**	**J *1**	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 17:11	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 17:11	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*12/16/22 13:29*	*12/18/22 17:11*	*1*
o-Terphenyl	*129*		*70 - 130*	*12/16/22 13:29*	*12/18/22 17:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**205**		5.02	0.397	mg/Kg			12/20/22 00:01	1

Client Sample ID: BH15A

Lab Sample ID: 880-22829-12
Matrix: Solid

Date Collected: 12/15/22 13:27
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/22/22 14:30	12/27/22 19:18	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/22/22 14:30	12/27/22 19:18	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/22/22 14:30	12/27/22 19:18	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/22/22 14:30	12/27/22 19:18	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/22/22 14:30	12/27/22 19:18	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/22/22 14:30	12/27/22 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*12/22/22 14:30*	*12/27/22 19:18*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH15A
Date Collected: 12/15/22 13:27
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Lab Sample ID: 880-22829-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	12/22/22 14:30	12/27/22 19:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/28/22 10:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**47.3**	**J**	49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**31.0**	**J *1**	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 17:33	1
Diesel Range Organics (Over C10-C28)	**16.3**	**J**	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 17:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	12/16/22 13:29	12/18/22 17:33	1
o-Terphenyl	114		70 - 130	12/16/22 13:29	12/18/22 17:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**382**		24.9	1.97	mg/Kg			12/20/22 00:20	5

Client Sample ID: SW06A
Date Collected: 12/15/22 13:31
Date Received: 12/16/22 12:25
Sample Depth: 3

Lab Sample ID: 880-22829-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		12/22/22 14:30	12/27/22 19:39	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		12/22/22 14:30	12/27/22 19:39	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		12/22/22 14:30	12/27/22 19:39	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		12/22/22 14:30	12/27/22 19:39	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		12/22/22 14:30	12/27/22 19:39	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		12/22/22 14:30	12/27/22 19:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	12/22/22 14:30	12/27/22 19:39	1
1,4-Difluorobenzene (Surr)	106		70 - 130	12/22/22 14:30	12/27/22 19:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			12/28/22 10:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.1**		49.9	15.0	mg/Kg			12/19/22 17:07	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: SW06A

Lab Sample ID: 880-22829-13
Matrix: Solid

Date Collected: 12/15/22 13:31
Date Received: 12/16/22 12:25
Sample Depth: 3

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.9	J *1	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 17:55	1
Diesel Range Organics (Over C10-C28)	21.2	J	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 17:55	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*12/16/22 13:29*	*12/18/22 17:55*	*1*
o-Terphenyl	*113*		*70 - 130*	*12/16/22 13:29*	*12/18/22 17:55*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1230		25.0	1.98	mg/Kg			12/20/22 00:27	5

Client Sample ID: BH23A

Lab Sample ID: 880-22829-14
Matrix: Solid

Date Collected: 12/15/22 13:33
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		12/22/22 14:30	12/27/22 19:59	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/22/22 14:30	12/27/22 19:59	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/22/22 14:30	12/27/22 19:59	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/22/22 14:30	12/27/22 19:59	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/22/22 14:30	12/27/22 19:59	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/22/22 14:30	12/27/22 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*12/22/22 14:30*	*12/27/22 19:59*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*12/22/22 14:30*	*12/27/22 19:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			12/28/22 10:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.1	J	49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.1	J *1	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 18:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 18:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*12/16/22 13:29*	*12/18/22 18:17*	*1*
o-Terphenyl	*120*		*70 - 130*	*12/16/22 13:29*	*12/18/22 18:17*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH23A
Lab Sample ID: 880-22829-14
Date Collected: 12/15/22 13:33
Matrix: Solid
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**318**		5.00	0.395	mg/Kg			12/20/22 00:46	1

Client Sample ID: SW08A
Lab Sample ID: 880-22829-15
Date Collected: 12/15/22 13:34
Matrix: Solid
Date Received: 12/16/22 12:25
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/27/22 10:34	12/27/22 16:20	1
Toluene	<0.000454	U F1	0.00199	0.000454	mg/Kg		12/27/22 10:34	12/27/22 16:20	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/27/22 10:34	12/27/22 16:20	1
m-Xylene & p-Xylene	<0.00101	U F1	0.00398	0.00101	mg/Kg		12/27/22 10:34	12/27/22 16:20	1
o-Xylene	**0.000592**	**J F1**	0.00199	0.000343	mg/Kg		12/27/22 10:34	12/27/22 16:20	1
Xylenes, Total	<0.00101	U F1	0.00398	0.00101	mg/Kg		12/27/22 10:34	12/27/22 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*12/27/22 10:34*	*12/27/22 16:20*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*12/27/22 10:34*	*12/27/22 16:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/28/22 09:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**39.3**	**J**	49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**23.9**	**J *1**	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 18:39	1
Diesel Range Organics (Over C10-C28)	**15.4**	**J**	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 18:39	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*12/16/22 13:29*	*12/18/22 18:39*	*1*
o-Terphenyl	*127*		*70 - 130*	*12/16/22 13:29*	*12/18/22 18:39*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**587**		24.9	1.96	mg/Kg			12/20/22 00:52	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: SW09A

Lab Sample ID: 880-22829-16
Matrix: Solid

Date Collected: 12/15/22 13:41
Date Received: 12/16/22 12:25
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/27/22 10:34	12/27/22 16:41	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		12/27/22 10:34	12/27/22 16:41	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		12/27/22 10:34	12/27/22 16:41	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		12/27/22 10:34	12/27/22 16:41	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		12/27/22 10:34	12/27/22 16:41	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		12/27/22 10:34	12/27/22 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/27/22 10:34*	*12/27/22 16:41*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*12/27/22 10:34*	*12/27/22 16:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			12/28/22 09:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**79.4**		50.0	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**43.7**	**J *1**	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 19:01	1
Diesel Range Organics (Over C10-C28)	**20.4**	**J**	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 19:01	1
Oil Range Organics (Over C28-C36)	**15.3**	**J B**	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*12/16/22 13:29*	*12/18/22 19:01*	*1*
o-Terphenyl	*121*		*70 - 130*	*12/16/22 13:29*	*12/18/22 19:01*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**424**		24.8	1.96	mg/Kg			12/20/22 00:59	5

Client Sample ID: SW10A

Lab Sample ID: 880-22829-17
Matrix: Solid

Date Collected: 12/15/22 13:43
Date Received: 12/16/22 12:25
Sample Depth: 4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/27/22 10:34	12/27/22 17:01	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/27/22 10:34	12/27/22 17:01	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/27/22 10:34	12/27/22 17:01	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/27/22 10:34	12/27/22 17:01	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/27/22 10:34	12/27/22 17:01	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/27/22 10:34	12/27/22 17:01	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: SW10A
Date Collected: 12/15/22 13:43
Date Received: 12/16/22 12:25
Sample Depth: 4

Lab Sample ID: 880-22829-17
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	12/27/22 10:34	12/27/22 17:01	1
1,4-Difluorobenzene (Surr)	81		70 - 130	12/27/22 10:34	12/27/22 17:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/28/22 09:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**80.4**		49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**23.4**	**J *1**	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 19:23	1
Diesel Range Organics (Over C10-C28)	**35.6**	**J**	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 19:23	1
Oil Range Organics (Over C28-C36)	**21.4**	**J B**	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	12/16/22 13:29	12/18/22 19:23	1
o-Terphenyl	127		70 - 130	12/16/22 13:29	12/18/22 19:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**187**		5.02	0.397	mg/Kg			12/20/22 01:05	1

Client Sample ID: BH26
Date Collected: 12/15/22 13:44
Date Received: 12/16/22 12:25
Sample Depth: 3

Lab Sample ID: 880-22829-18
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		12/27/22 10:34	12/27/22 17:22	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		12/27/22 10:34	12/27/22 17:22	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		12/27/22 10:34	12/27/22 17:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		12/27/22 10:34	12/27/22 17:22	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		12/27/22 10:34	12/27/22 17:22	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		12/27/22 10:34	12/27/22 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	12/27/22 10:34	12/27/22 17:22	1
1,4-Difluorobenzene (Surr)	85		70 - 130	12/27/22 10:34	12/27/22 17:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			12/28/22 09:24	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH26

Lab Sample ID: 880-22829-18
Matrix: Solid

Date Collected: 12/15/22 13:44
Date Received: 12/16/22 12:25
Sample Depth: 3

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	37.5	J	49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	37.5	J *1	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 19:46	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 19:46	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*12/16/22 13:29*	*12/18/22 19:46*	*1*
o-Terphenyl	*114*		*70 - 130*	*12/16/22 13:29*	*12/18/22 19:46*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		5.05	0.399	mg/Kg			12/20/22 01:12	1

Client Sample ID: BH25

Lab Sample ID: 880-22829-19
Matrix: Solid

Date Collected: 12/15/22 13:46
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/27/22 10:34	12/27/22 17:42	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/27/22 10:34	12/27/22 17:42	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/27/22 10:34	12/27/22 17:42	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/27/22 10:34	12/27/22 17:42	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		12/27/22 10:34	12/27/22 17:42	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/27/22 10:34	12/27/22 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/27/22 10:34*	*12/27/22 17:42*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*12/27/22 10:34*	*12/27/22 17:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			12/28/22 09:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.5		49.9	15.0	mg/Kg			12/19/22 17:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	40.1	J *1	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 20:08	1
Diesel Range Organics (Over C10-C28)	22.4	J	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 20:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/16/22 13:29	12/18/22 20:08	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH25

Date Collected: 12/15/22 13:46
Date Received: 12/16/22 12:25
Sample Depth: 0-4

Lab Sample ID: 880-22829-19

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	12/16/22 13:29	12/18/22 20:08	1
o-Terphenyl	110		70 - 130	12/16/22 13:29	12/18/22 20:08	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		5.04	0.398	mg/Kg			12/20/22 01:18	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-22829-1	BH1A	111	100
880-22829-1 MS	BH1A	112	118
880-22829-1 MSD	BH1A	110	125
880-22829-2	SW01A	111	96
880-22829-3	BH05A	96	103
880-22829-4	SW02A	119	99
880-22829-5	BH02A	107	100
880-22829-6	BH07A	98	101
880-22829-7	BH08A	102	103
880-22829-8	BH11A	102	100
880-22829-9	SW03A	101	101
880-22829-10	BH06A	101	100
880-22829-11	BH12A	109	108
880-22829-12	BH15A	112	104
880-22829-13	SW06A	118	106
880-22829-14	BH23A	121	76
880-22829-15	SW08A	65 S1-	78
880-22829-15 MS	SW08A	79	87
880-22829-15 MSD	SW08A	84	85
880-22829-16	SW09A	86	71
880-22829-17	SW10A	81	81
880-22829-18	BH26	89	85
880-22829-19	BH25	85	85
LCS 880-42329/1-A	Lab Control Sample	98	100
LCS 880-42420/1-A	Lab Control Sample	93	96
LCS 880-42482/1-A	Lab Control Sample	111	123
LCS 880-42530/1-A	Lab Control Sample	93	106
LCS 880-42531/1-A	Lab Control Sample	99	96
LCS 880-42665/1-A	Lab Control Sample	106	96
LCSD 880-42329/2-A	Lab Control Sample Dup	96	99
LCSD 880-42420/2-A	Lab Control Sample Dup	98	95
LCSD 880-42482/2-A	Lab Control Sample Dup	114	122
LCSD 880-42530/2-A	Lab Control Sample Dup	98	108
LCSD 880-42531/2-A	Lab Control Sample Dup	99	96
LCSD 880-42665/2-A	Lab Control Sample Dup	107	94
MB 880-42329/5-A	Method Blank	87	101
MB 880-42358/5-A	Method Blank	100	86
MB 880-42420/5-A	Method Blank	97	90
MB 880-42465/39	Method Blank	87	99
MB 880-42482/5-A	Method Blank	85	103
MB 880-42530/5-A	Method Blank	94	105
MB 880-42531/5-A	Method Blank	95	93
MB 880-42665/5-A	Method Blank	74	86

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	**Client Sample ID**	**1CO1 (70-130)**	**OTPH1 (70-130)**
880-22829-1	BH1A	102	114
880-22829-1 MS	BH1A	112	106
880-22829-1 MSD	BH1A	97	98
880-22829-2	SW01A	108	121
880-22829-3	BH05A	104	114
880-22829-4	SW02A	105	117
880-22829-5	BH02A	102	113
880-22829-6	BH07A	111	120
880-22829-7	BH08A	98	110
880-22829-8	BH11A	126	138 S1+
880-22829-9	SW03A	116	126
880-22829-10	BH06A	104	116
880-22829-11	BH12A	120	129
880-22829-12	BH15A	103	114
880-22829-13	SW06A	101	113
880-22829-14	BH23A	110	120
880-22829-15	SW08A	119	127
880-22829-16	SW09A	110	121
880-22829-17	SW10A	117	127
880-22829-18	BH26	102	114
880-22829-19	BH25	99	110
LCS 880-42030/2-A	Lab Control Sample	104	121
LCSD 880-42030/3-A	Lab Control Sample Dup	118	135 S1+
MB 880-42030/1-A	Method Blank	148 S1+	168 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42329/5-A
Matrix: Solid
Analysis Batch: 42368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/20/22 15:23	12/21/22 11:22	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/20/22 15:23	12/21/22 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/22 15:23*	*12/21/22 11:22*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/20/22 15:23*	*12/21/22 11:22*	*1*

Lab Sample ID: LCS 880-42329/1-A
Matrix: Solid
Analysis Batch: 42368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09235		mg/Kg		92	70 - 130
Toluene	0.100	0.08850		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08780		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1828		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08816		mg/Kg		88	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-42329/2-A
Matrix: Solid
Analysis Batch: 42368

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42329

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09353		mg/Kg		94	70 - 130	1	35
Toluene	0.100	0.08701		mg/Kg		87	70 - 130	2	35
Ethylbenzene	0.100	0.08572		mg/Kg		86	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1790		mg/Kg		90	70 - 130	2	35
o-Xylene	0.100	0.08705		mg/Kg		87	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-42358/5-A
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/20/22 21:37	12/22/22 11:19	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/20/22 21:37	12/22/22 11:19	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-42358/5-A
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/20/22 21:37	12/22/22 11:19	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/20/22 21:37	12/22/22 11:19	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/20/22 21:37	12/22/22 11:19	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/20/22 21:37	12/22/22 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*12/20/22 21:37*	*12/22/22 11:19*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*12/20/22 21:37*	*12/22/22 11:19*	*1*

Lab Sample ID: MB 880-42420/5-A
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42420

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/21/22 12:40	12/22/22 22:51	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/21/22 12:40	12/22/22 22:51	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/21/22 12:40	12/22/22 22:51	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/21/22 12:40	12/22/22 22:51	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/21/22 12:40	12/22/22 22:51	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/21/22 12:40	12/22/22 22:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/21/22 12:40*	*12/22/22 22:51*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/21/22 12:40*	*12/22/22 22:51*	*1*

Lab Sample ID: LCS 880-42420/1-A
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08886		mg/Kg		89	70 - 130
Toluene	0.100	0.08400		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.07872		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1638		mg/Kg		82	70 - 130
o-Xylene	0.100	0.08467		mg/Kg		85	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-42420/2-A
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42420

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08880		mg/Kg		89	70 - 130	0	35
Toluene	0.100	0.08616		mg/Kg		86	70 - 130	3	35
Ethylbenzene	0.100	0.08076		mg/Kg		81	70 - 130	3	35

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-42420/2-A
Matrix: Solid
Analysis Batch: 42466

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42420

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.1712		mg/Kg		86	70 - 130	4	35
o-Xylene	0.100	0.08842		mg/Kg		88	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 880-42465/39
Matrix: Solid
Analysis Batch: 42465

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg			12/22/22 22:16	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg			12/22/22 22:16	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg			12/22/22 22:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg			12/22/22 22:16	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg			12/22/22 22:16	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg			12/22/22 22:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*12/22/22 22:16*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*12/22/22 22:16*	*1*

Lab Sample ID: MB 880-42482/5-A
Matrix: Solid
Analysis Batch: 42465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/22/22 09:05	12/23/22 08:53	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/22/22 09:05	12/23/22 08:53	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/22/22 09:05	12/23/22 08:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/22/22 09:05	12/23/22 08:53	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/22/22 09:05	12/23/22 08:53	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/22/22 09:05	12/23/22 08:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/22/22 09:05*	*12/23/22 08:53*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*12/22/22 09:05*	*12/23/22 08:53*	*1*

Lab Sample ID: LCS 880-42482/1-A
Matrix: Solid
Analysis Batch: 42465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42482

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09914		mg/Kg		99	70 - 130
Toluene	0.100	0.09794		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2180		mg/Kg		109	70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-42482/1-A
Matrix: Solid
Analysis Batch: 42465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42482

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*

Lab Sample ID: LCSD 880-42482/2-A
Matrix: Solid
Analysis Batch: 42465

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42482

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1015		mg/Kg		102	70 - 130	2	35
Toluene	0.100	0.09837		mg/Kg		98	70 - 130	0	35
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2235		mg/Kg		112	70 - 130	3	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*

Lab Sample ID: 880-22829-1 MS
Matrix: Solid
Analysis Batch: 42465

Client Sample ID: BH1A
Prep Type: Total/NA
Prep Batch: 42482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000387	U	0.0998	0.1044		mg/Kg		105	70 - 130
Toluene	<0.000459	U	0.0998	0.1011		mg/Kg		101	70 - 130
Ethylbenzene	<0.000568	U	0.0998	0.1032		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00102	U	0.200	0.2218		mg/Kg		111	70 - 130
o-Xylene	<0.000346	U	0.0998	0.1108		mg/Kg		111	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: 880-22829-1 MSD
Matrix: Solid
Analysis Batch: 42465

Client Sample ID: BH1A
Prep Type: Total/NA
Prep Batch: 42482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000387	U	0.100	0.1133		mg/Kg		113	70 - 130	8	35
Toluene	<0.000459	U	0.100	0.1086		mg/Kg		108	70 - 130	7	35
Ethylbenzene	<0.000568	U	0.100	0.1091		mg/Kg		109	70 - 130	6	35
m-Xylene & p-Xylene	<0.00102	U	0.200	0.2339		mg/Kg		117	70 - 130	5	35
o-Xylene	<0.000346	U	0.100	0.1174		mg/Kg		117	70 - 130	6	35

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-22829-1 MSD
Matrix: Solid
Analysis Batch: 42465

Client Sample ID: BH1A
Prep Type: Total/NA
Prep Batch: 42482

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	125		70 - 130

Lab Sample ID: MB 880-42530/5-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/22/22 14:20	12/27/22 13:14	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/22/22 14:20	12/27/22 13:14	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/22/22 14:20	12/27/22 13:14	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/22/22 14:20	12/27/22 13:14	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/22/22 14:20	12/27/22 13:14	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/22/22 14:20	12/27/22 13:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	12/22/22 14:20	12/27/22 13:14	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/22/22 14:20	12/27/22 13:14	1

Lab Sample ID: LCS 880-42530/1-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09909		mg/Kg		99	70 - 130
Toluene	0.100	0.08980		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.08708		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1790		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08598		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-42530/2-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42530

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	3	35
Toluene	0.100	0.09701		mg/Kg		97	70 - 130	8	35
Ethylbenzene	0.100	0.09160		mg/Kg		92	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1877		mg/Kg		94	70 - 130	5	35
o-Xylene	0.100	0.09028		mg/Kg		90	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-42530/2-A
Matrix: Solid
Analysis Batch: 42656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42530

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-42531/5-A
Matrix: Solid
Analysis Batch: 42623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42531

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/22/22 14:30	12/27/22 13:02	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/22/22 14:30	12/27/22 13:02	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/22/22 14:30	12/27/22 13:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/22/22 14:30	12/27/22 13:02	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/22/22 14:30	12/27/22 13:02	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/22/22 14:30	12/27/22 13:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	12/22/22 14:30	12/27/22 13:02	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/22/22 14:30	12/27/22 13:02	1

Lab Sample ID: LCS 880-42531/1-A
Matrix: Solid
Analysis Batch: 42623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1042		mg/Kg		104	70 - 130
Toluene	0.100	0.1015		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09525		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2103		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1038		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-42531/2-A
Matrix: Solid
Analysis Batch: 42623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42531

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1033		mg/Kg		103	70 - 130	1	35
Toluene	0.100	0.09966		mg/Kg		100	70 - 130	2	35
Ethylbenzene	0.100	0.09323		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2065		mg/Kg		103	70 - 130	2	35
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-42665/5-A
Matrix: Solid
Analysis Batch: 42705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/27/22 10:34	12/27/22 15:59	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/27/22 10:34	12/27/22 15:59	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/27/22 10:34	12/27/22 15:59	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/27/22 10:34	12/27/22 15:59	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/27/22 10:34	12/27/22 15:59	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/27/22 10:34	12/27/22 15:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*12/27/22 10:34*	*12/27/22 15:59*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*12/27/22 10:34*	*12/27/22 15:59*	*1*

Lab Sample ID: LCS 880-42665/1-A
Matrix: Solid
Analysis Batch: 42705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1060		mg/Kg		106	70 - 130
Toluene	0.100	0.09679		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09241		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.2040		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-42665/2-A
Matrix: Solid
Analysis Batch: 42705

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42665

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09655		mg/Kg		97	70 - 130	9	35
Toluene	0.100	0.08885		mg/Kg		89	70 - 130	9	35
Ethylbenzene	0.100	0.08970		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1918		mg/Kg		96	70 - 130	6	35
o-Xylene	0.100	0.09598		mg/Kg		96	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-22829-15 MS
Matrix: Solid
Analysis Batch: 42705

Client Sample ID: SW08A
Prep Type: Total/NA
Prep Batch: 42665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000383	U	0.0998	0.07192		mg/Kg		72	70 - 130
Toluene	<0.000454	U F1	0.0998	0.06928	F1	mg/Kg		69	70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-22829-15 MS
Matrix: Solid
Analysis Batch: 42705

Client Sample ID: SW08A
Prep Type: Total/NA
Prep Batch: 42665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000563	U	0.0998	0.07029		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00101	U F1	0.200	0.1263	F1	mg/Kg		63	70 - 130
o-Xylene	0.000592	J F1	0.0998	0.06253	F1	mg/Kg		62	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 880-22829-15 MSD
Matrix: Solid
Analysis Batch: 42705

Client Sample ID: SW08A
Prep Type: Total/NA
Prep Batch: 42665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000383	U	0.0990	0.07755		mg/Kg		78	70 - 130	8	35
Toluene	<0.000454	U F1	0.0990	0.07862		mg/Kg		79	70 - 130	13	35
Ethylbenzene	<0.000563	U	0.0990	0.08295		mg/Kg		84	70 - 130	17	35
m-Xylene & p-Xylene	<0.00101	U F1	0.198	0.1551		mg/Kg		78	70 - 130	20	35
o-Xylene	0.000592	J F1	0.0990	0.07558		mg/Kg		76	70 - 130	19	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-42030/1-A
Matrix: Solid
Analysis Batch: 42110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 42030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 09:55	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 09:55	1
Oil Range Organics (Over C28-C36)	16.78	J	50.0	15.0	mg/Kg		12/16/22 13:29	12/18/22 09:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*12/16/22 13:29*	*12/18/22 09:55*	*1*
o-Terphenyl	*168*	*S1+*	*70 - 130*	*12/16/22 13:29*	*12/18/22 09:55*	*1*

Lab Sample ID: LCS 880-42030/2-A
Matrix: Solid
Analysis Batch: 42110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	839.7		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	994.3		mg/Kg		99	70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-42030/2-A
Matrix: Solid
Analysis Batch: 42110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 42030

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: LCSD 880-42030/3-A
Matrix: Solid
Analysis Batch: 42110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 42030

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1052	*1	mg/Kg		105	70 - 130	22	20
Diesel Range Organics (Over C10-C28)			1000	1144		mg/Kg		114	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: 880-22829-1 MS
Matrix: Solid
Analysis Batch: 42110

Client Sample ID: BH1A
Prep Type: Total/NA
Prep Batch: 42030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	25.6	J *1	999	1174		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	110		999	1275		mg/Kg		117	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 880-22829-1 MSD
Matrix: Solid
Analysis Batch: 42110

Client Sample ID: BH1A
Prep Type: Total/NA
Prep Batch: 42030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	25.6	J *1	997	957.2		mg/Kg		93	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	110		997	1133		mg/Kg		103	70 - 130	12	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	98		70 - 130

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42029/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			12/19/22 22:12	1

Lab Sample ID: LCS 880-42029/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	272.4		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-42029/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	272.1		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-22829-1 MS — **Client Sample ID: BH1A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42059

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3420	F1	1250	5021	F1	mg/Kg		128	90 - 110

Lab Sample ID: 880-22829-1 MSD — **Client Sample ID: BH1A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3420	F1	1250	5013	F1	mg/Kg		128	90 - 110	0	20

Lab Sample ID: 880-22829-11 MS — **Client Sample ID: BH12A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42059

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	205		251	472.6		mg/Kg		107	90 - 110

Lab Sample ID: 880-22829-11 MSD — **Client Sample ID: BH12A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 42059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	205		251	472.7		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

GC VOA

Prep Batch: 42329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-6	BH07A	Total/NA	Solid	5035	
880-22829-7	BH08A	Total/NA	Solid	5035	
880-22829-8	BH11A	Total/NA	Solid	5035	
880-22829-9	SW03A	Total/NA	Solid	5035	
880-22829-10	BH06A	Total/NA	Solid	5035	
MB 880-42329/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42329/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42329/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 42358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42358/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 42368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-6	BH07A	Total/NA	Solid	8021B	42329
880-22829-7	BH08A	Total/NA	Solid	8021B	42329
880-22829-8	BH11A	Total/NA	Solid	8021B	42329
880-22829-9	SW03A	Total/NA	Solid	8021B	42329
880-22829-10	BH06A	Total/NA	Solid	8021B	42329
MB 880-42329/5-A	Method Blank	Total/NA	Solid	8021B	42329
LCS 880-42329/1-A	Lab Control Sample	Total/NA	Solid	8021B	42329
LCSD 880-42329/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42329

Prep Batch: 42420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-5	BH02A	Total/NA	Solid	5035	
MB 880-42420/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42420/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42420/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 42465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-1	BH1A	Total/NA	Solid	8021B	42482
880-22829-2	SW01A	Total/NA	Solid	8021B	42482
880-22829-3	BH05A	Total/NA	Solid	8021B	42482
880-22829-4	SW02A	Total/NA	Solid	8021B	42482
MB 880-42465/39	Method Blank	Total/NA	Solid	8021B	
MB 880-42482/5-A	Method Blank	Total/NA	Solid	8021B	42482
LCS 880-42482/1-A	Lab Control Sample	Total/NA	Solid	8021B	42482
LCSD 880-42482/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42482
880-22829-1 MS	BH1A	Total/NA	Solid	8021B	42482
880-22829-1 MSD	BH1A	Total/NA	Solid	8021B	42482

Analysis Batch: 42466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-5	BH02A	Total/NA	Solid	8021B	42420
MB 880-42358/5-A	Method Blank	Total/NA	Solid	8021B	42358
MB 880-42420/5-A	Method Blank	Total/NA	Solid	8021B	42420
LCS 880-42420/1-A	Lab Control Sample	Total/NA	Solid	8021B	42420
LCSD 880-42420/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42420

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

GC VOA

Analysis Batch: 42479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-1	BH1A	Total/NA	Solid	Total BTEX	
880-22829-2	SW01A	Total/NA	Solid	Total BTEX	
880-22829-3	BH05A	Total/NA	Solid	Total BTEX	
880-22829-4	SW02A	Total/NA	Solid	Total BTEX	
880-22829-5	BH02A	Total/NA	Solid	Total BTEX	
880-22829-6	BH07A	Total/NA	Solid	Total BTEX	
880-22829-7	BH08A	Total/NA	Solid	Total BTEX	
880-22829-8	BH11A	Total/NA	Solid	Total BTEX	
880-22829-9	SW03A	Total/NA	Solid	Total BTEX	
880-22829-10	BH06A	Total/NA	Solid	Total BTEX	
880-22829-11	BH12A	Total/NA	Solid	Total BTEX	
880-22829-12	BH15A	Total/NA	Solid	Total BTEX	
880-22829-13	SW06A	Total/NA	Solid	Total BTEX	
880-22829-14	BH23A	Total/NA	Solid	Total BTEX	
880-22829-15	SW08A	Total/NA	Solid	Total BTEX	
880-22829-16	SW09A	Total/NA	Solid	Total BTEX	
880-22829-17	SW10A	Total/NA	Solid	Total BTEX	
880-22829-18	BH26	Total/NA	Solid	Total BTEX	
880-22829-19	BH25	Total/NA	Solid	Total BTEX	

Prep Batch: 42482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-1	BH1A	Total/NA	Solid	5035	
880-22829-2	SW01A	Total/NA	Solid	5035	
880-22829-3	BH05A	Total/NA	Solid	5035	
880-22829-4	SW02A	Total/NA	Solid	5035	
MB 880-42482/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42482/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42482/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22829-1 MS	BH1A	Total/NA	Solid	5035	
880-22829-1 MSD	BH1A	Total/NA	Solid	5035	

Prep Batch: 42530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-11	BH12A	Total/NA	Solid	5035	
MB 880-42530/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42530/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42530/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 42531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-12	BH15A	Total/NA	Solid	5035	
880-22829-13	SW06A	Total/NA	Solid	5035	
880-22829-14	BH23A	Total/NA	Solid	5035	
MB 880-42531/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42531/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42531/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 42623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-12	BH15A	Total/NA	Solid	8021B	42531

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

GC VOA (Continued)

Analysis Batch: 42623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-13	SW06A	Total/NA	Solid	8021B	42531
880-22829-14	BH23A	Total/NA	Solid	8021B	42531
MB 880-42531/5-A	Method Blank	Total/NA	Solid	8021B	42531
LCS 880-42531/1-A	Lab Control Sample	Total/NA	Solid	8021B	42531
LCSD 880-42531/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42531

Analysis Batch: 42656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-11	BH12A	Total/NA	Solid	8021B	42530
MB 880-42530/5-A	Method Blank	Total/NA	Solid	8021B	42530
LCS 880-42530/1-A	Lab Control Sample	Total/NA	Solid	8021B	42530
LCSD 880-42530/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42530

Prep Batch: 42665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-15	SW08A	Total/NA	Solid	5035	
880-22829-16	SW09A	Total/NA	Solid	5035	
880-22829-17	SW10A	Total/NA	Solid	5035	
880-22829-18	BH26	Total/NA	Solid	5035	
880-22829-19	BH25	Total/NA	Solid	5035	
MB 880-42665/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42665/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42665/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22829-15 MS	SW08A	Total/NA	Solid	5035	
880-22829-15 MSD	SW08A	Total/NA	Solid	5035	

Analysis Batch: 42705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-15	SW08A	Total/NA	Solid	8021B	42665
880-22829-16	SW09A	Total/NA	Solid	8021B	42665
880-22829-17	SW10A	Total/NA	Solid	8021B	42665
880-22829-18	BH26	Total/NA	Solid	8021B	42665
880-22829-19	BH25	Total/NA	Solid	8021B	42665
MB 880-42665/5-A	Method Blank	Total/NA	Solid	8021B	42665
LCS 880-42665/1-A	Lab Control Sample	Total/NA	Solid	8021B	42665
LCSD 880-42665/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42665
880-22829-15 MS	SW08A	Total/NA	Solid	8021B	42665
880-22829-15 MSD	SW08A	Total/NA	Solid	8021B	42665

GC Semi VOA

Prep Batch: 42030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-1	BH1A	Total/NA	Solid	8015NM Prep	
880-22829-2	SW01A	Total/NA	Solid	8015NM Prep	
880-22829-3	BH05A	Total/NA	Solid	8015NM Prep	
880-22829-4	SW02A	Total/NA	Solid	8015NM Prep	
880-22829-5	BH02A	Total/NA	Solid	8015NM Prep	
880-22829-6	BH07A	Total/NA	Solid	8015NM Prep	
880-22829-7	BH08A	Total/NA	Solid	8015NM Prep	
880-22829-8	BH11A	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

GC Semi VOA (Continued)

Prep Batch: 42030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-9	SW03A	Total/NA	Solid	8015NM Prep	
880-22829-10	BH06A	Total/NA	Solid	8015NM Prep	
880-22829-11	BH12A	Total/NA	Solid	8015NM Prep	
880-22829-12	BH15A	Total/NA	Solid	8015NM Prep	
880-22829-13	SW06A	Total/NA	Solid	8015NM Prep	
880-22829-14	BH23A	Total/NA	Solid	8015NM Prep	
880-22829-15	SW08A	Total/NA	Solid	8015NM Prep	
880-22829-16	SW09A	Total/NA	Solid	8015NM Prep	
880-22829-17	SW10A	Total/NA	Solid	8015NM Prep	
880-22829-18	BH26	Total/NA	Solid	8015NM Prep	
880-22829-19	BH25	Total/NA	Solid	8015NM Prep	
MB 880-42030/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42030/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22829-1 MS	BH1A	Total/NA	Solid	8015NM Prep	
880-22829-1 MSD	BH1A	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-1	BH1A	Total/NA	Solid	8015B NM	42030
880-22829-2	SW01A	Total/NA	Solid	8015B NM	42030
880-22829-3	BH05A	Total/NA	Solid	8015B NM	42030
880-22829-4	SW02A	Total/NA	Solid	8015B NM	42030
880-22829-5	BH02A	Total/NA	Solid	8015B NM	42030
880-22829-6	BH07A	Total/NA	Solid	8015B NM	42030
880-22829-7	BH08A	Total/NA	Solid	8015B NM	42030
880-22829-8	BH11A	Total/NA	Solid	8015B NM	42030
880-22829-9	SW03A	Total/NA	Solid	8015B NM	42030
880-22829-10	BH06A	Total/NA	Solid	8015B NM	42030
880-22829-11	BH12A	Total/NA	Solid	8015B NM	42030
880-22829-12	BH15A	Total/NA	Solid	8015B NM	42030
880-22829-13	SW06A	Total/NA	Solid	8015B NM	42030
880-22829-14	BH23A	Total/NA	Solid	8015B NM	42030
880-22829-15	SW08A	Total/NA	Solid	8015B NM	42030
880-22829-16	SW09A	Total/NA	Solid	8015B NM	42030
880-22829-17	SW10A	Total/NA	Solid	8015B NM	42030
880-22829-18	BH26	Total/NA	Solid	8015B NM	42030
880-22829-19	BH25	Total/NA	Solid	8015B NM	42030
MB 880-42030/1-A	Method Blank	Total/NA	Solid	8015B NM	42030
LCS 880-42030/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42030
LCSD 880-42030/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42030
880-22829-1 MS	BH1A	Total/NA	Solid	8015B NM	42030
880-22829-1 MSD	BH1A	Total/NA	Solid	8015B NM	42030

Analysis Batch: 42259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-1	BH1A	Total/NA	Solid	8015 NM	
880-22829-2	SW01A	Total/NA	Solid	8015 NM	
880-22829-3	BH05A	Total/NA	Solid	8015 NM	
880-22829-4	SW02A	Total/NA	Solid	8015 NM	
880-22829-5	BH02A	Total/NA	Solid	8015 NM	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

GC Semi VOA (Continued)

Analysis Batch: 42259 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-6	BH07A	Total/NA	Solid	8015 NM	
880-22829-7	BH08A	Total/NA	Solid	8015 NM	
880-22829-8	BH11A	Total/NA	Solid	8015 NM	
880-22829-9	SW03A	Total/NA	Solid	8015 NM	
880-22829-10	BH06A	Total/NA	Solid	8015 NM	
880-22829-11	BH12A	Total/NA	Solid	8015 NM	
880-22829-12	BH15A	Total/NA	Solid	8015 NM	
880-22829-13	SW06A	Total/NA	Solid	8015 NM	
880-22829-14	BH23A	Total/NA	Solid	8015 NM	
880-22829-15	SW08A	Total/NA	Solid	8015 NM	
880-22829-16	SW09A	Total/NA	Solid	8015 NM	
880-22829-17	SW10A	Total/NA	Solid	8015 NM	
880-22829-18	BH26	Total/NA	Solid	8015 NM	
880-22829-19	BH25	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 42029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-1	BH1A	Soluble	Solid	DI Leach	
880-22829-2	SW01A	Soluble	Solid	DI Leach	
880-22829-3	BH05A	Soluble	Solid	DI Leach	
880-22829-4	SW02A	Soluble	Solid	DI Leach	
880-22829-5	BH02A	Soluble	Solid	DI Leach	
880-22829-6	BH07A	Soluble	Solid	DI Leach	
880-22829-7	BH08A	Soluble	Solid	DI Leach	
880-22829-8	BH11A	Soluble	Solid	DI Leach	
880-22829-9	SW03A	Soluble	Solid	DI Leach	
880-22829-10	BH06A	Soluble	Solid	DI Leach	
880-22829-11	BH12A	Soluble	Solid	DI Leach	
880-22829-12	BH15A	Soluble	Solid	DI Leach	
880-22829-13	SW06A	Soluble	Solid	DI Leach	
880-22829-14	BH23A	Soluble	Solid	DI Leach	
880-22829-15	SW08A	Soluble	Solid	DI Leach	
880-22829-16	SW09A	Soluble	Solid	DI Leach	
880-22829-17	SW10A	Soluble	Solid	DI Leach	
880-22829-18	BH26	Soluble	Solid	DI Leach	
880-22829-19	BH25	Soluble	Solid	DI Leach	
MB 880-42029/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42029/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42029/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22829-1 MS	BH1A	Soluble	Solid	DI Leach	
880-22829-1 MSD	BH1A	Soluble	Solid	DI Leach	
880-22829-11 MS	BH12A	Soluble	Solid	DI Leach	
880-22829-11 MSD	BH12A	Soluble	Solid	DI Leach	

Analysis Batch: 42059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-1	BH1A	Soluble	Solid	300.0	42029
880-22829-2	SW01A	Soluble	Solid	300.0	42029
880-22829-3	BH05A	Soluble	Solid	300.0	42029

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

HPLC/IC (Continued)

Analysis Batch: 42059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22829-4	SW02A	Soluble	Solid	300.0	42029
880-22829-5	BH02A	Soluble	Solid	300.0	42029
880-22829-6	BH07A	Soluble	Solid	300.0	42029
880-22829-7	BH08A	Soluble	Solid	300.0	42029
880-22829-8	BH11A	Soluble	Solid	300.0	42029
880-22829-9	SW03A	Soluble	Solid	300.0	42029
880-22829-10	BH06A	Soluble	Solid	300.0	42029
880-22829-11	BH12A	Soluble	Solid	300.0	42029
880-22829-12	BH15A	Soluble	Solid	300.0	42029
880-22829-13	SW06A	Soluble	Solid	300.0	42029
880-22829-14	BH23A	Soluble	Solid	300.0	42029
880-22829-15	SW08A	Soluble	Solid	300.0	42029
880-22829-16	SW09A	Soluble	Solid	300.0	42029
880-22829-17	SW10A	Soluble	Solid	300.0	42029
880-22829-18	BH26	Soluble	Solid	300.0	42029
880-22829-19	BH25	Soluble	Solid	300.0	42029
MB 880-42029/1-A	Method Blank	Soluble	Solid	300.0	42029
LCS 880-42029/2-A	Lab Control Sample	Soluble	Solid	300.0	42029
LCSD 880-42029/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42029
880-22829-1 MS	BH1A	Soluble	Solid	300.0	42029
880-22829-1 MSD	BH1A	Soluble	Solid	300.0	42029
880-22829-11 MS	BH12A	Soluble	Solid	300.0	42029
880-22829-11 MSD	BH12A	Soluble	Solid	300.0	42029

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH1A
Date Collected: 12/15/22 12:48
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42482	12/22/22 09:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42465	12/23/22 09:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/23/22 17:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 12:27	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42059	12/19/22 22:31	CH	EET MID

Client Sample ID: SW01A
Date Collected: 12/15/22 12:50
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42482	12/22/22 09:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42465	12/23/22 09:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/23/22 17:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 13:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/19/22 22:50	CH	EET MID

Client Sample ID: BH05A
Date Collected: 12/15/22 12:52
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42482	12/22/22 09:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42465	12/23/22 09:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/23/22 17:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 13:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/19/22 22:57	CH	EET MID

Client Sample ID: SW02A
Date Collected: 12/15/22 13:04
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42482	12/22/22 09:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42465	12/23/22 10:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/23/22 17:12	AJ	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: SW02A
Date Collected: 12/15/22 13:04
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 14:17	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42059	12/19/22 23:03	CH	EET MID

Client Sample ID: BH02A
Date Collected: 12/15/22 13:08
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	42420	12/21/22 12:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42466	12/23/22 06:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/23/22 08:21	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 14:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42059	12/19/22 23:10	CH	EET MID

Client Sample ID: BH07A
Date Collected: 12/15/22 13:12
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42329	12/20/22 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42368	12/21/22 18:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/22/22 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 15:01	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42059	12/19/22 23:29	CH	EET MID

Client Sample ID: BH08A
Date Collected: 12/15/22 13:13
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42329	12/20/22 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42368	12/21/22 18:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/22/22 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 15:23	SM	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH08A
Date Collected: 12/15/22 13:13
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/19/22 23:35	CH	EET MID

Client Sample ID: BH11A
Date Collected: 12/15/22 13:15
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	42329	12/20/22 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42368	12/21/22 19:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/22/22 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 15:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/19/22 23:42	CH	EET MID

Client Sample ID: SW03A
Date Collected: 12/15/22 13:17
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	42329	12/20/22 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42368	12/21/22 19:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/22/22 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 16:07	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/19/22 23:48	CH	EET MID

Client Sample ID: BH06A
Date Collected: 12/15/22 13:24
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42329	12/20/22 15:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42368	12/21/22 20:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/22/22 08:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 16:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/19/22 23:55	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH12A
Date Collected: 12/15/22 13:25
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42530	12/22/22 14:20	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42656	12/27/22 21:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/28/22 09:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 17:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/20/22 00:01	CH	EET MID

Client Sample ID: BH15A
Date Collected: 12/15/22 13:27
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	42531	12/22/22 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42623	12/27/22 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/28/22 10:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 17:33	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42059	12/20/22 00:20	CH	EET MID

Client Sample ID: SW06A
Date Collected: 12/15/22 13:31
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	42531	12/22/22 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42623	12/27/22 19:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/28/22 10:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 17:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42059	12/20/22 00:27	CH	EET MID

Client Sample ID: BH23A
Date Collected: 12/15/22 13:33
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42531	12/22/22 14:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42623	12/27/22 19:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/28/22 10:26	AJ	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: BH23A
Date Collected: 12/15/22 13:33
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 18:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/20/22 00:46	CH	EET MID

Client Sample ID: SW08A
Date Collected: 12/15/22 13:34
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42665	12/27/22 10:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42705	12/27/22 16:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/28/22 09:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 18:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42059	12/20/22 00:52	CH	EET MID

Client Sample ID: SW09A
Date Collected: 12/15/22 13:41
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	42665	12/27/22 10:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42705	12/27/22 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/28/22 09:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 19:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42059	12/20/22 00:59	CH	EET MID

Client Sample ID: SW10A
Date Collected: 12/15/22 13:43
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42665	12/27/22 10:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42705	12/27/22 17:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/28/22 09:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 19:23	SM	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Client Sample ID: SW10A
Date Collected: 12/15/22 13:43
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/20/22 01:05	CH	EET MID

Client Sample ID: BH26
Date Collected: 12/15/22 13:44
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42665	12/27/22 10:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42705	12/27/22 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/28/22 09:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 19:46	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/20/22 01:12	CH	EET MID

Client Sample ID: BH25
Date Collected: 12/15/22 13:46
Date Received: 12/16/22 12:25

Lab Sample ID: 880-22829-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42665	12/27/22 10:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42705	12/27/22 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			42479	12/28/22 09:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42259	12/19/22 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	42030	12/16/22 13:29	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42110	12/18/22 20:08	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	42029	12/16/22 13:19	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42059	12/20/22 01:18	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 880-22829-1
SDG: 12597046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-22829-1	BH1A	Solid	12/15/22 12:48	12/16/22 12:25	3
880-22829-2	SW01A	Solid	12/15/22 12:50	12/16/22 12:25	0-4
880-22829-3	BH05A	Solid	12/15/22 12:52	12/16/22 12:25	3
880-22829-4	SW02A	Solid	12/15/22 13:04	12/16/22 12:25	0-4
880-22829-5	BH02A	Solid	12/15/22 13:08	12/16/22 12:25	4
880-22829-6	BH07A	Solid	12/15/22 13:12	12/16/22 12:25	3
880-22829-7	BH08A	Solid	12/15/22 13:13	12/16/22 12:25	4
880-22829-8	BH11A	Solid	12/15/22 13:15	12/16/22 12:25	3
880-22829-9	SW03A	Solid	12/15/22 13:17	12/16/22 12:25	0-4
880-22829-10	BH06A	Solid	12/15/22 13:24	12/16/22 12:25	4
880-22829-11	BH12A	Solid	12/15/22 13:25	12/16/22 12:25	3
880-22829-12	BH15A	Solid	12/15/22 13:27	12/16/22 12:25	0-4
880-22829-13	SW06A	Solid	12/15/22 13:31	12/16/22 12:25	3
880-22829-14	BH23A	Solid	12/15/22 13:33	12/16/22 12:25	0-4
880-22829-15	SW08A	Solid	12/15/22 13:34	12/16/22 12:25	4
880-22829-16	SW09A	Solid	12/15/22 13:41	12/16/22 12:25	3
880-22829-17	SW10A	Solid	12/15/22 13:43	12/16/22 12:25	4
880-22829-18	BH26	Solid	12/15/22 13:44	12/16/22 12:25	3
880-22829-19	BH25	Solid	12/15/22 13:46	12/16/22 12:25	0-4

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199

Work Order No: 22829

12/28/2022

SWOW SSOW-12597046-2022-001

www xenco.com Page 1 of 2

Project Manager	J T Murrey	Bill to (if different)	
Company Name.	GHD Services	Company Name	
Address.	2135 S Loop 250 West	Address.	
City, State ZIP	Midland, TX 79703	City, State ZIP	
Phone:	(361) 252-6136	Email	jt.murrey@ghd.com
Project Name:	Delek BC Berry	Turn Around	
Project Number	12597046	Routine Rush	
Project Location:		Due Date	12/22/2022
Sampler's Name	J T Murrey	TAT starts the day received by the lab if received by 4 30pm	
PO #	340-008513		

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RR ☐ Superfund ☐
State of Project
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

SAMPLE RECEIPT

Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals.	Yes No N/A	Correction Factor	-.38
Sample Custody Seals:	Yes No N/A	Temperature Reading	5.8
Total Containers:		Corrected Temperature:	5.4

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (ft)	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO+DRO+ORO)	Chlorides
BH1A	SO	12/15/2022	12 48	3	Comp	1	X	X	X
SW01A	SO	12/15/2022	12 50	0-4	Comp	1	X	X	X
BH05A	SO	12/15/2022	12 52	3	Comp	1	X	X	X
SW02A	SO	12/15/2022	13 04	0-4	Comp	1	X	X	X
BH02A	SO	12/15/2022	13 08	4	Comp	1	X	X	X
BH07A	SO	12/15/2022	13 12	3	Comp	1	X	X	X
BH08A	SO	12/15/2022	13 13	4	Comp	1	X	X	X
BH11A	SO	12/15/2022	13 15	3	Comp	1	X	X	X
SW03A	SO	12/15/2022	13 17	0-4	Comp	1	X	X	X
BH06A	SO	12/15/2022	13 24	4	Comp	1	X	X	X

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$. $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

4oz

880-22829 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 D Brewster		12/16/22 1285	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

Received by OCD: 7/24/2023 10:28:31 AM

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443, Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988 3199

Work Order No: 22829

12/28/2022

SWOW SSOW-12597046-2022-001

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Project Manager	J T Murrey	Bill to (if different)	
Company Name.	GHD Services	Company Name	
Address	2135 S Loop 250 West	Address:	
City, State ZIP	Midland, TX 79703	City, State ZIP	
Phone	(361) 252-6136	Email	jt.murrey@ghd com
Project Name:	Delek BC Berry	Turn Around	
Project Number	12597046	Routine Rush	Pres. Code
Project Location:		Due Date	12/22/2022
Sampler's Name	J T Murrey	TAT starts the day received by the lab if received by 4 30pm	
PO #	340-008513		

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RR ☐ Superfund ☐
State of Project
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

SAMPLE RECEIPT

Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact.	Yes No	Thermometer ID	
Cooler Custody Seals.	Yes No N/A	Correction Factor	
Sample Custody Seals:	Yes No N/A	Temperature Reading.	
Total Containers		Corrected Temperature.	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (ft)	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO+DRO+ORO)	Chlorides
BH12A	SO	12/15/2022	13 25	3	Comp	1	X	X	X
BH15A	SO	12/15/2022	13 27	0-4	Comp	1	X	X	X
SW06A	SO	12/15/2022	13 31	3	Comp	1	X	X	X
BH23A	SO	12/15/2022	13 33	0-4	Comp	1	X	X	X
SW08A	SO	12/15/2022	13 34	4	Comp	1	X	X	X
SW09A	SO	12/15/2022	13 41	3	Comp	1	X	X	X
SW10A	SO	12/15/2022	13 43	4	Comp	1	X	X	X
BH26	SO	12/15/2022	13 44	3	Grab/	1	X	X	X
BH25	SO	12/15/2022	13 46	0-4	Grab/	1	X	X	X

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3. HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$. $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Loc: 830
22829

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 D Franks		12/16/22 1225	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020 2

Received by OCD: 7/24/2023 10:28:31 AM

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Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-22829-1
SDG Number: 12597046

Login Number: 22829
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Stephen Asante-Ansong
GHD Services Inc.
6320 Rothway Drive
Suite 100
Houston, Texas 77040

Generated 2/7/2023 5:57:49 PM

JOB DESCRIPTION

BC Berry
SDG NUMBER 12597046

JOB NUMBER

880-24321-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Debbie Simmons, Project Manager
Debbie.Simmons@et.eurofinsus.com
(832)986-6768

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 13
Lab Chronicle 15
Certification Summary 16
Method Summary 17
Sample Summary 18
Chain of Custody 19
Receipt Checklists 20

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Job ID: 880-24321-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-24321-1

Receipt
The samples were received on 2/6/2023 8:44 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-1B (880-24321-1), BH-24B (880-24321-2) and SW-7E (880-24321-3).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-45554 and analytical batch 880-45537 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Client Sample ID: BH-1B
Date Collected: 02/02/23 00:00
Date Received: 02/06/23 08:44

Lab Sample ID: 880-24321-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/06/23 13:13	02/07/23 12:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/06/23 13:13	02/07/23 12:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/06/23 13:13	02/07/23 12:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/06/23 13:13	02/07/23 12:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/06/23 13:13	02/07/23 12:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/06/23 13:13	02/07/23 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*02/06/23 13:13*	*02/07/23 12:22*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/06/23 13:13*	*02/07/23 12:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/07/23 16:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**71.9**		49.9		mg/Kg			02/07/23 11:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/06/23 09:00	02/07/23 03:11	1
Diesel Range Organics (Over C10-C28)	**71.9**		49.9		mg/Kg		02/06/23 09:00	02/07/23 03:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/06/23 09:00	02/07/23 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*02/06/23 09:00*	*02/07/23 03:11*	*1*
o-Terphenyl	*108*		*70 - 130*	*02/06/23 09:00*	*02/07/23 03:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3710**		24.9		mg/Kg			02/06/23 20:47	5

Client Sample ID: BH-24B
Date Collected: 02/02/23 00:00
Date Received: 02/06/23 08:44

Lab Sample ID: 880-24321-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/06/23 13:13	02/07/23 12:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/06/23 13:13	02/07/23 12:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/06/23 13:13	02/07/23 12:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/06/23 13:13	02/07/23 12:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/06/23 13:13	02/07/23 12:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/06/23 13:13	02/07/23 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*02/06/23 13:13*	*02/07/23 12:42*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*02/06/23 13:13*	*02/07/23 12:42*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Client Sample ID: BH-24B

Lab Sample ID: 880-24321-2
Matrix: Solid

Date Collected: 02/02/23 00:00
Date Received: 02/06/23 08:44

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/07/23 16:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**81.7**		50.0		mg/Kg			02/07/23 11:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/06/23 09:00	02/07/23 03:32	1
Diesel Range Organics (Over C10-C28)	**81.7**		50.0		mg/Kg		02/06/23 09:00	02/07/23 03:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/06/23 09:00	02/07/23 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/06/23 09:00*	*02/07/23 03:32*	*1*
o-Terphenyl	*100*		*70 - 130*	*02/06/23 09:00*	*02/07/23 03:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**239**		4.95		mg/Kg			02/06/23 20:51	1

Client Sample ID: SW-7E

Lab Sample ID: 880-24321-3
Matrix: Solid

Date Collected: 02/02/23 00:00
Date Received: 02/06/23 08:44

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/06/23 13:13	02/07/23 13:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/06/23 13:13	02/07/23 13:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/06/23 13:13	02/07/23 13:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/06/23 13:13	02/07/23 13:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/06/23 13:13	02/07/23 13:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/06/23 13:13	02/07/23 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*02/06/23 13:13*	*02/07/23 13:03*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*02/06/23 13:13*	*02/07/23 13:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/07/23 16:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/07/23 11:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/06/23 09:00	02/07/23 03:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/23 09:00	02/07/23 03:54	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Client Sample ID: SW-7E

Date Collected: 02/02/23 00:00
Date Received: 02/06/23 08:44

Lab Sample ID: 880-24321-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/06/23 09:00	02/07/23 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/06/23 09:00*	*02/07/23 03:54*	*1*
o-Terphenyl	*103*		*70 - 130*	*02/06/23 09:00*	*02/07/23 03:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1200**		25.0		mg/Kg			02/06/23 20:56	5

Surrogate Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-24321-1	BH-1B	69 S1-	95
880-24321-2	BH-24B	74	70
880-24321-3	SW-7E	110	76
LCS 880-45604/1-A	Lab Control Sample	116	105
LCSD 880-45604/2-A	Lab Control Sample Dup	115	101
MB 880-45604/5-A	Method Blank	74	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-24321-1	BH-1B	93	108
880-24321-2	BH-24B	90	100
880-24321-3	SW-7E	90	103
LCS 880-45554/2-A	Lab Control Sample	116	125
LCSD 880-45554/3-A	Lab Control Sample Dup	112	124
MB 880-45554/1-A	Method Blank	125	141 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45604/5-A
Matrix: Solid
Analysis Batch: 45648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45604

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/06/23 13:13	02/07/23 10:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/06/23 13:13	02/07/23 10:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/06/23 13:13	02/07/23 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/06/23 13:13	02/07/23 10:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/06/23 13:13	02/07/23 10:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/06/23 13:13	02/07/23 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*02/06/23 13:13*	*02/07/23 10:58*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/06/23 13:13*	*02/07/23 10:58*	*1*

Lab Sample ID: LCS 880-45604/1-A
Matrix: Solid
Analysis Batch: 45648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45604

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1059		mg/Kg		106	70 - 130
Toluene	0.100	0.1097		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1175		mg/Kg		118	70 - 130
m-Xylene & p-Xylene	0.200	0.2598		mg/Kg		130	70 - 130
o-Xylene	0.100	0.1282		mg/Kg		128	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-45604/2-A
Matrix: Solid
Analysis Batch: 45648

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45604

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1056		mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.1076		mg/Kg		108	70 - 130	2	35
Ethylbenzene	0.100	0.1121		mg/Kg		112	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2437		mg/Kg		122	70 - 130	6	35
o-Xylene	0.100	0.1206		mg/Kg		121	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-45554/1-A
Matrix: Solid
Analysis Batch: 45537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45554

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/06/23 08:42	02/06/23 20:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/06/23 08:42	02/06/23 20:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/06/23 08:42	02/06/23 20:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*02/06/23 08:42*	*02/06/23 20:16*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*02/06/23 08:42*	*02/06/23 20:16*	*1*

Lab Sample ID: LCS 880-45554/2-A
Matrix: Solid
Analysis Batch: 45537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45554

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	999	1036		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	999	987.0		mg/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*125*		*70 - 130*

Lab Sample ID: LCSD 880-45554/3-A
Matrix: Solid
Analysis Batch: 45537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45554

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	999	1071		mg/Kg		107	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	999	1042		mg/Kg		104	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*124*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45558/1-A
Matrix: Solid
Analysis Batch: 45598

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/06/23 18:55	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-45558/2-A
Matrix: Solid
Analysis Batch: 45598

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.0		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-45558/3-A
Matrix: Solid
Analysis Batch: 45598

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.8		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

GC VOA

Prep Batch: 45604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24321-1	BH-1B	Total/NA	Solid	5035	
880-24321-2	BH-24B	Total/NA	Solid	5035	
880-24321-3	SW-7E	Total/NA	Solid	5035	
MB 880-45604/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45604/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45604/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 45648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24321-1	BH-1B	Total/NA	Solid	8021B	45604
880-24321-2	BH-24B	Total/NA	Solid	8021B	45604
880-24321-3	SW-7E	Total/NA	Solid	8021B	45604
MB 880-45604/5-A	Method Blank	Total/NA	Solid	8021B	45604
LCS 880-45604/1-A	Lab Control Sample	Total/NA	Solid	8021B	45604
LCSD 880-45604/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45604

Analysis Batch: 45714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24321-1	BH-1B	Total/NA	Solid	Total BTEX	
880-24321-2	BH-24B	Total/NA	Solid	Total BTEX	
880-24321-3	SW-7E	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 45537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24321-1	BH-1B	Total/NA	Solid	8015B NM	45554
880-24321-2	BH-24B	Total/NA	Solid	8015B NM	45554
880-24321-3	SW-7E	Total/NA	Solid	8015B NM	45554
MB 880-45554/1-A	Method Blank	Total/NA	Solid	8015B NM	45554
LCS 880-45554/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45554
LCSD 880-45554/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45554

Prep Batch: 45554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24321-1	BH-1B	Total/NA	Solid	8015NM Prep	
880-24321-2	BH-24B	Total/NA	Solid	8015NM Prep	
880-24321-3	SW-7E	Total/NA	Solid	8015NM Prep	
MB 880-45554/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45554/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45554/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24321-1	BH-1B	Total/NA	Solid	8015 NM	
880-24321-2	BH-24B	Total/NA	Solid	8015 NM	
880-24321-3	SW-7E	Total/NA	Solid	8015 NM	

QC Association Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

HPLC/IC

Leach Batch: 45558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24321-1	BH-1B	Soluble	Solid	DI Leach	
880-24321-2	BH-24B	Soluble	Solid	DI Leach	
880-24321-3	SW-7E	Soluble	Solid	DI Leach	
MB 880-45558/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45558/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45558/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 45598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24321-1	BH-1B	Soluble	Solid	300.0	45558
880-24321-2	BH-24B	Soluble	Solid	300.0	45558
880-24321-3	SW-7E	Soluble	Solid	300.0	45558
MB 880-45558/1-A	Method Blank	Soluble	Solid	300.0	45558
LCS 880-45558/2-A	Lab Control Sample	Soluble	Solid	300.0	45558
LCSD 880-45558/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45558

Lab Chronicle

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Client Sample ID: BH-1B
Date Collected: 02/02/23 00:00
Date Received: 02/06/23 08:44

Lab Sample ID: 880-24321-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	45604	02/06/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45648	02/07/23 12:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45714	02/07/23 16:26	MNR	EET MID
Total/NA	Analysis	8015 NM		1			45681	02/07/23 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45554	02/06/23 09:00	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45537	02/07/23 03:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	45558	02/06/23 09:26	KS	EET MID
Soluble	Analysis	300.0		5			45598	02/06/23 20:47	CH	EET MID

Client Sample ID: BH-24B
Date Collected: 02/02/23 00:00
Date Received: 02/06/23 08:44

Lab Sample ID: 880-24321-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	45604	02/06/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45648	02/07/23 12:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45714	02/07/23 16:26	MNR	EET MID
Total/NA	Analysis	8015 NM		1			45681	02/07/23 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45554	02/06/23 09:00	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45537	02/07/23 03:32	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45558	02/06/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45598	02/06/23 20:51	CH	EET MID

Client Sample ID: SW-7E
Date Collected: 02/02/23 00:00
Date Received: 02/06/23 08:44

Lab Sample ID: 880-24321-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45604	02/06/23 13:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45648	02/07/23 13:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45714	02/07/23 16:26	MNR	EET MID
Total/NA	Analysis	8015 NM		1			45681	02/07/23 11:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45554	02/06/23 09:00	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45537	02/07/23 03:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45558	02/06/23 09:26	KS	EET MID
Soluble	Analysis	300.0		5			45598	02/06/23 20:56	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-24321-1
SDG: 12597046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24321-1	BH-1B	Solid	02/02/23 00:00	02/06/23 08:44
880-24321-2	BH-24B	Solid	02/02/23 00:00	02/06/23 08:44
880-24321-3	SW-7E	Solid	02/02/23 00:00	02/06/23 08:44

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 24321

www.xenco.com Page _____ of _____

Project Manager:	Stephen Asante-Ansong	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	11451 Katy Freeway, Suite 400	Address:	
City, State ZIP:	Houston, TX 77079	City, State ZIP:	
Phone:	713-734-3090	Email	~~Stephen.~~ Stephen.asante-ansong@ghd.com

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name:	BC Berry	Turn Around	
Project Number:	12597046	☐ Routine ☑ Rush	
Project Location	Lea county	Due Date	2-8-23
Sampler's Name:	Daniel Sparks	TAT starts the day received by the lab, if received by 4:30pm	
PO #			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Tile
Cooler Custody Seals.	Yes No N/A	Correction Factor:	-.30
Sample Custody Seals.	Yes No N/A	Temperature Reading:	4.5
Total Containers.		Corrected Temperature:	4.2

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX	TPH 8015	Chlorides	Sample Comments
BH-1B	SO	2-2-23			Comp	1	X	X	X	402
BH-24B	SO	2-2-23				1	X	X	X	
~~BH~~ SW-7E	SO	2-2-23				1	X	X	X	

Preservative Codes

None NO	DI Water: H_2O
Cool Cool	MeOH Me
HCL. HC	HNO_3 HN
H_2SO_4 H_2	NaOH Na
H_3PO_4 HP	
$NaHSO_4$. NABIS	
$Na_2S_2O_3$ $NaSO_3$	
Zn Acetate+NaOH Zn	
NaOH+Ascorbic Acid SAPC	

880-24321 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 D Sparks		2/6/23 844	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Received by OCD: 7/24/2023 10:28:31 AM

Released to Imaging: 1/31/2024 4:48:02 PM

2/7/2023

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-24321-1
SDG Number: 12597046

Login Number: 24321
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Stephen Asante-Ansong
GHD Services Inc.
11200 Richmond Ave
Suite 200
Houston, Texas 77082

Generated 2/28/2023 2:40:31 PM

JOB DESCRIPTION

Delek - BC Berry
SDG NUMBER 12597046

JOB NUMBER

890-4189-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 1/31/2024 4:48:02 PM

my EOL

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
2/28/2023 2:40:31 PM

Authorized for release by
Debbie Simmons, Project Manager
Debbie.Simmons@et.eurofinsus.com
(832)986-6768

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 13
Lab Chronicle 15
Certification Summary 16
Method Summary 17
Sample Summary 18
Chain of Custody 19
Receipt Checklists 20

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Job ID: 890-4189-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4189-1

Receipt
The samples were received on 2/23/2023 4:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW-06B (890-4189-1), SW-07F (890-4189-2) and BH-07B (890-4189-3).

GC VOA
Method 8021B: LCS biased high. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.(LCS 880-47213/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-47298 and analytical batch 880-47263 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Client Sample ID: SW-06B

Lab Sample ID: 890-4189-1
Date Collected: 02/22/23 00:00
Matrix: Solid
Date Received: 02/23/23 16:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/24/23 16:43	02/27/23 12:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/24/23 16:43	02/27/23 12:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/24/23 16:43	02/27/23 12:24	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		02/24/23 16:43	02/27/23 12:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/24/23 16:43	02/27/23 12:24	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		02/24/23 16:43	02/27/23 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/24/23 16:43*	*02/27/23 12:24*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*02/24/23 16:43*	*02/27/23 12:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/27/23 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 11:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/23 10:15	02/28/23 03:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/23 10:15	02/28/23 03:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/23 10:15	02/28/23 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*02/27/23 10:15*	*02/28/23 03:54*	*1*
o-Terphenyl	*109*		*70 - 130*	*02/27/23 10:15*	*02/28/23 03:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1950**		24.9		mg/Kg			02/27/23 13:49	5

Client Sample ID: SW-07F

Lab Sample ID: 890-4189-2
Date Collected: 02/22/23 00:00
Matrix: Solid
Date Received: 02/23/23 16:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/24/23 16:43	02/27/23 12:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/24/23 16:43	02/27/23 12:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/24/23 16:43	02/27/23 12:45	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		02/24/23 16:43	02/27/23 12:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/24/23 16:43	02/27/23 12:45	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		02/24/23 16:43	02/27/23 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*02/24/23 16:43*	*02/27/23 12:45*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*02/24/23 16:43*	*02/27/23 12:45*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Client Sample ID: SW-07F

Lab Sample ID: 890-4189-2
Date Collected: 02/22/23 00:00
Matrix: Solid
Date Received: 02/23/23 16:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/27/23 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 11:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/23 10:15	02/28/23 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/23 10:15	02/28/23 04:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/23 10:15	02/28/23 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*02/27/23 10:15*	*02/28/23 04:16*	*1*
o-Terphenyl	*103*		*70 - 130*	*02/27/23 10:15*	*02/28/23 04:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1910**		24.8		mg/Kg			02/27/23 13:54	5

Client Sample ID: BH-07B

Lab Sample ID: 890-4189-3
Date Collected: 02/22/23 00:00
Matrix: Solid
Date Received: 02/23/23 16:25

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:43	02/27/23 13:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:43	02/27/23 13:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:43	02/27/23 13:05	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		02/24/23 16:43	02/27/23 13:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:43	02/27/23 13:05	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		02/24/23 16:43	02/27/23 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/24/23 16:43*	*02/27/23 13:05*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*02/24/23 16:43*	*02/27/23 13:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/27/23 17:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 11:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/23 10:15	02/28/23 04:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/23 10:15	02/28/23 04:37	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Client Sample ID: BH-07B

Lab Sample ID: 890-4189-3

Date Collected: 02/22/23 00:00
Matrix: Solid
Date Received: 02/23/23 16:25

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/23 10:15	02/28/23 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*02/27/23 10:15*	*02/28/23 04:37*	*1*
o-Terphenyl	*102*		*70 - 130*	*02/27/23 10:15*	*02/28/23 04:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**189**		5.04		mg/Kg			02/27/23 13:58	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4189-1	SW-06B	103	81
890-4189-2	SW-07F	93	83
890-4189-3	BH-07B	103	86
LCS 880-47213/1-A	Lab Control Sample	120	105
LCSD 880-47213/2-A	Lab Control Sample Dup	109	103
MB 880-47213/5-A	Method Blank	76	89

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4189-1	SW-06B	108	109
890-4189-2	SW-07F	99	103
890-4189-3	BH-07B	94	102
LCS 880-47298/2-A	Lab Control Sample	79	94
LCSD 880-47298/3-A	Lab Control Sample Dup	78	96
MB 880-47298/1-A	Method Blank	145 S1+	166 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47213/5-A
Matrix: Solid
Analysis Batch: 47272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:43	02/27/23 11:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:43	02/27/23 11:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:43	02/27/23 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/24/23 16:43	02/27/23 11:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/24/23 16:43	02/27/23 11:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/24/23 16:43	02/27/23 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*02/24/23 16:43*	*02/27/23 11:21*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/24/23 16:43*	*02/27/23 11:21*	*1*

Lab Sample ID: LCS 880-47213/1-A
Matrix: Solid
Analysis Batch: 47272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1189		mg/Kg		119	70 - 130
Toluene	0.100	0.1150		mg/Kg		115	70 - 130
Ethylbenzene	0.100	0.1234		mg/Kg		123	70 - 130
m-Xylene & p-Xylene	0.200	0.2645	*+	mg/Kg		132	70 - 130
o-Xylene	0.100	0.1303		mg/Kg		130	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-47213/2-A
Matrix: Solid
Analysis Batch: 47272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47213

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	7	35
Toluene	0.100	0.1107		mg/Kg		111	70 - 130	4	35
Ethylbenzene	0.100	0.1155		mg/Kg		115	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2441		mg/Kg		122	70 - 130	8	35
o-Xylene	0.100	0.1206		mg/Kg		121	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-47298/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47263 — **Prep Batch: 47298**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/27/23 10:15	02/27/23 20:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/23 10:15	02/27/23 20:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/23 10:15	02/27/23 20:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*02/27/23 10:15*	*02/27/23 20:00*	*1*
o-Terphenyl	*166*	*S1+*	*70 - 130*	*02/27/23 10:15*	*02/27/23 20:00*	*1*

Lab Sample ID: LCS 880-47298/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47263 — **Prep Batch: 47298**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	862.0		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	942.0		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: LCSD 880-47298/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47263 — **Prep Batch: 47298**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	886.3		mg/Kg		89	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1022		mg/Kg		102	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47296/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 47333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/27/23 11:47	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-47296/2-A
Matrix: Solid
Analysis Batch: 47333

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-47296/3-A
Matrix: Solid
Analysis Batch: 47333

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	235.4		mg/Kg		94	90 - 110	6	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

GC VOA

Prep Batch: 47213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4189-1	SW-06B	Total/NA	Solid	5035	
890-4189-2	SW-07F	Total/NA	Solid	5035	
890-4189-3	BH-07B	Total/NA	Solid	5035	
MB 880-47213/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47213/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47213/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 47272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4189-1	SW-06B	Total/NA	Solid	8021B	47213
890-4189-2	SW-07F	Total/NA	Solid	8021B	47213
890-4189-3	BH-07B	Total/NA	Solid	8021B	47213
MB 880-47213/5-A	Method Blank	Total/NA	Solid	8021B	47213
LCS 880-47213/1-A	Lab Control Sample	Total/NA	Solid	8021B	47213
LCSD 880-47213/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47213

Analysis Batch: 47371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4189-1	SW-06B	Total/NA	Solid	Total BTEX	
890-4189-2	SW-07F	Total/NA	Solid	Total BTEX	
890-4189-3	BH-07B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4189-1	SW-06B	Total/NA	Solid	8015B NM	47298
890-4189-2	SW-07F	Total/NA	Solid	8015B NM	47298
890-4189-3	BH-07B	Total/NA	Solid	8015B NM	47298
MB 880-47298/1-A	Method Blank	Total/NA	Solid	8015B NM	47298
LCS 880-47298/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47298
LCSD 880-47298/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47298

Prep Batch: 47298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4189-1	SW-06B	Total/NA	Solid	8015NM Prep	
890-4189-2	SW-07F	Total/NA	Solid	8015NM Prep	
890-4189-3	BH-07B	Total/NA	Solid	8015NM Prep	
MB 880-47298/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47298/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47298/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4189-1	SW-06B	Total/NA	Solid	8015 NM	
890-4189-2	SW-07F	Total/NA	Solid	8015 NM	
890-4189-3	BH-07B	Total/NA	Solid	8015 NM	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

HPLC/IC

Leach Batch: 47296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4189-1	SW-06B	Soluble	Solid	DI Leach	
890-4189-2	SW-07F	Soluble	Solid	DI Leach	
890-4189-3	BH-07B	Soluble	Solid	DI Leach	
MB 880-47296/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47296/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47296/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 47333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4189-1	SW-06B	Soluble	Solid	300.0	47296
890-4189-2	SW-07F	Soluble	Solid	300.0	47296
890-4189-3	BH-07B	Soluble	Solid	300.0	47296
MB 880-47296/1-A	Method Blank	Soluble	Solid	300.0	47296
LCS 880-47296/2-A	Lab Control Sample	Soluble	Solid	300.0	47296
LCSD 880-47296/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47296

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Client Sample ID: SW-06B

Lab Sample ID: 890-4189-1
Date Collected: 02/22/23 00:00
Matrix: Solid
Date Received: 02/23/23 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	47213	02/24/23 16:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47272	02/27/23 12:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47371	02/27/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			47427	02/28/23 11:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47298	02/27/23 10:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47263	02/28/23 03:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47296	02/27/23 09:33	KS	EET MID
Soluble	Analysis	300.0		5			47333	02/27/23 13:49	CH	EET MID

Client Sample ID: SW-07F

Lab Sample ID: 890-4189-2
Date Collected: 02/22/23 00:00
Matrix: Solid
Date Received: 02/23/23 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	47213	02/24/23 16:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47272	02/27/23 12:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47371	02/27/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			47427	02/28/23 11:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47298	02/27/23 10:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47263	02/28/23 04:16	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47296	02/27/23 09:33	KS	EET MID
Soluble	Analysis	300.0		5			47333	02/27/23 13:54	CH	EET MID

Client Sample ID: BH-07B

Lab Sample ID: 890-4189-3
Date Collected: 02/22/23 00:00
Matrix: Solid
Date Received: 02/23/23 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	47213	02/24/23 16:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47272	02/27/23 13:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47371	02/27/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			47427	02/28/23 11:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47298	02/27/23 10:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47263	02/28/23 04:37	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	47296	02/27/23 09:33	KS	EET MID
Soluble	Analysis	300.0		1			47333	02/27/23 13:58	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Delek - BC Berry

Job ID: 890-4189-1
SDG: 12597046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4189-1	SW-06B	Solid	02/22/23 00:00	02/23/23 16:25
890-4189-2	SW-07F	Solid	02/22/23 00:00	02/23/23 16:25
890-4189-3	BH-07B	Solid	02/22/23 00:00	02/23/23 16:25

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Stephen Asante-Ansong	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd. NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)386-7158	Email:	Stephen.Asante-ansong@ghd.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	BC Berry	Turn Around	
Project Number:	12597046	☑ Routine ☒ Rush	
Project Location:	Eunice, NM	Due Date:	3 day TAT
Sampler's Name:	Daniel Sparks	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	IWM007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	6.0	
Total Containers:		Corrected Temperature:	5.8	

ANALYSIS REQUEST

Pres. Code

Parameters: CHLORIDES (EPA: 300.0), TPH (8015), BTEX (8021)

890-4189 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SW-06B	SO	2-22-23			Comp	1	x	x	x
SW-07F	SO				Comp	1	x	x	x
BH-07B	SO				Comp	1	x	x	x

Preservative Codes

None: NO	DI Water: H_2O
Cool: Cool	MeOH: Me
HCL: HC	HNO_3: HN
H_2SO_4: H_2	NaOH: Na
H_3PO_4: HP	
$NaHSO_4$: NABIS	
$Na_2S_2O_3$: $NaSO_3$	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Sample Comments

Incident ID:

Cost Center:

AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 D [illegible]	[illegible] 1625 2-23-23	2-23-23 4:20	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Received by OCD: 7/24/2023 10:28:31 AM

Released to Imaging: 1/31/2024 4:48:02 PM

2/28/2023

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-4189-1
SDG Number: 12597046

Login Number: 4189
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-4189-1
SDG Number: 12597046

Login Number: 4189
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 02/27/23 08:59 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Stephen Asante-Ansong
GHD Services Inc.
11200 Richmond Ave
Suite 200
Houston, Texas 77082

Generated 4/25/2023 11:19:06 AM

JOB DESCRIPTION

BC Berry
SDG NUMBER 12597046

JOB NUMBER

880-27469-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 1/31/2024 4:48:02 PM

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
4/25/2023 11:19:06 AM

Authorized for release by
Debbie Simmons, Project Manager
Debbie.Simmons@et.eurofinsus.com
(832)986-6768

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 7
Surrogate Summary 17
QC Sample Results 18
QC Association Summary 22
Lab Chronicle 26
Certification Summary 30
Method Summary 31
Sample Summary 32
Chain of Custody 33
Receipt Checklists 35

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Job ID: 880-27469-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-27469-1

Receipt
The samples were received on 4/21/2023 11:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions
The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51700 and analytical batch 880-51664 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51664 recovered under the lower control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51664 recovered under the lower control limit for Benzene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.(CCV 880-51664/51)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-51760 and analytical batch 880-51778 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-27469-A-1-F MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-30 (880-27469-4) and BH-31 (880-27469-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-12 (880-27469-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-51760 and analytical batch 880-51778 contained Oil Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D: The instrument blank for analytical batch 880-51881 contained Chloride greater than one-half the reporting limit (RL), and were not re-analyzed because all associated sample results were greater than 10 times the instrument blank detection. The data have been qualified and reported.BH-27 (880-27469-1), BH-28 (880-27469-2), BH-29 (880-27469-3), BH-30 (880-27469-4), BH-31 (880-27469-5), BH-32 (880-27469-6), BH-33 (880-27469-7), BH-34 (880-27469-8), SW-11 (880-27469-9) and (MB 880-51741/1-A)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51741 and analytical batch 880-51881 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The

Case Narrative

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Job ID: 880-27469-1 (Continued)

Laboratory: Eurofins Midland (Continued)

associated samples are: BH-27 (880-27469-1), BH-28 (880-27469-2), BH-29 (880-27469-3), BH-30 (880-27469-4), BH-31 (880-27469-5) and BH-32 (880-27469-6).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51741 and analytical batch 880-51881 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The associated samples are: BH-33 (880-27469-7), BH-34 (880-27469-8), SW-11 (880-27469-9), SW-12 (880-27469-10), SW-13 (880-27469-11), SW-14 (880-27469-12), (880-27469-A-7-C MS) and (880-27469-A-7-D MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: BH-27

Lab Sample ID: 880-27469-1
Matrix: Solid

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U F1	0.00202	0.000388	mg/Kg		04/21/23 11:52	04/22/23 00:05	1
Toluene	**0.00330**	**F1**	0.00202	0.000460	mg/Kg		04/21/23 11:52	04/22/23 00:05	1
Ethylbenzene	**0.000666**	**J F1**	0.00202	0.000570	mg/Kg		04/21/23 11:52	04/22/23 00:05	1
m-Xylene & p-Xylene	**0.00115**	**J F1**	0.00403	0.00102	mg/Kg		04/21/23 11:52	04/22/23 00:05	1
o-Xylene	**0.000574**	**J F1**	0.00202	0.000347	mg/Kg		04/21/23 11:52	04/22/23 00:05	1
Xylenes, Total	**0.00172**	**J F1**	0.00403	0.00102	mg/Kg		04/21/23 11:52	04/22/23 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*04/21/23 11:52*	*04/22/23 00:05*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*04/21/23 11:52*	*04/22/23 00:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00569**		0.00403	0.00102	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**134**		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**28.0**	**J**	49.9	15.0	mg/Kg		04/21/23 16:30	04/22/23 21:23	1
Diesel Range Organics (Over C10-C28)	**64.8**		49.9	15.0	mg/Kg		04/21/23 16:30	04/22/23 21:23	1
Oil Range Organics (Over C28-C36)	**41.6**	**J B**	49.9	15.0	mg/Kg		04/21/23 16:30	04/22/23 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/21/23 16:30*	*04/22/23 21:23*	*1*
o-Terphenyl	*120*		*70 - 130*	*04/21/23 16:30*	*04/22/23 21:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1590**	**B**	25.2	1.99	mg/Kg			04/24/23 21:56	5

Client Sample ID: BH-28

Lab Sample ID: 880-27469-2
Matrix: Solid

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00172**	**J**	0.00199	0.000383	mg/Kg		04/21/23 11:52	04/22/23 00:25	1
Toluene	**0.00350**		0.00199	0.000454	mg/Kg		04/21/23 11:52	04/22/23 00:25	1
Ethylbenzene	**0.000828**	**J**	0.00199	0.000563	mg/Kg		04/21/23 11:52	04/22/23 00:25	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:52	04/22/23 00:25	1
o-Xylene	**0.000877**	**J**	0.00199	0.000343	mg/Kg		04/21/23 11:52	04/22/23 00:25	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:52	04/22/23 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/21/23 11:52*	*04/22/23 00:25*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/21/23 11:52*	*04/22/23 00:25*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: BH-28

Lab Sample ID: 880-27469-2
Matrix: Solid

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00693		0.00398	0.00101	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	629		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.8	J	49.9	15.0	mg/Kg		04/21/23 16:30	04/22/23 22:27	1
Diesel Range Organics (Over C10-C28)	317		49.9	15.0	mg/Kg		04/21/23 16:30	04/22/23 22:27	1
Oil Range Organics (Over C28-C36)	287	B	49.9	15.0	mg/Kg		04/21/23 16:30	04/22/23 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*04/21/23 16:30*	*04/22/23 22:27*	*1*
o-Terphenyl	*125*		*70 - 130*	*04/21/23 16:30*	*04/22/23 22:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1670	B	25.2	1.99	mg/Kg			04/24/23 22:10	5

Client Sample ID: BH-29

Lab Sample ID: 880-27469-3
Matrix: Solid

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000917	J	0.00199	0.000383	mg/Kg		04/21/23 11:52	04/22/23 00:46	1
Toluene	0.00166	J	0.00199	0.000453	mg/Kg		04/21/23 11:52	04/22/23 00:46	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/21/23 11:52	04/22/23 00:46	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:52	04/22/23 00:46	1
o-Xylene	0.000365	J	0.00199	0.000342	mg/Kg		04/21/23 11:52	04/22/23 00:46	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:52	04/22/23 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/21/23 11:52*	*04/22/23 00:46*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/21/23 11:52*	*04/22/23 00:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00294	J	0.00398	0.00100	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	104		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.0	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 22:48	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: BH-29

Lab Sample ID: 880-27469-3
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	43.1	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 22:48	1
Oll Range Organics (Over C28-C36)	22.1	J B	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*04/21/23 16:30*	*04/22/23 22:48*	*1*
o-Terphenyl	*123*		*70 - 130*	*04/21/23 16:30*	*04/22/23 22:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	983	B	24.9	1.96	mg/Kg			04/24/23 22:14	5

Client Sample ID: BH-30

Lab Sample ID: 880-27469-4
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00190	J	0.00200	0.000384	mg/Kg		04/21/23 11:52	04/22/23 01:06	1
Toluene	0.00546		0.00200	0.000455	mg/Kg		04/21/23 11:52	04/22/23 01:06	1
Ethylbenzene	0.000731	J	0.00200	0.000564	mg/Kg		04/21/23 11:52	04/22/23 01:06	1
m-Xylene & p-Xylene	0.00126	J	0.00399	0.00101	mg/Kg		04/21/23 11:52	04/22/23 01:06	1
o-Xylene	0.000534	J	0.00200	0.000343	mg/Kg		04/21/23 11:52	04/22/23 01:06	1
Xylenes, Total	0.00179	J	0.00399	0.00101	mg/Kg		04/21/23 11:52	04/22/23 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*04/21/23 11:52*	*04/22/23 01:06*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/21/23 11:52*	*04/22/23 01:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00989		0.00399	0.00101	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.9		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.1	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 23:09	1
Diesel Range Organics (Over C10-C28)	24.8	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 23:09	1
Oll Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*04/21/23 16:30*	*04/22/23 23:09*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*04/21/23 16:30*	*04/22/23 23:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330	B	25.0	1.97	mg/Kg			04/24/23 22:19	5

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: BH-31

Lab Sample ID: 880-27469-5
Matrix: Solid

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00139	J	0.00201	0.000387	mg/Kg		04/21/23 11:52	04/22/23 01:26	1
Toluene	0.00316		0.00201	0.000459	mg/Kg		04/21/23 11:52	04/22/23 01:26	1
Ethylbenzene	0.000731	J	0.00201	0.000568	mg/Kg		04/21/23 11:52	04/22/23 01:26	1
m-Xylene & p-Xylene	0.00118	J	0.00402	0.00102	mg/Kg		04/21/23 11:52	04/22/23 01:26	1
o-Xylene	0.000638	J	0.00201	0.000346	mg/Kg		04/21/23 11:52	04/22/23 01:26	1
Xylenes, Total	0.00182	J	0.00402	0.00102	mg/Kg		04/21/23 11:52	04/22/23 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/21/23 11:52*	*04/22/23 01:26*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/21/23 11:52*	*04/22/23 01:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00710		0.00402	0.00102	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.9		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	38.7	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 23:30	1
Diesel Range Organics (Over C10-C28)	29.2	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 23:30	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*04/21/23 16:30*	*04/22/23 23:30*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*04/21/23 16:30*	*04/22/23 23:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2040	B	25.1	1.98	mg/Kg			04/24/23 22:23	5

Client Sample ID: BH-32

Lab Sample ID: 880-27469-6
Matrix: Solid

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00147	J	0.00201	0.000387	mg/Kg		04/21/23 11:52	04/22/23 01:47	1
Toluene	0.00431		0.00201	0.000458	mg/Kg		04/21/23 11:52	04/22/23 01:47	1
Ethylbenzene	0.000571	J	0.00201	0.000567	mg/Kg		04/21/23 11:52	04/22/23 01:47	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		04/21/23 11:52	04/22/23 01:47	1
o-Xylene	0.000679	J	0.00201	0.000345	mg/Kg		04/21/23 11:52	04/22/23 01:47	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/21/23 11:52	04/22/23 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/21/23 11:52*	*04/22/23 01:47*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*04/21/23 11:52*	*04/22/23 01:47*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: BH-32

Lab Sample ID: 880-27469-6
Matrix: Solid

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00703		0.00402	0.00101	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	212		49.8	14.9	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.9	J	49.8	14.9	mg/Kg		04/21/23 16:30	04/22/23 23:51	1
Diesel Range Organics (Over C10-C28)	105		49.8	14.9	mg/Kg		04/21/23 16:30	04/22/23 23:51	1
Oil Range Organics (Over C28-C36)	79.7	B	49.8	14.9	mg/Kg		04/21/23 16:30	04/22/23 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*04/21/23 16:30*	*04/22/23 23:51*	*1*
o-Terphenyl	*118*		*70 - 130*	*04/21/23 16:30*	*04/22/23 23:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3600	B	24.9	1.96	mg/Kg			04/24/23 22:28	5

Client Sample ID: BH-33

Lab Sample ID: 880-27469-7
Matrix: Solid

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00143	J	0.00200	0.000385	mg/Kg		04/21/23 11:52	04/22/23 02:07	1
Toluene	0.00437		0.00200	0.000456	mg/Kg		04/21/23 11:52	04/22/23 02:07	1
Ethylbenzene	0.000781	J	0.00200	0.000565	mg/Kg		04/21/23 11:52	04/22/23 02:07	1
m-Xylene & p-Xylene	0.00117	J	0.00400	0.00101	mg/Kg		04/21/23 11:52	04/22/23 02:07	1
o-Xylene	0.000512	J	0.00200	0.000344	mg/Kg		04/21/23 11:52	04/22/23 02:07	1
Xylenes, Total	0.00168	J	0.00400	0.00101	mg/Kg		04/21/23 11:52	04/22/23 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*04/21/23 11:52*	*04/22/23 02:07*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/21/23 11:52*	*04/22/23 02:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00826		0.00400	0.00101	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	112		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	38.8	J	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 00:12	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: BH-33

Lab Sample ID: 880-27469-7
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	46.4	J	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 00:12	1
Oil Range Organics (Over C28-C36)	26.6	J B	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/21/23 16:30	04/23/23 00:12	1
o-Terphenyl	124		70 - 130	04/21/23 16:30	04/23/23 00:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090	B F1	20.9	1.65	mg/Kg			04/24/23 22:32	5

Client Sample ID: BH-34

Lab Sample ID: 880-27469-8
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00229		0.00202	0.000388	mg/Kg		04/21/23 11:52	04/22/23 02:28	1
Toluene	0.00569		0.00202	0.000460	mg/Kg		04/21/23 11:52	04/22/23 02:28	1
Ethylbenzene	0.00107	J	0.00202	0.000570	mg/Kg		04/21/23 11:52	04/22/23 02:28	1
m-Xylene & p-Xylene	0.00127	J	0.00403	0.00102	mg/Kg		04/21/23 11:52	04/22/23 02:28	1
o-Xylene	0.000653	J	0.00202	0.000347	mg/Kg		04/21/23 11:52	04/22/23 02:28	1
Xylenes, Total	0.00192	J	0.00403	0.00102	mg/Kg		04/21/23 11:52	04/22/23 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/21/23 11:52	04/22/23 02:28	1
1,4-Difluorobenzene (Surr)	103		70 - 130	04/21/23 11:52	04/22/23 02:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0110		0.00403	0.00102	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	234		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.8	J	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 00:33	1
Diesel Range Organics (Over C10-C28)	120		49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 00:33	1
Oil Range Organics (Over C28-C36)	88.0	B	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/21/23 16:30	04/23/23 00:33	1
o-Terphenyl	124		70 - 130	04/21/23 16:30	04/23/23 00:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: BH-34

Lab Sample ID: 880-27469-8
Date Collected: 04/14/23 00:00
Matrix: Solid
Date Received: 04/21/23 11:26

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4630	B	50.4	3.98	mg/Kg			04/24/23 22:46	10

Client Sample ID: SW-11

Lab Sample ID: 880-27469-9
Date Collected: 04/14/23 00:00
Matrix: Solid
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00223		0.00199	0.000383	mg/Kg		04/21/23 11:52	04/22/23 02:48	1
Toluene	0.00610		0.00199	0.000454	mg/Kg		04/21/23 11:52	04/22/23 02:48	1
Ethylbenzene	0.000884	J	0.00199	0.000563	mg/Kg		04/21/23 11:52	04/22/23 02:48	1
m-Xylene & p-Xylene	0.00146	J	0.00398	0.00101	mg/Kg		04/21/23 11:52	04/22/23 02:48	1
o-Xylene	0.000530	J	0.00199	0.000343	mg/Kg		04/21/23 11:52	04/22/23 02:48	1
Xylenes, Total	0.00199	J	0.00398	0.00101	mg/Kg		04/21/23 11:52	04/22/23 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/21/23 11:52*	*04/22/23 02:48*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/21/23 11:52*	*04/22/23 02:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0112		0.00398	0.00101	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.9		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	45.4	J	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 00:53	1
Diesel Range Organics (Over C10-C28)	25.5	J	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 00:53	1
OII Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*04/21/23 16:30*	*04/23/23 00:53*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/21/23 16:30*	*04/23/23 00:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	287	B	5.01	0.396	mg/Kg			04/24/23 22:51	1

Client Sample ID: SW-12

Lab Sample ID: 880-27469-10
Date Collected: 04/14/23 00:00
Matrix: Solid
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		04/21/23 11:52	04/22/23 03:09	1
Toluene	0.00176	J	0.00199	0.000453	mg/Kg		04/21/23 11:52	04/22/23 03:09	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/21/23 11:52	04/22/23 03:09	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: SW-12

Lab Sample ID: 880-27469-10
Matrix: Solid

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:52	04/22/23 03:09	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/21/23 11:52	04/22/23 03:09	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:52	04/22/23 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/21/23 11:52*	*04/22/23 03:09*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/21/23 11:52*	*04/22/23 03:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00176**	**J**	0.00398	0.00100	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**62.6**		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**41.6**	**J**	50.0	15.0	mg/Kg		04/21/23 16:30	04/23/23 01:14	1
Diesel Range Organics (Over C10-C28)	**21.0**	**J**	50.0	15.0	mg/Kg		04/21/23 16:30	04/23/23 01:14	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/21/23 16:30	04/23/23 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*04/21/23 16:30*	*04/23/23 01:14*	*1*
o-Terphenyl	*131*	*S1+*	*70 - 130*	*04/21/23 16:30*	*04/23/23 01:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6510**	**B**	50.5	3.99	mg/Kg			04/24/23 23:04	10

Client Sample ID: SW-13

Lab Sample ID: 880-27469-11
Matrix: Solid

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00172**	**J**	0.00200	0.000384	mg/Kg		04/21/23 11:52	04/22/23 04:59	1
Toluene	**0.00390**		0.00200	0.000455	mg/Kg		04/21/23 11:52	04/22/23 04:59	1
Ethylbenzene	**0.000805**	**J**	0.00200	0.000564	mg/Kg		04/21/23 11:52	04/22/23 04:59	1
m-Xylene & p-Xylene	**0.00134**	**J**	0.00399	0.00101	mg/Kg		04/21/23 11:52	04/22/23 04:59	1
o-Xylene	**0.000578**	**J**	0.00200	0.000343	mg/Kg		04/21/23 11:52	04/22/23 04:59	1
Xylenes, Total	**0.00192**	**J**	0.00399	0.00101	mg/Kg		04/21/23 11:52	04/22/23 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/21/23 11:52*	*04/22/23 04:59*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/21/23 11:52*	*04/22/23 04:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00834**		0.00399	0.00101	mg/Kg			04/24/23 14:06	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: SW-13

Lab Sample ID: 880-27469-11
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.6		49.8	14.9	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.0	J	49.8	14.9	mg/Kg		04/21/23 16:30	04/23/23 01:54	1
Diesel Range Organics (Over C10-C28)	18.6	J	49.8	14.9	mg/Kg		04/21/23 16:30	04/23/23 01:54	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/21/23 16:30	04/23/23 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*04/21/23 16:30*	*04/23/23 01:54*	*1*
o-Terphenyl	*120*		*70 - 130*	*04/21/23 16:30*	*04/23/23 01:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	408	B	5.00	0.395	mg/Kg			04/24/23 23:09	1

Client Sample ID: SW-14

Lab Sample ID: 880-27469-12
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00207		0.00201	0.000387	mg/Kg		04/21/23 11:52	04/22/23 05:19	1
Toluene	0.00581		0.00201	0.000459	mg/Kg		04/21/23 11:52	04/22/23 05:19	1
Ethylbenzene	0.000772	J	0.00201	0.000568	mg/Kg		04/21/23 11:52	04/22/23 05:19	1
m-Xylene & p-Xylene	0.00124	J	0.00402	0.00102	mg/Kg		04/21/23 11:52	04/22/23 05:19	1
o-Xylene	0.000635	J	0.00201	0.000346	mg/Kg		04/21/23 11:52	04/22/23 05:19	1
Xylenes, Total	0.00188	J	0.00402	0.00102	mg/Kg		04/21/23 11:52	04/22/23 05:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*04/21/23 11:52*	*04/22/23 05:19*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*04/21/23 11:52*	*04/22/23 05:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0105		0.00402	0.00102	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.9		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	42.4	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/23/23 02:15	1
Diesel Range Organics (Over C10-C28)	22.5	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/23/23 02:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/21/23 16:30	04/23/23 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*04/21/23 16:30*	*04/23/23 02:15*	*1*

Client Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: SW-14

Lab Sample ID: 880-27469-12

Date Collected: 04/14/23 00:00
Matrix: Solid
Date Received: 04/21/23 11:26

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*121*		*70 - 130*	*04/21/23 16:30*	*04/23/23 02:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	383	B	4.99	0.394	mg/Kg			04/24/23 23:13	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-27469-1	BH-27	107	103
880-27469-1 MS	BH-27	98	99
880-27469-1 MSD	BH-27	100	105
880-27469-2	BH-28	100	100
880-27469-3	BH-29	110	99
880-27469-4	BH-30	111	100
880-27469-5	BH-31	109	101
880-27469-6	BH-32	106	103
880-27469-7	BH-33	109	102
880-27469-8	BH-34	108	103
880-27469-9	SW-11	108	101
880-27469-10	SW-12	106	98
880-27469-11	SW-13	104	101
880-27469-12	SW-14	108	97
LCS 880-51700/1-A	Lab Control Sample	102	107
LCSD 880-51700/2-A	Lab Control Sample Dup	99	105
MB 880-51686/5-A	Method Blank	98	96
MB 880-51700/5-A	Method Blank	97	99

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-27469-1	BH-27	106	120
880-27469-1 MS	BH-27	127	131 S1+
880-27469-1 MSD	BH-27	110	113
880-27469-2	BH-28	113	125
880-27469-3	BH-29	107	123
880-27469-4	BH-30	118	135 S1+
880-27469-5	BH-31	118	135 S1+
880-27469-6	BH-32	105	118
880-27469-7	BH-33	108	124
880-27469-8	BH-34	109	124
880-27469-9	SW-11	93	107
880-27469-10	SW-12	111	131 S1+
880-27469-11	SW-13	106	120
880-27469-12	SW-14	108	121
LCS 880-51760/2-A	Lab Control Sample	111	128
LCSD 880-51760/3-A	Lab Control Sample Dup	109	127
MB 880-51760/1-A	Method Blank	134 S1+	171 S1+

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51686/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51664 — **Prep Batch: 51686**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/21/23 10:18	04/21/23 12:00	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/21/23 10:18	04/21/23 12:00	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/21/23 10:18	04/21/23 12:00	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 10:18	04/21/23 12:00	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/21/23 10:18	04/21/23 12:00	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 10:18	04/21/23 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/21/23 10:18*	*04/21/23 12:00*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/21/23 10:18*	*04/21/23 12:00*	*1*

Lab Sample ID: MB 880-51700/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51664 — **Prep Batch: 51700**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/21/23 11:52	04/21/23 23:36	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/21/23 11:52	04/21/23 23:36	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/21/23 11:52	04/21/23 23:36	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 11:52	04/21/23 23:36	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/21/23 11:52	04/21/23 23:36	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 11:52	04/21/23 23:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/21/23 11:52*	*04/21/23 23:36*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/21/23 11:52*	*04/21/23 23:36*	*1*

Lab Sample ID: LCS 880-51700/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51664 — **Prep Batch: 51700**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08594		mg/Kg		86	70 - 130
Toluene	0.100	0.08256		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.07779		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1575		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07938		mg/Kg		79	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 880-51700/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51664 — **Prep Batch: 51700**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07963		mg/Kg		80	70 - 130	8	35

QC Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-51700/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51664 — **Prep Batch: 51700**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07788		mg/Kg		78	70 - 130	6	35
Ethylbenzene			0.100	0.07169		mg/Kg		72	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1454		mg/Kg		73	70 - 130	8	35
o-Xylene			0.100	0.07504		mg/Kg		75	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-27469-1 MS — **Client Sample ID: BH-27**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51664 — **Prep Batch: 51700**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.000388	U F1	0.0996	0.06340	F1	mg/Kg		64	70 - 130		
Toluene	0.00330	F1	0.0996	0.06203	F1	mg/Kg		59	70 - 130		
Ethylbenzene	0.000666	J F1	0.0996	0.05730	F1	mg/Kg		57	70 - 130		
m-Xylene & p-Xylene	0.00115	J F1	0.199	0.1151	F1	mg/Kg		57	70 - 130		
o-Xylene	0.000574	J F1	0.0996	0.05822	F1	mg/Kg		58	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-27469-1 MSD — **Client Sample ID: BH-27**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51664 — **Prep Batch: 51700**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000388	U F1	0.0990	0.06534	F1	mg/Kg		66	70 - 130	3	35
Toluene	0.00330	F1	0.0990	0.06495	F1	mg/Kg		62	70 - 130	5	35
Ethylbenzene	0.000666	J F1	0.0990	0.05733	F1	mg/Kg		57	70 - 130	0	35
m-Xylene & p-Xylene	0.00115	J F1	0.198	0.1151	F1	mg/Kg		58	70 - 130	0	35
o-Xylene	0.000574	J F1	0.0990	0.05862	F1	mg/Kg		59	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-51760/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51778 — **Prep Batch: 51760**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 20:18	1

QC Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-51760/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51778 — **Prep Batch: 51760**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 20:18	1
Oll Range Organics (Over C28-C36)	15.43	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 20:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*04/21/23 16:30*	*04/22/23 20:18*	*1*
o-Terphenyl	*171*	*S1+*	*70 - 130*	*04/21/23 16:30*	*04/22/23 20:18*	*1*

Lab Sample ID: LCS 880-51760/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51778 — **Prep Batch: 51760**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1079		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	939.3		mg/Kg		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*128*		*70 - 130*

Lab Sample ID: LCSD 880-51760/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51778 — **Prep Batch: 51760**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1059		mg/Kg		106	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	917.8		mg/Kg		92	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*127*		*70 - 130*

Lab Sample ID: 880-27469-1 MS — **Client Sample ID: BH-27**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51778 — **Prep Batch: 51760**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	28.0	J	996	965.5		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	64.8		996	1015		mg/Kg		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*127*		*70 - 130*
o-Terphenyl	*131*	*S1+*	*70 - 130*

QC Sample Results

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-27469-1 MSD — **Client Sample ID: BH-27**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 51778 — **Prep Batch: 51760**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	28.0	J	996	837.7		mg/Kg		81	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	64.8		996	887.1		mg/Kg		83	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51741/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 51881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.571	J	5.00	0.395	mg/Kg			04/24/23 21:15	1

Lab Sample ID: LCS 880-51741/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 51881

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-51741/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 51881

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.2		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-27469-7 MS — **Client Sample ID: BH-33**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 51881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1090	B F1	1050	2006	F1	mg/Kg		88	90 - 110

Lab Sample ID: 880-27469-7 MSD — **Client Sample ID: BH-33**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 51881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1090	B F1	1050	1996	F1	mg/Kg		87	90 - 110	1	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

GC VOA

Analysis Batch: 51664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27469-1	BH-27	Total/NA	Solid	8021B	51700
880-27469-2	BH-28	Total/NA	Solid	8021B	51700
880-27469-3	BH-29	Total/NA	Solid	8021B	51700
880-27469-4	BH-30	Total/NA	Solid	8021B	51700
880-27469-5	BH-31	Total/NA	Solid	8021B	51700
880-27469-6	BH-32	Total/NA	Solid	8021B	51700
880-27469-7	BH-33	Total/NA	Solid	8021B	51700
880-27469-8	BH-34	Total/NA	Solid	8021B	51700
880-27469-9	SW-11	Total/NA	Solid	8021B	51700
880-27469-10	SW-12	Total/NA	Solid	8021B	51700
880-27469-11	SW-13	Total/NA	Solid	8021B	51700
880-27469-12	SW-14	Total/NA	Solid	8021B	51700
MB 880-51686/5-A	Method Blank	Total/NA	Solid	8021B	51686
MB 880-51700/5-A	Method Blank	Total/NA	Solid	8021B	51700
LCS 880-51700/1-A	Lab Control Sample	Total/NA	Solid	8021B	51700
LCSD 880-51700/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51700
880-27469-1 MS	BH-27	Total/NA	Solid	8021B	51700
880-27469-1 MSD	BH-27	Total/NA	Solid	8021B	51700

Prep Batch: 51686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51686/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 51700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27469-1	BH-27	Total/NA	Solid	5035	
880-27469-2	BH-28	Total/NA	Solid	5035	
880-27469-3	BH-29	Total/NA	Solid	5035	
880-27469-4	BH-30	Total/NA	Solid	5035	
880-27469-5	BH-31	Total/NA	Solid	5035	
880-27469-6	BH-32	Total/NA	Solid	5035	
880-27469-7	BH-33	Total/NA	Solid	5035	
880-27469-8	BH-34	Total/NA	Solid	5035	
880-27469-9	SW-11	Total/NA	Solid	5035	
880-27469-10	SW-12	Total/NA	Solid	5035	
880-27469-11	SW-13	Total/NA	Solid	5035	
880-27469-12	SW-14	Total/NA	Solid	5035	
MB 880-51700/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51700/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51700/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27469-1 MS	BH-27	Total/NA	Solid	5035	
880-27469-1 MSD	BH-27	Total/NA	Solid	5035	

Analysis Batch: 51866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27469-1	BH-27	Total/NA	Solid	Total BTEX	
880-27469-2	BH-28	Total/NA	Solid	Total BTEX	
880-27469-3	BH-29	Total/NA	Solid	Total BTEX	
880-27469-4	BH-30	Total/NA	Solid	Total BTEX	
880-27469-5	BH-31	Total/NA	Solid	Total BTEX	
880-27469-6	BH-32	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

GC VOA (Continued)

Analysis Batch: 51866 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27469-7	BH-33	Total/NA	Solid	Total BTEX	
880-27469-8	BH-34	Total/NA	Solid	Total BTEX	
880-27469-9	SW-11	Total/NA	Solid	Total BTEX	
880-27469-10	SW-12	Total/NA	Solid	Total BTEX	
880-27469-11	SW-13	Total/NA	Solid	Total BTEX	
880-27469-12	SW-14	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 51760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27469-1	BH-27	Total/NA	Solid	8015NM Prep	
880-27469-2	BH-28	Total/NA	Solid	8015NM Prep	
880-27469-3	BH-29	Total/NA	Solid	8015NM Prep	
880-27469-4	BH-30	Total/NA	Solid	8015NM Prep	
880-27469-5	BH-31	Total/NA	Solid	8015NM Prep	
880-27469-6	BH-32	Total/NA	Solid	8015NM Prep	
880-27469-7	BH-33	Total/NA	Solid	8015NM Prep	
880-27469-8	BH-34	Total/NA	Solid	8015NM Prep	
880-27469-9	SW-11	Total/NA	Solid	8015NM Prep	
880-27469-10	SW-12	Total/NA	Solid	8015NM Prep	
880-27469-11	SW-13	Total/NA	Solid	8015NM Prep	
880-27469-12	SW-14	Total/NA	Solid	8015NM Prep	
MB 880-51760/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51760/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51760/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27469-1 MS	BH-27	Total/NA	Solid	8015NM Prep	
880-27469-1 MSD	BH-27	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27469-1	BH-27	Total/NA	Solid	8015B NM	51760
880-27469-2	BH-28	Total/NA	Solid	8015B NM	51760
880-27469-3	BH-29	Total/NA	Solid	8015B NM	51760
880-27469-4	BH-30	Total/NA	Solid	8015B NM	51760
880-27469-5	BH-31	Total/NA	Solid	8015B NM	51760
880-27469-6	BH-32	Total/NA	Solid	8015B NM	51760
880-27469-7	BH-33	Total/NA	Solid	8015B NM	51760
880-27469-8	BH-34	Total/NA	Solid	8015B NM	51760
880-27469-9	SW-11	Total/NA	Solid	8015B NM	51760
880-27469-10	SW-12	Total/NA	Solid	8015B NM	51760
880-27469-11	SW-13	Total/NA	Solid	8015B NM	51760
880-27469-12	SW-14	Total/NA	Solid	8015B NM	51760
MB 880-51760/1-A	Method Blank	Total/NA	Solid	8015B NM	51760
LCS 880-51760/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51760
LCSD 880-51760/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51760
880-27469-1 MS	BH-27	Total/NA	Solid	8015B NM	51760
880-27469-1 MSD	BH-27	Total/NA	Solid	8015B NM	51760

QC Association Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

GC Semi VOA

Analysis Batch: 51853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27469-1	BH-27	Total/NA	Solid	8015 NM	
880-27469-2	BH-28	Total/NA	Solid	8015 NM	
880-27469-3	BH-29	Total/NA	Solid	8015 NM	
880-27469-4	BH-30	Total/NA	Solid	8015 NM	
880-27469-5	BH-31	Total/NA	Solid	8015 NM	
880-27469-6	BH-32	Total/NA	Solid	8015 NM	
880-27469-7	BH-33	Total/NA	Solid	8015 NM	
880-27469-8	BH-34	Total/NA	Solid	8015 NM	
880-27469-9	SW-11	Total/NA	Solid	8015 NM	
880-27469-10	SW-12	Total/NA	Solid	8015 NM	
880-27469-11	SW-13	Total/NA	Solid	8015 NM	
880-27469-12	SW-14	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 51741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27469-1	BH-27	Soluble	Solid	DI Leach	
880-27469-2	BH-28	Soluble	Solid	DI Leach	
880-27469-3	BH-29	Soluble	Solid	DI Leach	
880-27469-4	BH-30	Soluble	Solid	DI Leach	
880-27469-5	BH-31	Soluble	Solid	DI Leach	
880-27469-6	BH-32	Soluble	Solid	DI Leach	
880-27469-7	BH-33	Soluble	Solid	DI Leach	
880-27469-8	BH-34	Soluble	Solid	DI Leach	
880-27469-9	SW-11	Soluble	Solid	DI Leach	
880-27469-10	SW-12	Soluble	Solid	DI Leach	
880-27469-11	SW-13	Soluble	Solid	DI Leach	
880-27469-12	SW-14	Soluble	Solid	DI Leach	
MB 880-51741/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51741/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51741/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27469-7 MS	BH-33	Soluble	Solid	DI Leach	
880-27469-7 MSD	BH-33	Soluble	Solid	DI Leach	

Analysis Batch: 51881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27469-1	BH-27	Soluble	Solid	300.0	51741
880-27469-2	BH-28	Soluble	Solid	300.0	51741
880-27469-3	BH-29	Soluble	Solid	300.0	51741
880-27469-4	BH-30	Soluble	Solid	300.0	51741
880-27469-5	BH-31	Soluble	Solid	300.0	51741
880-27469-6	BH-32	Soluble	Solid	300.0	51741
880-27469-7	BH-33	Soluble	Solid	300.0	51741
880-27469-8	BH-34	Soluble	Solid	300.0	51741
880-27469-9	SW-11	Soluble	Solid	300.0	51741
880-27469-10	SW-12	Soluble	Solid	300.0	51741
880-27469-11	SW-13	Soluble	Solid	300.0	51741
880-27469-12	SW-14	Soluble	Solid	300.0	51741
MB 880-51741/1-A	Method Blank	Soluble	Solid	300.0	51741
LCS 880-51741/2-A	Lab Control Sample	Soluble	Solid	300.0	51741

QC Association Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

HPLC/IC (Continued)

Analysis Batch: 51881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-51741/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51741
880-27469-7 MS	BH-33	Soluble	Solid	300.0	51741
880-27469-7 MSD	BH-33	Soluble	Solid	300.0	51741

Lab Chronicle

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: BH-27

Lab Sample ID: 880-27469-1
Date Collected: 04/14/23 00:00
Matrix: Solid
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 00:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 21:23	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51881	04/24/23 21:56	SMC	EET MID

Client Sample ID: BH-28

Lab Sample ID: 880-27469-2
Date Collected: 04/14/23 00:00
Matrix: Solid
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 00:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51881	04/24/23 22:10	SMC	EET MID

Client Sample ID: BH-29

Lab Sample ID: 880-27469-3
Date Collected: 04/14/23 00:00
Matrix: Solid
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 00:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 22:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51881	04/24/23 22:14	SMC	EET MID

Client Sample ID: BH-30

Lab Sample ID: 880-27469-4
Date Collected: 04/14/23 00:00
Matrix: Solid
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: BH-30

Lab Sample ID: 880-27469-4
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 23:09	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51881	04/24/23 22:19	SMC	EET MID

Client Sample ID: BH-31

Lab Sample ID: 880-27469-5
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 01:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 23:30	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51881	04/24/23 22:23	SMC	EET MID

Client Sample ID: BH-32

Lab Sample ID: 880-27469-6
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 01:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 23:51	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51881	04/24/23 22:28	SMC	EET MID

Client Sample ID: BH-33

Lab Sample ID: 880-27469-7
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 02:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/23/23 00:12	SM	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: BH-33

Lab Sample ID: 880-27469-7
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.97 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51881	04/24/23 22:32	SMC	EET MID

Client Sample ID: BH-34

Lab Sample ID: 880-27469-8
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 02:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/23/23 00:33	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	51881	04/24/23 22:46	SMC	EET MID

Client Sample ID: SW-11

Lab Sample ID: 880-27469-9
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 02:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/23/23 00:53	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51881	04/24/23 22:51	SMC	EET MID

Client Sample ID: SW-12

Lab Sample ID: 880-27469-10
Matrix: Solid
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 03:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/23/23 01:14	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	51881	04/24/23 23:04	SMC	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Client Sample ID: SW-13

Lab Sample ID: 880-27469-11

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 04:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/23/23 01:54	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51881	04/24/23 23:09	SMC	EET MID

Client Sample ID: SW-14

Lab Sample ID: 880-27469-12

Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 05:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51866	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51853	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/23/23 02:15	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51881	04/24/23 23:13	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: BC Berry

Job ID: 880-27469-1
SDG: 12597046

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27469-1	BH-27	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-2	BH-28	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-3	BH-29	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-4	BH-30	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-5	BH-31	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-6	BH-32	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-7	BH-33	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-8	BH-34	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-9	SW-11	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-10	SW-12	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-11	SW-13	Solid	04/14/23 00:00	04/21/23 11:26
880-27469-12	SW-14	Solid	04/14/23 00:00	04/21/23 11:26

eurofins

Environment Testing
Xenco

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 27469

www.xenco.com Page 1 of 2

Project Manager	Stephen Asante-Ansong	Bill to (if different)	
Company Name	GHD	Company Name.	
Address	6121 Indian School Rd NE St 200	Address	
City, State ZIP	Albuquerque, NM 87110	City, State ZIP	
Phone	(281)386-7158	Email	Stephen Asante-ansong@ghd com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name.	BC Berry	Turn Around	
Project Number	12597046'	☑ Routine ☐ Rush	
Project Location	Artesia, NM	Due Date	3-day TAT
Sampler's Name	Daniel Sparks	TAT starts the day received by the lab if received by 4 30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID	IR6
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	-0.3
Sample Custody Seals	Yes No (N/A)	Temperature Reading	5.3
Total Containers		Corrected Temperature	5.0

ANALYSIS REQUEST

880-27469 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
BH27	SO	4/14/2023			Comp	1	x	x	x	Incident ID
BH28	SO	4/14/2023			Comp	1	x	x	x	
BH29	SO	4/14/2023			Comp	1	x	x	x	Cost Center
BH30	SO	4/14/2023			Comp	1	x	x	x	
BH31	SO	4/14/2023			Comp	1	x	x	x	AFE
BH32	SO	4/14/2023			Comp	1	x	x	x	
BH33	SO	4/14/2023			Comp	1	x	x	x	
BH34	SO	4/14/2023			Comp	1	x	x	x	
SW11	SO	4/14/2023			Comp	1	x	x	x	
SW12	SO	4/14/2023			Comp	1	x	x	x	

Preservative Codes

None NO	DI Water H_2O
Cool Cool	MeOH Me
HCL HC	HNO_3 HN
H_2SO_4 H_2	NaOH Na
H_3PO_4 HP	
$NaHSO_4$ NABIS	
$Na_2S_2O_3$ $NaSO_3$	
Zn Acetate+NaOH Zn	
NaOH+Ascorbic Acid SAPC	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed These terms will be enforced unless previously negotiated

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 D Sanchez	[signature]	4/21/23 11:26	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020 2

Received by OCD: 7/24/2023 10:28:31 AM

Released to Imaging: 1/31/2024 4:48:02 PM

4/25/2023

eurofins

Environment Testing
Xenco

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199

Work Order No: 27409

www.xenco.com Page 2 of 2

Project Manager	Stephen Asante-Ansong	Bill to (if different)	
Company Name	GHD	Company Name	
Address	6121 Indian School Rd NE St 200	Address	
City, State ZIP	Albuquerque, NM 87110	City, State ZIP	
Phone	(281)386-7158	Email	Stephen.Asante-ansong@ghd.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	BC Berry	Turn Around	
Project Number	12597046'	☑ Check Box ☐ Check Box	
Project Location	Artesia, NM	Due Date	3-day TAT
Sampler's Name	Daniel Sparks	TAT starts the day received by the lab if received by 4 30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID	IR2	
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	-.53	
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	50.5	
Total Containers		Corrected Temperature	50	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA. 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SW13	SO	4/14/2023			Comp	1	x	x	x	Incident ID
SW14	SO	4/14/2023			Comp	1	x	x	x	
										Cost Center
										AFE

Preservative Codes

None NO	DI Water H_2O
Cool Cool	MeOH Me
HCL HC	HNO_3 HN
H_2SO_4 H_2	NaOH Na
H_3PO_4 HP	
$NaHSO_4$ NABIS	
$Na_2S_2O_3$ $NaSO_3$	
Zn Acetate+NaOH Zn	
NaOH+Ascorbic Acid SAPC	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85 00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		4/21/23	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020.2

Received by OCD: 7/24/2023 10:28:31 AM

Released to Imaging: 1/31/2024 4:48:02 PM

4/25/2023

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-27469-1
SDG Number: 12597046

Login Number: 27469
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Attachment C

Photographic Log

Site Photographs

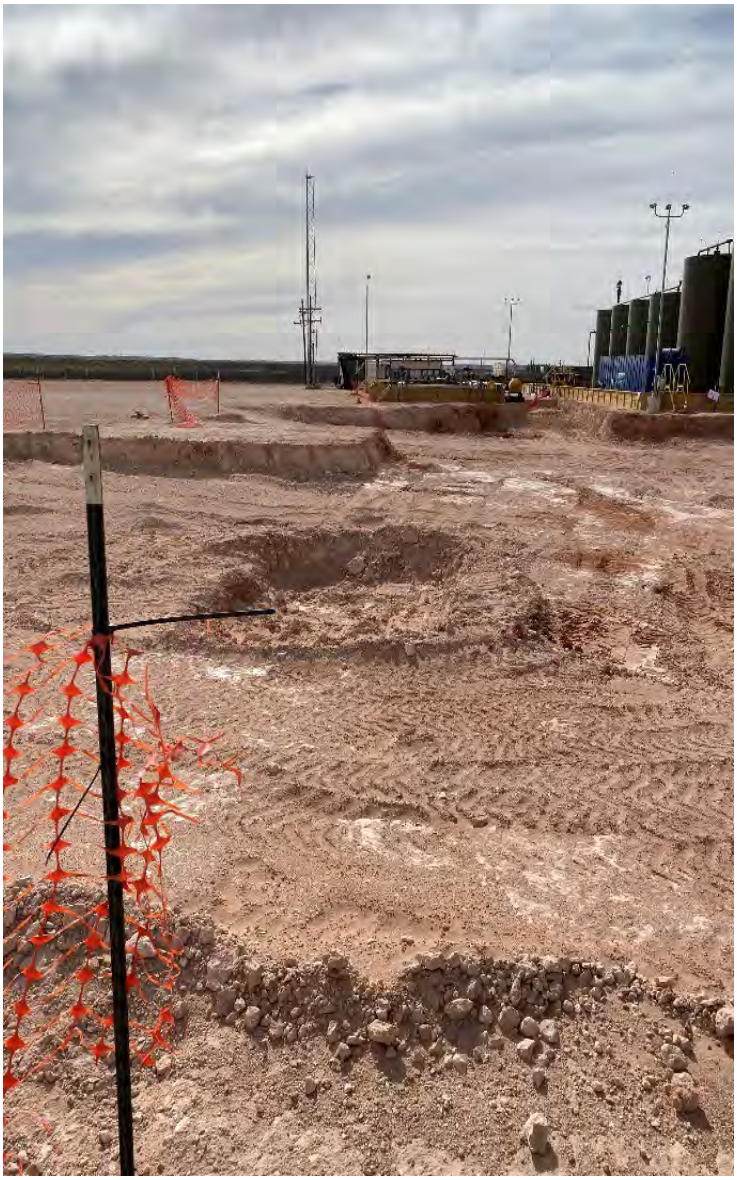

Photo 1

Released to Imaging: 1/31/2024 4:48:02 PM

Photo 2

Photo 3

Released to Imaging: 1/31/2024 4:48:02 PM

Photo 4

Photo 5

Released to Imaging: 1/31/2024 4:48:02 PM

Photo 6

Photo 7

Released to Imaging: 1/31/2024 4:48:02 PM

Attachment D

Sampling Notifications

Nate Reece

From: J.T. Murrey
Sent: Monday, May 22, 2023 11:29 AM
To: Stephen Asante-Ansong
Subject: Fw: [EXTERNAL] Sample Notification

J.T. Murrey

GHD
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2135 S. Loop 250 West, Midland, TX 79703 USA

M 361 252 6136 | **E** jt.murrey@ghd.com

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Canada: 800 679 9082

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From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, December 12, 2022 4:34 PM
To: J.T. Murrey <JT.Murrey@ghd.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Sample Notification

> You don't often get email from ocd.enviro@emnrd.nm.gov. Learn why this is important

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: J.T. Murrey <JT.Murrey@ghd.com>
Sent: Monday, December 12, 2022 3:08 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Cassie Whitefield <Cassie.Whitefield@deleklogistics.com>
Subject: FW: [EXTERNAL] Sample Notification

To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:.

BC Berry
I-35-20S-34E
Lea County, NM

Sampling will be conducted at 1:00 p.m. on Thursday, December 15, 2022.

Thanks

J.T. Murrey

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2135 S. Loop 250 West, Midland, TX 79703 USA
M 361 252 6136 | **E** jt.murrey@ghd.com

All GHD offices will be closed from December 26, 2022 thru January 6, 2023. Offices will re-open on January 9, 2023.

Merry Christmas and Happy New Year!!!

GHD FIRST 24 Hour Emergency Response
US: 866 812 9565
Canada: 800 679 9082

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From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Thursday, November 3, 2022 3:27 PM
To: J.T. Murrey <JT.Murrey@ghd.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Sample Notification

> You don't often get email from jennifer.nobui@emnrd.nm.gov. Learn why this is important

J.T.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, November 3, 2022 10:59 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Sample Notification

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us
http:// **www.emnrd.nm.gov**

From: J.T. Murrey <JT.Murrey@ghd.com>
Sent: Thursday, November 3, 2022 10:03 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Cassie Whitefield <Cassie.Whitefield@deleklogistics.com>
Subject: [EXTERNAL] Sample Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:.

BC Berry
I-35-20S-34E
Lea County, NM

Sampling will be conducted at 9:00 a.m. on Monday, November 7, 2022 through Tuesday, November 8, 2022.

Thanks

J.T. Murrey

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Nate Reece

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, January 25, 2023 10:11 AM
To: Stephen Asante-Ansong
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Nobui, Jennifer, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] Sampling Notification - Delek BC Berry Release Site

> You don't often get email from ocd.enviro@emnrd.nm.gov. Learn why this is important

Stephen,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Stephen Asante-Ansong <Stephen.Asante-Ansong@ghd.com>
Sent: Wednesday, January 25, 2023 7:45 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Cassie Whitefield <Cassie.Whitefield@deleklogistics.com>; J.T. Murrey <JT.Murrey@ghd.com>
Subject: [EXTERNAL] Sampling Notification - Delek BC Berry Release Site

> CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:

Delek – BC Berry Release Site
Release Date: 10-21-22
I-35-20S-34E
Lea County

Soil screening/sampling will begin at 10:00 a.m. on Tuesday, February 1, 2023.

Thanks

STEPHEN ASANTE-ANSONG, CHMM

Project Manager

GHD

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D 713.734.3090 M 703.731.4388 **E** stephen.asante-ansong@ghd.com

11451 Katy Freeway, Suite 400, Houston, TX 77079 USA

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Nate Reece

From: J.T. Murrey
Sent: Tuesday, February 21, 2023 10:29 AM
To: Stephen Asante-Ansong
Subject: FW: [EXTERNAL] Sample Notifications - nAPP2230739779 and nAPP2304638400

J.T. Murrey

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2135 S. Loop 250 West, Midland, TX 79703 USA

M 361 252 6136 | **E** jt.murrey@ghd.com

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From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Monday, February 20, 2023 5:35 PM
To: J.T. Murrey <JT.Murrey@ghd.com>
Cc: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Sample Notifications - nAPP2230739779 and nAPP2304638400

J.T.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: J.T. Murrey <JT.Murrey@ghd.com>
Sent: Monday, February 20, 2023 1:05 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Stephen Asante-Ansong <Stephen.Asante-Ansong@ghd.com>; Daniel Sparks <Daniel.Sparks@ghd.com>
Subject: [EXTERNAL] Sample Notifications - nAPP2230739779 and nAPP2304638400

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:

Delek – BC Berry Release Site
nAPP2230739779
Release Date: 10-21-22
I-35-20S-34E
Lea County
Hobbs District

Delek – Lynch 35 Release Site
nAPP2304638400
Release Date: 2-15-23
A-35-20S-34E
Lea County
Hobbs District

Soil screening/sampling will begin at 2:30:00 p.m. at the BC Berry site on Wednesday, February 22, 2023 and then proceed to the Lynch 35 site.

Thanks

J.T. Murrey

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2135 S. Loop 250 West, Midland, TX 79703 USA

M 361 252 6136 | **E** jt.murrey@ghd.com

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Nate Reece

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, March 14, 2023 10:04 AM
To: Stephen Asante-Ansong
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Sampling Notification

Stephen,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Stephen Asante-Ansong <Stephen.Asante-Ansong@ghd.com>
Sent: Monday, March 13, 2023 3:41 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Sampling Notification

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To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:

Delek – Doodlebug SWD Release Site
nAPP2301649023
Release Date: 12-28-22
S-15-22S-33E
Lea County

Delek – BC Berry Release Site
Release Date: 10-21-22
I-35-20S-34E
Lea County

Soil screening/sampling will begin at 10:00 a.m. on Thursday through Monday, March 16 - 20, 2023.

STEPHEN ASANTE-ANSONG, CHMM
Project Manager

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D 713.734.3090 M 703.731.4388 **E** stephen.asante-ansong@ghd.com
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Nate Reece

From: J.T. Murrey
Sent: Monday, May 22, 2023 11:29 AM
To: Stephen Asante-Ansong
Subject: Fw: [EXTERNAL] RE: Sampling Notification - Delek BC Berry Release Site

J.T. Murrey

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2135 S. Loop 250 West, Midland, TX 79703 USA

M 361 252 6136 | **E** jt.murrey@ghd.com

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From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Wednesday, April 12, 2023 9:38 AM
To: J.T. Murrey <JT.Murrey@ghd.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Sampling Notification - Delek BC Berry Release Site

J.T.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// www.emnrd.nm.gov

From: J.T. Murrey <JT.Murrey@ghd.com>
Sent: Tuesday, April 11, 2023 3:08 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] RE: Sampling Notification - Delek BC Berry Release Site

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:

Delek – BC Berry Release Site
Release Date: 10-21-22
I-35-20S-34E
Lea County

Soil screening/sampling will begin at 07:00 a.m. on Friday, April 14, 2023.

Thanks

J.T. Murrey

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2135 S. Loop 250 West, Midland, TX 79703 USA

M 361 252 6136 | **E** jt.murrey@ghd.com

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Canada: 800 679 9082

The Power of Commitment

Connect

Please consider the environment before printing this email

From: Stephen Asante-Ansong <Stephen.Asante-Ansong@ghd.com>
Sent: Wednesday, January 25, 2023 8:45 AM
To: OCD.enviro@state.nm.us
Cc: Cassie Whitefield <Cassie.Whitefield@deleklogistics.com>; J.T. Murrey <JT.Murrey@ghd.com>
Subject: Sampling Notification - Delek BC Berry Release Site

To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:

Delek – BC Berry Release Site
Release Date: 10-21-22
I-35-20S-34E
Lea County

Soil screening/sampling will begin at 10:00 a.m. on Tuesday, February 1, 2023.

Thanks

STEPHEN ASANTE-ANSONG, CHMM
Project Manager

GHD
Proudly employee owned | ghd.com
D 713.734.3090 M 703.731.4388 **E** stephen.asante-ansong@ghd.com
11451 Katy Freeway, Suite 400, Houston, TX 77079 USA

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1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 243594

CONDITIONS

Operator: DKL Energy - Cottonwood, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID: 330291
	Action Number: 243594
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	Area around tank battery represented by sample ID's BH24, BH25, BH26, SW02A, SW06B, SW07F, and SW12 is approved for deferral. Site will need to be remediated and then reclaimed at time of a major facility deconstruction or at plugging and abandonment, whichever comes first.	1/31/2024