

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	nAPP2210251385
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Nikki Mishler	Contact Telephone: 432-634-8722
Contact email: Nikki.Mishler@cdevinc.com	Incident # nAPP2210251385
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland Texas 79705	

Location of Release Source

Latitude 32.3698 Longitude -103.408
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Merchant Livestock 30 State 2H	Site Type: Production Facility
Date Release Discovered: 04/12/2022	API# (if applicable) 30-025-41676

Unit Letter	Section	Township	Range	County
C	30	22S	35E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: Merchant Livestock)

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) 1	Volume Recovered (bbls) 1
☒ Produced Water	Volume Released (bbls) 118	Volume Recovered (bbls) 107
	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:

The release was due to a frac hit from nearby well activities which swamped out the vessels, traveled down the gas sales line and overfilled the open top tank.

Based on the approximate square footage of the impacted soil (18,200 sq. ft. on pad, 8,000 sq. ft. off pad), an estimated depth of impact ranging from 0.5' (production pad) to 1.5' (off pad), accounting for porosity and saturation % of the soil types (caliche and sand) and fluid recovery volumes; approximately 1 bbl of crude oil and 118 bbl of produced water was released.

Form C-141

State of New Mexico

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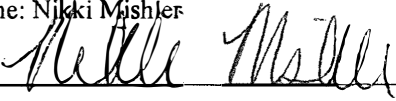
Oil Conservation Division

Incident ID	nAPP2210251385
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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? Yes
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NOR Submission ID 97929 on 4/12/22 by Nikki Mishler	

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 <u>not</u> 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: Nikki Mishler Title: Sr. Environmental Representative Signature:  Date: 4/21/22 email: Nikki.Mishler@cdevinc.com Telephone: 432-634-8722
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	nAPP2210251385
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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?	Unknown (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.

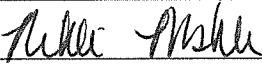
Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	nAPP2210251385
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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: Nikki Mishler Title: Sr. Envionmental RepresentativeSignature:  Date: 6/30/22email: Nikki.Mishler@cdevinc.comTelephone: 432-634-8722**OCD Only**

Received by: _____ Date: _____

Incident ID	nAPP2210251385
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Remediation Plan

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

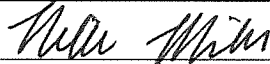
- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note 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: Nikki Mishler Title: Sr. Environmental Representative

Signature:  Date: 6/30/22

email: Nikki.Mishler@cdevinc.com Telephone: 432-634-8722

OCD Only

Received by: _____ Date: _____

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

Signature:  Date: 08/30/2022

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

Our ref: 12581651

June 10, 2022

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

Re: **Site Characterization and Remediation Work Plan
Merchant Livestock 30 State 2H Release Site
Centennial Resources Production, Inc.
Incident ID: nAPP2210251385
C-30-22S-35E, Lea County, New Mexico
Centennial Project #: CDEV ID 79516**

To Whom It May Concern:

1. Introduction

GHD Services, Inc. (GHD), on behalf of Centennial Resources Production (CRP), submits this Site Characterization and Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 1 Office. This Report provides documentation of sampling, delineation, and analyses in the affected area at the CRP Merchant Livestock 30 State 2H Release Site (Site). The Site is located in Unit Letter C Section 30 of Township 22 South and Range 35 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.3698 N latitude and 103.408 W longitude. The surface owner of the land where the release occurred is the New Mexico State Land Office (NMSLO). Figure 1 depicts the Site location. The CRP production facility and other site details are depicted on Figure 2, Site Assessment: Soil Analytical Results Map.

2. Background Information

Immediate notice was given to the OCD via NOR Submission, ID97929. A C-141 Release Notification for this release was submitted to the NMOCD on April 21, 2022. The C-141 stated that approximately one (1) barrel of crude oil and one hundred-eighteen (118) barrels of produced water were released. The release occurred as the result of a frac hit from nearby well activities which swamped out the vessels and traveled down the gas sales line, overfilling the open top tank. Approximately one (1) barrel of crude oil and one hundred-seven (107) barrels of produced water were recovered.

The release falls under the jurisdiction of the NMOCD District 1 Office in Hobbs, New Mexico. The NMOCD assigned the release with Incident Number nAPP2210251385. The Release Notification, Site Assessment/Characterization, and Remediation portions of Form C-141 are attached to the front of this report.

3. Groundwater and Site Characterization

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. No groundwater data could be located within one-half (0.50) mile of the Site, so the release must be treated as if it occurred in an area with depth to groundwater less than fifty (50) feet below ground surface. No other receptors (water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. The Site characterization documentation (Karst Potential, Points of Diversion, FEMA, and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	Unknown, treated as less than fifty (50) feet

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

4. Initial Soil Delineation Assessment Summary and Findings

On April 25 and 26, 2022, GHD Services Inc. (GHD) and CRP's contractor SDR Enterprises (SDR), on behalf of CRP, installed twenty-six (26) test pits within the suspected impacted area. Samples were collected at varying depths from surface to five (5) feet below ground surface. Samples were submitted to Eurofins, located in Carlsbad, New Mexico and analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method. Analytical results indicated nine (9) of the soil samples (TP2-S, TP6-2, TP7-2, TP8-S, TP8-2, TP11-2, TP12-S, TP12-2, and TP12-4) exhibited chloride concentrations above Table I Closure Criteria. Figure 2 depicts the locations of the initial assessment samples and the analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment B.

5. nAPP2210251385 Proposed Remediation Work Plan

Soils impacted within the suspected impact area containing chloride concentrations over 600 mg/kg will be excavated. GHD, on behalf of CRP, proposes to excavate the areas to the following depths:

- TP2 will be excavated from one-half (0.5) foot to two (2) feet below surface or until concentrations are below Table I Closure Criteria.
- TP6, TP7, TP8, and TP11 will be excavated from two (2) to four (4) feet below ground surface or until concentrations are below Table I closure Criteria. Note: a hard layer was encountered at TP8 and TP11 at two (2) feet below ground surface, which inhibited further evaluation at depth.
- TP-12 will be excavated from four (4) to five (5) feet below ground surface or until concentrations are below Table I Closure Criteria.

Figure 2, Site Assessment: Soil Analytical Results Map, shows the affected areas and proposed excavation depths.

Confirmation samples from the bottom and the sidewalls of the excavation will be collected by way of five (5) point composite samples. Bottom hole and sidewall confirmation composite samples will represent areas no greater than two hundred (200) square feet to ensure all chloride impacted soil above Table I Closure Criteria has been removed. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed. Confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, chloride by EPA Method 300.

The total surface area anticipated for excavation is approximately 15,526 square feet. Excavated soils will be transported to a NMOCD-approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 2,771 cubic yards. The excavation will be backfilled with non-impacted soil transported to the Site. The remediation will be performed within 90 days after the work plan has been approved. If the confirmation samples collected from the bottom and sidewalls of the excavation are below Table I Closure Criteria, a closure report will be prepared to document remediation activities and submitted to the NMOCD.

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

Sincerely,

GHD



Nate Reece
Environmental Scientist

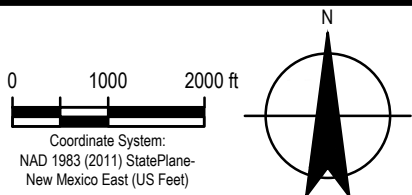
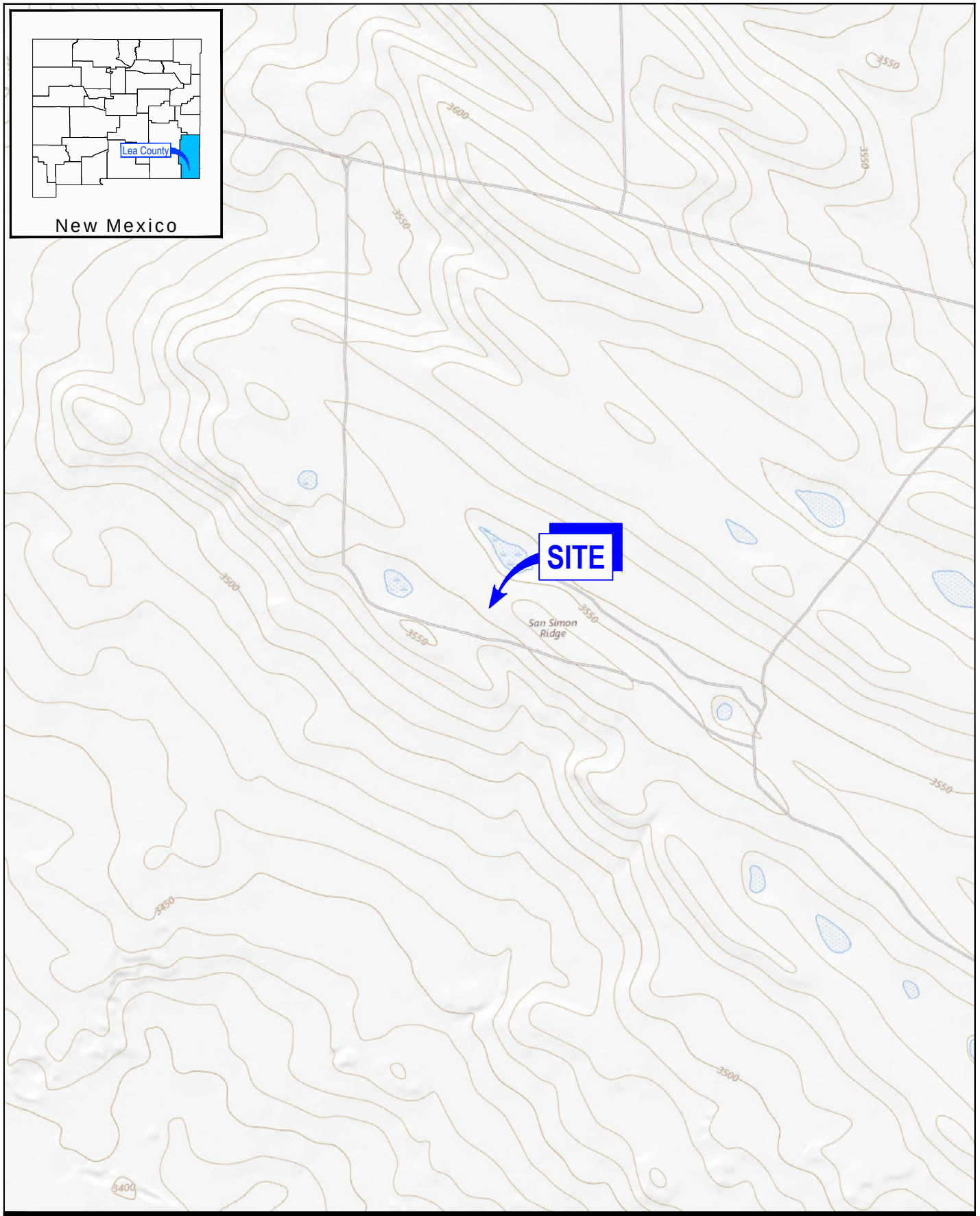


Becky Haskell
Senior Project Manager

Encl. Figure 1 – Site Location Map
 Figure 2 – Site Assessment: Soil Analytical Results and Proposed Excavation Map
 Table 1 – Summary of Soil Analytical Data
 Attachment A – Site Characterization Documentation
 Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Nikki Mishler

Figures



CONTENNIAL RESOURCES PRODUCTION
LEA COUNTY, NEW MEXICO
MERCHANT LIVESTOCK 30

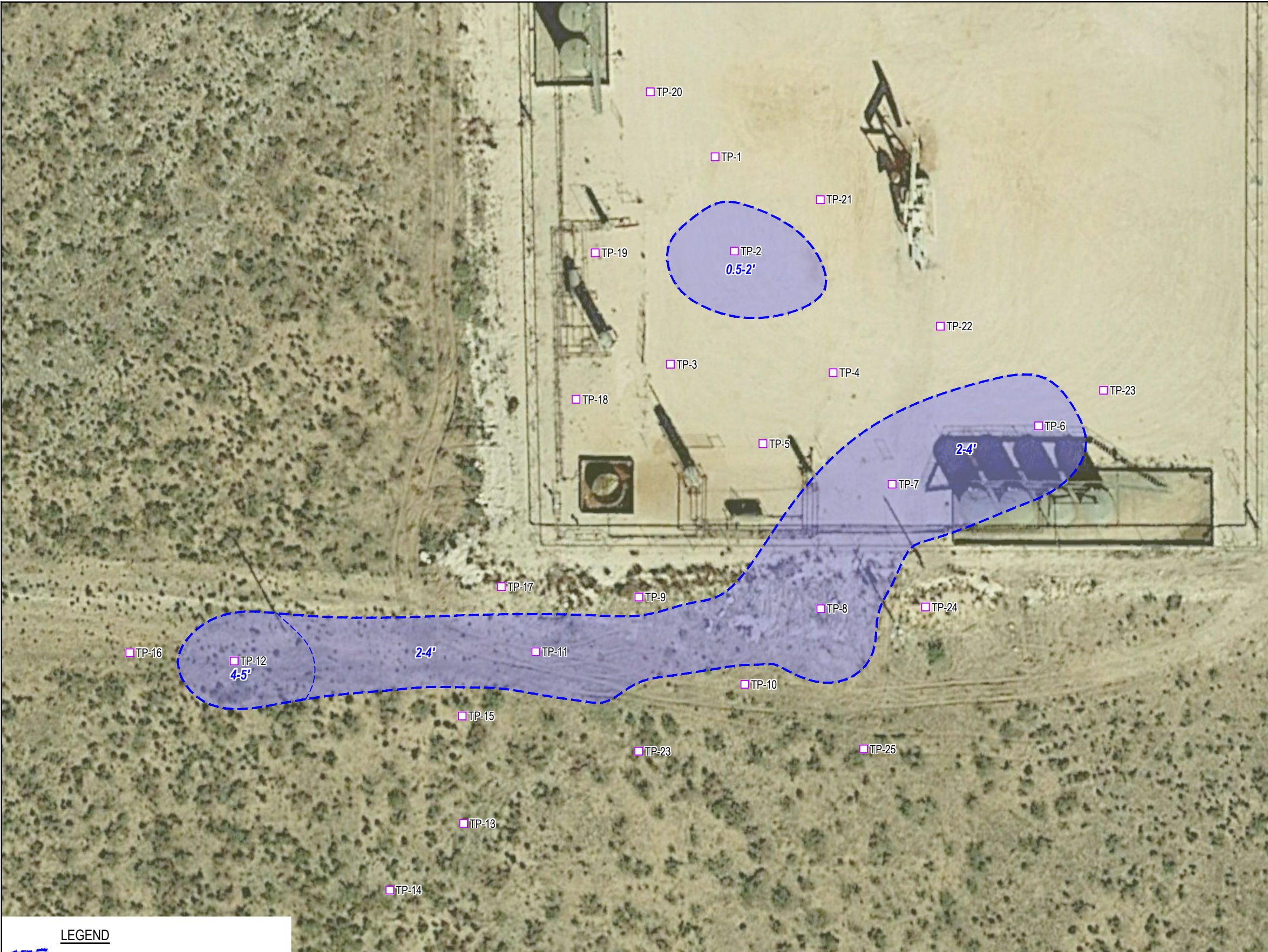
Project No. 12581651
Date June 2022

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\USMidland\Projects\562\12581651\Digital_Design\ACAD\Figures\RPT001\12581651-GHD-0000-RPT-EN-0101_DL-001.dwg

Data Source: USGS 7.5 Minute Quad "San Simon Sink and San Simon Ranch, New Mexico"
Lat/Long: 32.369538° North, 103.408025° West



Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	Total Petroleum Hydrocarbons (TPH)	Chloride
					Total GROD/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Table I Closure Criteria for Soil <50 ft Depth to Groundwater 19.15.29 NMAC			10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg
Initial Assessment Samples						
TP1-S	4/25/2021	Surface	<0.00199	<0.00398	65.6	424
TP1-2	4/25/2021	2	<0.00200	<0.00401	33.4	290
TP1-3	4/25/2021	3	<0.00198	<0.00397	17.4	337
TP2-S	4/25/2021	Surface	<0.00202	<0.00403	40.9	743
TP2-2	4/25/2021	2	<0.00200	<0.00400	16.3	318
TP3-2	4/25/2021	2	<0.00202	<0.00404	<49.9	323
TP3-4	4/25/2021	4	<0.00202	<0.00404	15.0	176
TP4-2	4/25/2021	2	<0.00198	<0.00396	32.1	399
TP4-4	4/25/2021	4	<0.00200	<0.00400	15.2	465
TP5-S	4/25/2021	Surface	<0.00200	<0.00399	16.6	571
TP5-2	4/25/2021	2	<0.00201	<0.00402	15.1	161
TP6-2	4/25/2021	2	<0.00202	<0.00403	<49.9	604
TP6-4	4/25/2021	4	<0.00200	<0.00400	<50.0	35.8
TP7-2	4/25/2021	2	<0.00201	<0.00402	39.2	1,280
TP7-4	4/25/2021	4	<0.00199	<0.00398	41.3	252
TP-8-S	4/26/2022	Surface	<0.00200	<0.00400	54.0	2,170
TP-8-2	4/26/2022	2	<0.00199	<0.00398	54.6	943
TP-9-S	4/26/2022	Surface	<0.00200	<0.00399	24.9	0.775
TP-9-2	4/26/2022	2	<0.00198	<0.00397	40.4	53.6
TP-10-S	4/26/2022	Surface	<0.00200	<0.00399	25.2	14.1
TP-10-2	4/26/2022	2	<0.00201	<0.00402	27.0	10.5
TP-11-S	4/26/2022	Surface	<0.00199	<0.00398	29.9	290
TP-11-2	4/26/2022	2	<0.00199	<0.00398	30.8	2,920
TP-12-S	4/26/2022	Surface	<0.00199	<0.00398	34.6	6,590
TP-12-2	4/26/2022	2	<0.00201	<0.00402	31.2	2,290
TP-12-4	4/26/2022	4	<0.00200	<0.00399	27.2	1,850
TP-12-5	4/26/2022	5	<0.00200	<0.00400	33.8	214
TP-13-S	4/26/2022	Surface	<0.00200	<0.00400	63.7	9.25
TP-13-2	4/26/2022	2	<0.00199	<0.00398	25.7	62.8
TP-14-S	4/26/2022	Surface	<0.00200	<0.00401	27.1	41.8
TP-14-2	4/26/2022	2	<0.00199	<0.00398	40.9	7.55
TP-14-4	4/26/2022	4	<0.00201	<0.00402	23.6	5.03
TP-15-S	4/26/2022	Surface	<0.00201	0.0105	26.4	22.0
TP-15-2	4/26/2022	2	<0.00200	<0.00401	30.0	23.8
TP-15-4	4/26/2022	4	<0.00201	<0.00402	26.0	97.7
TP-16-S	4/26/2022	Surface	<0.00201	0.0151	37.0	7.87
TP-16-2	4/26/2022	2	<0.00202	<0.00404	34.6	263
TP-17-S	4/26/2022	Surface	<0.00199	<0.00398	35.9	16.8
TP-17-2	4/26/2022	2	<0.00202	<0.00403	30.7	4.35
TP-17-3	4/26/2022	3	<0.00202	<0.00404	29.9	24.1
TP18-S	4/26/2022	Surface	<0.00200	<0.00401	43.6	13.1
TP18-2	4/26/2022	2	<0.00200	<0.00400	46.6	21.6
TP19-S	4/26/2022	Surface	<0.00199	<0.00398	35.5	88.3
TP19-2	4/26/2022	2	<0.00199	<0.00398	67.6	241
TP-20-S	4/25/2021	Surface	<0.00202	<0.00404	36.6	51.7
TP-20-2	4/25/2021	2	<0.00201	<0.00402	19.7	252
TP-21-S	4/25/2021	Surface	<0.00199	<0.00398	15.6	196
TP-21-2	4/25/2021	2	<0.00201	<0.00402	15.2	163
TP-22-S	4/25/2021	Surface	<0.00202	<0.00403	16.4	387
TP-22-2	4/25/2021	2	<0.00200	<0.00399	34.8	530
TP-23-S	4/25/2021	Surface	<0.00201	<0.00402	<50.0	38.0
TP-23-2	4/25/2021	2	<0.00202	<0.00404	43.1	330
TP-24-S	4/26/2022	Surface	<0.00202	<0.00403	<49.9	5.26
TP-24-2	4/26/2022	2	<0.00200	<0.00401	28.7	36.3
TP-25-S	4/26/2022	Surface	<0.00200	<0.00399	40.0	13.2
TP-25-2	4/26/2022	2	<0.00198	<0.00397	129.9	11.4
TP-26-S	4/26/2022	Surface	<0.00199	<0.00398	81.6	7.20
TP-26-2	4/26/2022	2	<0.00201	<0.00402	23.6	31.8

CONTENNIAL RESOURCES PRODUCTION
LEA COUNTY, NEW MEXICO
MERCHANT LIVESTOCK 30

SITE ASSESSMENT:
SOIL ANALYTICAL RESULTS MAP

Project No. 12581651
Date June 2022

FIGURE 2

Tables

Table 1
Summary of Soil Analytical Data
Merchant Livestock 30 State 2H
Centennial Resources Production, Inc.
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO+DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
Table I Closure Criteria for Soil <50 ft Depth to Groundwater 19.15.29 NMAC			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Initial Assessment Samples													
TP1-S	4/25/2021	Surface	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	15.3	32.1	47.4	18.2	65.6	424
TP1-2	4/25/2021	2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	15.9	<50.0	15.9	17.5	33.4	290
TP1-3	4/25/2021	3	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.9	<49.9	<49.9	17.4	17.4	337
TP2-S	4/25/2021	Surface	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	23.9	23.9	17.0	40.9	743
TP2-2	4/25/2021	2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	<50.0	<50.0	16.3	16.3	318
TP3-2	4/25/2021	2	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	323
TP3-4	4/25/2021	4	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	15.0	15.0	176
TP4-2	4/25/2021	2	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	17.1	<49.9	17.0	15.1	32.1	399
TP4-4	4/25/2021	4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	<49.9	<49.9	15.2	15.2	465
TP5-S	4/25/2021	Surface	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.6	<49.9	16.6	<49.9	16.6	571
TP5-2	4/25/2021	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	15.1	<49.8	15.1	<49.8	15.1	161
TP6-2	4/25/2021	2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	604
TP6-4	4/25/2021	4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	35.8
TP7-2	4/25/2021	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	19.7	19.5	39.2	<50.0	39.2	1,280
TP7-4	4/25/2021	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.0	20.3	41.3	<50.0	41.3	252
TP-8-S	4/26/2022	Surface	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	26.8	27.2	54.0	<50.0	54.0	2,170
TP-8-2	4/26/2022	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	25.5	29.1	54.6	<50.0	54.6	943
TP-9-S	4/26/2022	Surface	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	24.9	24.9	<50.0	24.9	0.775
TP-9-2	4/26/2022	2	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	16.5	23.9	40.4	<49.9	40.4	53.6
TP-10-S	4/26/2022	Surface	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	25.2	25.2	<49.9	25.2	14.1
TP-10-2	4/26/2022	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	27.0	27.0	<50.0	27.0	10.5
TP-11-S	4/26/2022	Surface	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	29.9	29.9	<50.0	29.9	290
TP-11-2	4/26/2022	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	30.8	30.8	<50.0	30.8	2,920
TP-12-S	4/26/2022	Surface	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	34.6	34.6	<50.0	34.6	6,590
TP-12-2	4/26/2022	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	31.2	31.2	<50.0	31.2	2,290
TP-12-4	4/26/2022	4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	27.2	27.2	<49.9	27.2	1,850
TP-12-5	4/26/2022	5	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<49.9	33.8	33.8	<49.9	33.8	214
TP-13-S	4/26/2022	Surface	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	37.9	25.8	63.7	<50.0	63.7	9.25
TP-13-2	4/26/2022	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	25.7	25.7	<50.0	25.7	62.8
TP-14-S	4/26/2022	Surface	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	27.1	27.1	<49.9	27.1	41.8
TP-14-2	4/26/2022	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	19.4	21.5	40.9	<49.9	40.9	7.55
TP-14-4	4/26/2022	4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	23.6	23.6	<50.0	23.6	5.03

Table 1
Summary of Soil Analytical Data
Merchant Livestock 30 State 2H
Centennial Resources Production, Inc.
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO+DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Table I Closure Criteria for Soil <50 ft Depth to Groundwater 19.15.29 NMAC			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
TP-15-S	4/26/2022	Surface	<0.00201	<0.00201	<0.00201	0.0105	0.0105	<50.0	26.4	26.4	<50.0	26.4	22.0
TP-15-2	4/26/2022	2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	30.0	30.0	<49.9	30.0	23.8
TP-15-4	4/26/2022	4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	26.0	26.0	<50.0	26.0	97.7
TP-16-S	4/26/2022	Surface	<0.00201	<0.00201	0.000812	0.0143	0.0151	<49.9	37.0	37.0	<49.9	37.0	7.87
TP-16-2	4/26/2022	2	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	34.6	34.6	<50.0	34.6	263
TP-17-S	4/26/2022	Surface	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	35.9	35.9	<50.0	35.9	16.8
TP-17-2	4/26/2022	2	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	30.7	30.7	<50.0	30.7	4.35
TP-17-3	4/26/2022	3	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9	29.9	29.9	<49.9	29.9	24.1
TP18-S	4/26/2022	Surface	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	23.4	20.2	43.6	<50.0	43.6	13.1
TP18-2	4/26/2022	2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	26.2	20.4	46.6	<49.9	46.6	21.6
TP19-S	4/26/2022	Surface	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	15.3	20.2	35.5	<49.9	35.5	88.3
TP19-2	4/26/2022	2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	22.3	45.3	67.6	<50.0	67.6	241
TP-20-S	4/25/2021	Surface	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	16.0	<49.9	16.0	20.6	36.6	51.7
TP-20-2	4/25/2021	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	19.7	19.7	252
TP-21-S	4/25/2021	Surface	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	15.6	15.6	196
TP-21-2	4/25/2021	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	15.2	15.2	163
TP-22-S	4/25/2021	Surface	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	16.4	16.4	387
TP-22-2	4/25/2021	2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	19.2	<50.0	19.2	15.6	34.8	530
TP-23-S	4/25/2021	Surface	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	38.0
TP-23-2	4/25/2021	2	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	23.5	19.6	43.1	<49.9	43.1	330
TP-24-S	4/26/2022	Surface	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	5.26
TP-24-2	4/26/2022	2	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	28.7	28.7	<50.0	28.7	36.3
TP-25-S	4/26/2022	Surface	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	15.6	24.4	40.0	<49.9	40.0	13.2
TP-25-2	4/26/2022	2	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	108	21.9	129.9	<49.9	129.9	11.4
TP-26-S	4/26/2022	Surface	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	43.8	37.8	81.6	<49.9	81.6	7.20
TP-26-2	4/26/2022	2	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	23.6	23.6	<50.0	23.6	31.8

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.

B-BH-2 Sample Point Excavated

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

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.

Attachment A

Site Characterization Documentation

Karst Potential Map

Merchand Livestock 30 Spill Area

Legend

- High
- Low
- Medium

Site



2 mi

21

32

OSE POD Locations Map



4/18/2022, 1:52:14 PM

- 

Override 1
- 

Pending
- 

Plugged
- 

Active
- 

Override 1
- 

OSE District Boundary

- 

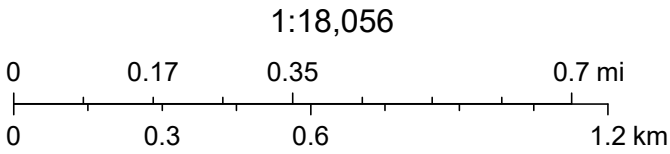
Closure Area
- 

Surface Estate
- 

Both Estates
- 

Subsurface Estate
- 

SiteBoundaries



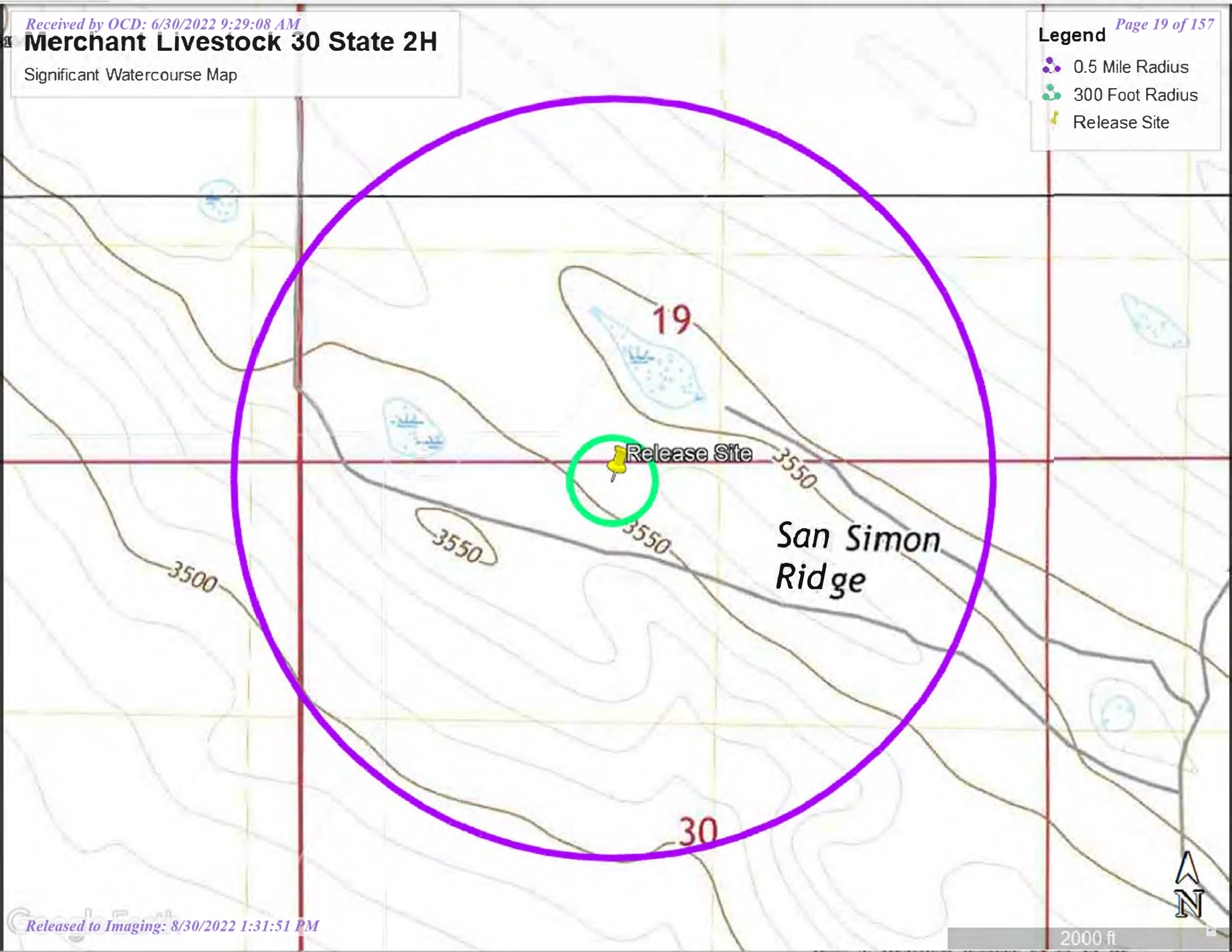
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, U.S. Department of Energy Office of Legacy

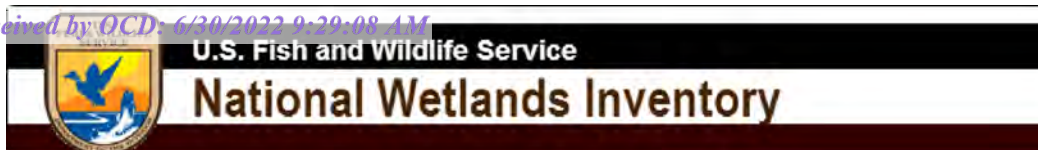
Merchant Livestock 30 State 2H

Significant Watercourse Map

Legend

- 0.5 Mile Radius
- 300 Foot Radius
- Release Site





Wetlands Mapper



April 18, 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 Flood Hazard Layer FIRMMette



103°24'48"W 32°22'26"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 103°24'10"W 32°21'56"N

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		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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 4/18/2022 at 3:52 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.

Attachment B

Laboratory Analytical Reports and Chain-of-Custody Documentation



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2237-1
Laboratory Sample Delivery Group: 12581651
Client Project/Site: Merchant Livestock 30

For:
GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Becky Haskell

A handwritten signature in black ink, appearing to read "Debbie Simmons".

Authorized for release by:
5/10/2022 12:00:19 PM

Debbie Simmons, Project Manager
(832)986-6768
Debbie.Simmons@et.eurofinsus.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Laboratory Job ID: 890-2237-1
SDG: 12581651

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
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.
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.
α	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: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Job ID: 890-2237-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2237-1

Comments

No additional comments.

Receipt

The samples were received on 4/25/2022 4:17 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 24.2° C.

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-24806 recovered above the upper control limit for <AffectedAnalytes>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24525 and analytical batch 880-24808 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24528 and analytical batch 880-24806 were outside control limits. Sample matrix interference and/or non-homogeneity are 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 method blank for preparation batch 880-24356 and analytical batch 880-24366 contained <AffectedAnalytes> 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.

General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24328 and analytical batch 880-24493 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: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP20-S

Lab Sample ID: 890-2237-1

Date Collected: 04/25/22 09:00

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		04/29/22 14:44	05/05/22 04:48	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		04/29/22 14:44	05/05/22 04:48	1
Ethylbenzene	<0.00202	U F1	0.00202	0.000571	mg/Kg		04/29/22 14:44	05/05/22 04:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		04/29/22 14:44	05/05/22 04:48	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		04/29/22 14:44	05/05/22 04:48	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		04/29/22 14:44	05/05/22 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/29/22 14:44	05/05/22 04:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/29/22 14:44	05/05/22 04:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.6	J	49.9	15.0	mg/Kg			04/29/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.0	J	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 12:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 12:24	1
Oil Range Organics (Over C28-C36)	20.6	J B	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/27/22 16:42	05/01/22 12:24	1
o-Terphenyl	105		70 - 130				04/27/22 16:42	05/01/22 12:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.7		5.04	0.865	mg/Kg			04/29/22 09:01	1

Client Sample ID: TP20-2

Lab Sample ID: 890-2237-2

Date Collected: 04/25/22 09:15

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		04/29/22 14:44	05/05/22 05:08	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		04/29/22 14:44	05/05/22 05:08	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		04/29/22 14:44	05/05/22 05:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		04/29/22 14:44	05/05/22 05:08	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		04/29/22 14:44	05/05/22 05:08	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		04/29/22 14:44	05/05/22 05:08	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP20-2

Lab Sample ID: 890-2237-2

Date Collected: 04/25/22 09:15

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/29/22 14:44	05/05/22 05:08	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/29/22 14:44	05/05/22 05:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.7	J	50.0	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 13:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 13:28	1
Oil Range Organics (Over C28-C36)	19.7	J B	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/27/22 16:42	05/01/22 13:28	1
o-Terphenyl	103		70 - 130	04/27/22 16:42	05/01/22 13:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		4.98	0.855	mg/Kg			04/29/22 09:27	1

Client Sample ID: TP1-S

Lab Sample ID: 890-2237-3

Date Collected: 04/25/22 09:30

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		04/29/22 14:44	05/05/22 05:28	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		04/29/22 14:44	05/05/22 05:28	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		04/29/22 14:44	05/05/22 05:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		04/29/22 14:44	05/05/22 05:28	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		04/29/22 14:44	05/05/22 05:28	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		04/29/22 14:44	05/05/22 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/29/22 14:44	05/05/22 05:28	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/29/22 14:44	05/05/22 05:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			05/05/22 13:00	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP1-S

Lab Sample ID: 890-2237-3

Date Collected: 04/25/22 09:30

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.6		50.0	15.0	mg/Kg			04/29/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.3	J	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 13:50	1
Diesel Range Organics (Over C10-C28)	32.1	J	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 13:50	1
Oil Range Organics (Over C28-C36)	18.2	J B	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/27/22 16:42	05/01/22 13:50	1
o-Terphenyl	103		70 - 130				04/27/22 16:42	05/01/22 13:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		4.97	0.853	mg/Kg			04/29/22 09:36	1

Client Sample ID: TP-2

Lab Sample ID: 890-2237-4

Date Collected: 04/25/22 09:40

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		04/29/22 14:44	05/05/22 05:49	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		04/29/22 14:44	05/05/22 05:49	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		04/29/22 14:44	05/05/22 05:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		04/29/22 14:44	05/05/22 05:49	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		04/29/22 14:44	05/05/22 05:49	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		04/29/22 14:44	05/05/22 05:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/29/22 14:44	05/05/22 05:49	1
1,4-Difluorobenzene (Surr)	100		70 - 130				04/29/22 14:44	05/05/22 05:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.4	J	50.0	15.0	mg/Kg			04/29/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.9	J	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 14:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 14:11	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP-2

Lab Sample ID: 890-2237-4

Date Collected: 04/25/22 09:40

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 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)	17.5	J B	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				04/27/22 16:42	05/01/22 14:11	1
o-Terphenyl	102		70 - 130				04/27/22 16:42	05/01/22 14:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		4.95	0.850	mg/Kg			04/29/22 09:45	1

Client Sample ID: TP1-3

Lab Sample ID: 890-2237-5

Date Collected: 04/25/22 09:47

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg		04/29/22 14:44	05/05/22 06:09	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg		04/29/22 14:44	05/05/22 06:09	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg		04/29/22 14:44	05/05/22 06:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg		04/29/22 14:44	05/05/22 06:09	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		04/29/22 14:44	05/05/22 06:09	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg		04/29/22 14:44	05/05/22 06:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				04/29/22 14:44	05/05/22 06:09	1
1,4-Difluorobenzene (Surr)	95		70 - 130				04/29/22 14:44	05/05/22 06:09	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00100	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.4	J	49.9	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 14:32	1
Oil Range Organics (Over C28-C36)	17.4	J B	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				04/27/22 16:42	05/01/22 14:32	1
o-Terphenyl	96		70 - 130				04/27/22 16:42	05/01/22 14:32	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP1-3

Lab Sample ID: 890-2237-5

Date Collected: 04/25/22 09:47

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		4.95	0.850	mg/Kg			04/29/22 09:54	1

Client Sample ID: TP2-S

Lab Sample ID: 890-2237-6

Date Collected: 04/25/22 10:00

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		04/29/22 14:44	05/05/22 06:30	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		04/29/22 14:44	05/05/22 06:30	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		04/29/22 14:44	05/05/22 06:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		04/29/22 14:44	05/05/22 06:30	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		04/29/22 14:44	05/05/22 06:30	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		04/29/22 14:44	05/05/22 06:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/29/22 14:44	05/05/22 06:30	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/29/22 14:44	05/05/22 06:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.9	J	49.9	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 14:53	1
Diesel Range Organics (Over C10-C28)	23.9	J	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 14:53	1
Oil Range Organics (Over C28-C36)	17.0	J B	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				04/27/22 16:42	05/01/22 14:53	1
o-Terphenyl	113		70 - 130				04/27/22 16:42	05/01/22 14:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	743		5.01	0.860	mg/Kg			04/29/22 10:20	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP2-2

Lab Sample ID: 890-2237-7

Date Collected: 04/25/22 10:10

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		04/29/22 14:44	05/05/22 06:50	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		04/29/22 14:44	05/05/22 06:50	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		04/29/22 14:44	05/05/22 06:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:44	05/05/22 06:50	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		04/29/22 14:44	05/05/22 06:50	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:44	05/05/22 06:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/29/22 14:44	05/05/22 06:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/29/22 14:44	05/05/22 06:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.3	J	50.0	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 15:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 15:15	1
Oil Range Organics (Over C28-C36)	16.3	J B	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/27/22 16:42	05/01/22 15:15	1
o-Terphenyl	106		70 - 130	04/27/22 16:42	05/01/22 15:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	318		4.99	0.857	mg/Kg			04/29/22 10:29	1

Client Sample ID: TP21-S

Lab Sample ID: 890-2237-8

Date Collected: 04/25/22 10:20

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		04/29/22 14:44	05/05/22 07:10	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		04/29/22 14:44	05/05/22 07:10	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		04/29/22 14:44	05/05/22 07:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		04/29/22 14:44	05/05/22 07:10	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		04/29/22 14:44	05/05/22 07:10	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		04/29/22 14:44	05/05/22 07:10	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP21-S

Lab Sample ID: 890-2237-8

Date Collected: 04/25/22 10:20

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/29/22 14:44	05/05/22 07:10	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/29/22 14:44	05/05/22 07:10	1
Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			05/05/22 13:00	1
Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.6	J	49.9	15.0	mg/Kg			04/29/22 16:37	1
Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 15:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 15:37	1
Oil Range Organics (Over C28-C36)	15.6	J B	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 15:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				04/27/22 16:42	05/01/22 15:37	1
o-Terphenyl	106		70 - 130				04/27/22 16:42	05/01/22 15:37	1
Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	196		5.02	0.862	mg/Kg			04/29/22 10:38	1

Client Sample ID: TP21-2

Lab Sample ID: 890-2237-9

Date Collected: 04/25/22 10:30

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		04/29/22 14:44	05/05/22 07:31	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		04/29/22 14:44	05/05/22 07:31	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		04/29/22 14:44	05/05/22 07:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		04/29/22 14:44	05/05/22 07:31	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		04/29/22 14:44	05/05/22 07:31	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		04/29/22 14:44	05/05/22 07:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/29/22 14:44	05/05/22 07:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130				04/29/22 14:44	05/05/22 07:31	1
Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			05/05/22 13:00	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP21-2

Lab Sample ID: 890-2237-9

Date Collected: 04/25/22 10:30

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.2	J	49.9	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 15:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 15:59	1
Oil Range Organics (Over C28-C36)	15.2	J B	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/27/22 16:42	05/01/22 15:59	1
o-Terphenyl	105		70 - 130				04/27/22 16:42	05/01/22 15:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		5.00	0.858	mg/Kg			04/29/22 10:47	1

Client Sample ID: TP22-S

Lab Sample ID: 890-2237-10

Date Collected: 04/25/22 10:40

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		04/29/22 14:44	05/05/22 07:51	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		04/29/22 14:44	05/05/22 07:51	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		04/29/22 14:44	05/05/22 07:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		04/29/22 14:44	05/05/22 07:51	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		04/29/22 14:44	05/05/22 07:51	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		04/29/22 14:44	05/05/22 07:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				04/29/22 14:44	05/05/22 07:51	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/29/22 14:44	05/05/22 07:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.4	J	50.0	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 16:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 16:20	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP22-S

Lab Sample ID: 890-2237-10

Date Collected: 04/25/22 10:40

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 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)	16.4	J B	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/27/22 16:42	05/01/22 16:20	1
o-Terphenyl	108		70 - 130				04/27/22 16:42	05/01/22 16:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		5.05	0.867	mg/Kg			04/29/22 10:56	1

Client Sample ID: TP22-2

Lab Sample ID: 890-2237-11

Date Collected: 04/25/22 10:45

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		04/29/22 14:44	05/05/22 10:37	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		04/29/22 14:44	05/05/22 10:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		04/29/22 14:44	05/05/22 10:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		04/29/22 14:44	05/05/22 10:37	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		04/29/22 14:44	05/05/22 10:37	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		04/29/22 14:44	05/05/22 10:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				04/29/22 14:44	05/05/22 10:37	1
1,4-Difluorobenzene (Surr)	91		70 - 130				04/29/22 14:44	05/05/22 10:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.8	J	50.0	15.0	mg/Kg			04/29/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.2	J	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 17:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 17:03	1
Oil Range Organics (Over C28-C36)	15.6	J B	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/27/22 16:42	05/01/22 17:03	1
o-Terphenyl	98		70 - 130				04/27/22 16:42	05/01/22 17:03	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP22-2

Lab Sample ID: 890-2237-11

Date Collected: 04/25/22 10:45

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530	F1	4.98	0.855	mg/Kg			04/29/22 11:05	1

Client Sample ID: TP4-2

Lab Sample ID: 890-2237-12

Date Collected: 04/25/22 10:55

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000381	mg/Kg		04/29/22 14:44	05/05/22 10:57	1
Toluene	<0.00198	U	0.00198	0.000451	mg/Kg		04/29/22 14:44	05/05/22 10:57	1
Ethylbenzene	<0.00198	U	0.00198	0.000559	mg/Kg		04/29/22 14:44	05/05/22 10:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	0.00100	mg/Kg		04/29/22 14:44	05/05/22 10:57	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg		04/29/22 14:44	05/05/22 10:57	1
Xylenes, Total	<0.00396	U	0.00396	0.00100	mg/Kg		04/29/22 14:44	05/05/22 10:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				04/29/22 14:44	05/05/22 10:57	1
1,4-Difluorobenzene (Surr)	98		70 - 130				04/29/22 14:44	05/05/22 10:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	0.00100	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32.2	J	49.9	15.0	mg/Kg			04/29/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.1	J	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 17:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 17:25	1
Oil Range Organics (Over C28-C36)	15.1	J B	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				04/27/22 16:42	05/01/22 17:25	1
o-Terphenyl	111		70 - 130				04/27/22 16:42	05/01/22 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	399		4.95	0.850	mg/Kg			04/29/22 11:31	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP4-4

Lab Sample ID: 890-2237-13

Date Collected: 04/25/22 11:05

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		04/29/22 14:44	05/05/22 11:18	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		04/29/22 14:44	05/05/22 11:18	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		04/29/22 14:44	05/05/22 11:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:44	05/05/22 11:18	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		04/29/22 14:44	05/05/22 11:18	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:44	05/05/22 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/29/22 14:44	05/05/22 11:18	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/29/22 14:44	05/05/22 11:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.2	J	49.9	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 17:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 17:46	1
Oil Range Organics (Over C28-C36)	15.2	J B	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	04/27/22 16:42	05/01/22 17:46	1
o-Terphenyl	98		70 - 130	04/27/22 16:42	05/01/22 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	465		5.05	0.867	mg/Kg			04/29/22 11:40	1

Client Sample ID: TP5-S

Lab Sample ID: 890-2237-14

Date Collected: 04/25/22 11:30

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		04/29/22 14:44	05/05/22 11:38	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		04/29/22 14:44	05/05/22 11:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		04/29/22 14:44	05/05/22 11:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		04/29/22 14:44	05/05/22 11:38	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		04/29/22 14:44	05/05/22 11:38	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		04/29/22 14:44	05/05/22 11:38	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP5-S

Lab Sample ID: 890-2237-14

Date Collected: 04/25/22 11:30

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	04/29/22 14:44	05/05/22 11:38	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/29/22 14:44	05/05/22 11:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.6	J	49.9	15.0	mg/Kg			04/29/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.6	J	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 18:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 18:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				04/27/22 16:42	05/01/22 18:30	1
o-Terphenyl	110		70 - 130				04/27/22 16:42	05/01/22 18:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	571		5.01	0.860	mg/Kg			04/29/22 12:07	1

Client Sample ID: TP5-2

Lab Sample ID: 890-2237-15

Date Collected: 04/25/22 11:35

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		04/29/22 14:44	05/05/22 11:58	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		04/29/22 14:44	05/05/22 11:58	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		04/29/22 14:44	05/05/22 11:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		04/29/22 14:44	05/05/22 11:58	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		04/29/22 14:44	05/05/22 11:58	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		04/29/22 14:44	05/05/22 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/29/22 14:44	05/05/22 11:58	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/29/22 14:44	05/05/22 11:58	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.1	J	49.8	14.9	mg/Kg			04/29/22 16:37	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP5-2

Lab Sample ID: 890-2237-15

Date Collected: 04/25/22 11:35

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.1	J	49.8	14.9	mg/Kg		04/27/22 16:42	05/01/22 18:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	14.9	mg/Kg		04/27/22 16:42	05/01/22 18:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	14.9	mg/Kg		04/27/22 16:42	05/01/22 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				04/27/22 16:42	05/01/22 18:52	1
o-Terphenyl	106		70 - 130				04/27/22 16:42	05/01/22 18:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		5.01	0.860	mg/Kg			04/29/22 12:16	1

Client Sample ID: TP3-2

Lab Sample ID: 890-2237-16

Date Collected: 04/25/22 11:45

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		04/29/22 14:44	05/05/22 12:19	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		04/29/22 14:44	05/05/22 12:19	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		04/29/22 14:44	05/05/22 12:19	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		04/29/22 14:44	05/05/22 12:19	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		04/29/22 14:44	05/05/22 12:19	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		04/29/22 14:44	05/05/22 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/29/22 14:44	05/05/22 12:19	1
1,4-Difluorobenzene (Surr)	101		70 - 130				04/29/22 14:44	05/05/22 12:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg			05/05/22 13:00	1

Method: 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	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 19:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 19:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				04/27/22 16:42	05/01/22 19:13	1
o-Terphenyl	105		70 - 130				04/27/22 16:42	05/01/22 19:13	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP3-2

Lab Sample ID: 890-2237-16

Date Collected: 04/25/22 11:45

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	323		5.03	0.863	mg/Kg			04/29/22 12:25	1

Client Sample ID: TP3-4

Lab Sample ID: 890-2237-17

Date Collected: 04/25/22 11:50

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg		04/29/22 14:44	05/05/22 12:39	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg		04/29/22 14:44	05/05/22 12:39	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg		04/29/22 14:44	05/05/22 12:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg		04/29/22 14:44	05/05/22 12:39	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		04/29/22 14:44	05/05/22 12:39	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg		04/29/22 14:44	05/05/22 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				04/29/22 14:44	05/05/22 12:39	1
1,4-Difluorobenzene (Surr)	99		70 - 130				04/29/22 14:44	05/05/22 12:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.0	J	50.0	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 19:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 19:35	1
Oil Range Organics (Over C28-C36)	15.0	J B	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/27/22 16:42	05/01/22 19:35	1
o-Terphenyl	108		70 - 130				04/27/22 16:42	05/01/22 19:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		4.99	0.857	mg/Kg			04/29/22 12:33	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP6-2

Lab Sample ID: 890-2237-18

Date Collected: 04/25/22 12:05

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		04/29/22 14:44	05/05/22 13:00	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		04/29/22 14:44	05/05/22 13:00	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		04/29/22 14:44	05/05/22 13:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		04/29/22 14:44	05/05/22 13:00	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		04/29/22 14:44	05/05/22 13:00	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		04/29/22 14:44	05/05/22 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/29/22 14:44	05/05/22 13:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130	04/29/22 14:44	05/05/22 13:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg			05/05/22 13:00	1

Method: 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	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 19:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 19:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:42	05/01/22 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	04/27/22 16:42	05/01/22 19:56	1
o-Terphenyl	100		70 - 130	04/27/22 16:42	05/01/22 19:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	604		5.00	0.858	mg/Kg			04/29/22 12:42	1

Client Sample ID: TP6-4

Lab Sample ID: 890-2237-19

Date Collected: 04/25/22 12:10

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		04/29/22 14:44	05/05/22 13:20	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		04/29/22 14:44	05/05/22 13:20	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		04/29/22 14:44	05/05/22 13:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:44	05/05/22 13:20	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		04/29/22 14:44	05/05/22 13:20	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:44	05/05/22 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	04/29/22 14:44	05/05/22 13:20	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP6-4

Lab Sample ID: 890-2237-19

Date Collected: 04/25/22 12:10

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	04/29/22 14:44	05/05/22 13:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg			05/05/22 13:00	1

Method: 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	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 20:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 20:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/27/22 16:42	05/01/22 20:17	1
o-Terphenyl	99		70 - 130				04/27/22 16:42	05/01/22 20:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.8		4.97	0.853	mg/Kg			04/29/22 12:51	1

Client Sample ID: TP23-S

Lab Sample ID: 890-2237-20

Date Collected: 04/25/22 13:10

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		04/29/22 14:44	05/05/22 13:41	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		04/29/22 14:44	05/05/22 13:41	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		04/29/22 14:44	05/05/22 13:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		04/29/22 14:44	05/05/22 13:41	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		04/29/22 14:44	05/05/22 13:41	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		04/29/22 14:44	05/05/22 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/29/22 14:44	05/05/22 13:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/29/22 14:44	05/05/22 13:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			05/05/22 13:00	1

Method: 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	15.0	mg/Kg			04/29/22 16:37	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP23-S

Lab Sample ID: 890-2237-20

Date Collected: 04/25/22 13:10

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 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	15.0	mg/Kg		04/27/22 16:42	05/01/22 20:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 20:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 20:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/27/22 16:42	05/01/22 20:39	1
o-Terphenyl	100		70 - 130				04/27/22 16:42	05/01/22 20:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.0		4.97	0.853	mg/Kg			04/29/22 13:00	1

Client Sample ID: TP23-2

Lab Sample ID: 890-2237-21

Date Collected: 04/25/22 12:20

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1	0.00202	0.000389	mg/Kg		04/29/22 14:58	05/05/22 08:56	1
Toluene	<0.00202	U F1	0.00202	0.000461	mg/Kg		04/29/22 14:58	05/05/22 08:56	1
Ethylbenzene	<0.00202	U F1	0.00202	0.000571	mg/Kg		04/29/22 14:58	05/05/22 08:56	1
m-Xylene & p-Xylene	<0.00404	U F1	0.00404	0.00102	mg/Kg		04/29/22 14:58	05/05/22 08:56	1
o-Xylene	<0.00202	U F1	0.00202	0.000347	mg/Kg		04/29/22 14:58	05/05/22 08:56	1
Xylenes, Total	<0.00404	U F1	0.00404	0.00102	mg/Kg		04/29/22 14:58	05/05/22 08:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				04/29/22 14:58	05/05/22 08:56	1
1,4-Difluorobenzene (Surr)	84		70 - 130				04/29/22 14:58	05/05/22 08:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	43.1	J	49.9	15.0	mg/Kg			04/29/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.5	J	49.9	15.0	mg/Kg		04/27/22 16:45	04/28/22 20:47	1
Diesel Range Organics (Over C10-C28)	19.6	J B	49.9	15.0	mg/Kg		04/27/22 16:45	04/28/22 20:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:45	04/28/22 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/27/22 16:45	04/28/22 20:47	1
o-Terphenyl	117		70 - 130				04/27/22 16:45	04/28/22 20:47	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP23-2

Lab Sample ID: 890-2237-21

Date Collected: 04/25/22 12:20

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330		4.96	0.851	mg/Kg			04/29/22 09:05	1

Client Sample ID: TP7-2

Lab Sample ID: 890-2237-22

Date Collected: 04/25/22 13:25

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		04/29/22 14:58	05/05/22 09:23	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		04/29/22 14:58	05/05/22 09:23	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		04/29/22 14:58	05/05/22 09:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		04/29/22 14:58	05/05/22 09:23	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		04/29/22 14:58	05/05/22 09:23	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		04/29/22 14:58	05/05/22 09:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130				04/29/22 14:58	05/05/22 09:23	1
1,4-Difluorobenzene (Surr)	87		70 - 130				04/29/22 14:58	05/05/22 09:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	39.2	J	50.0	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 21:49	1
Diesel Range Organics (Over C10-C28)	19.5	J B	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 21:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/27/22 16:45	04/28/22 21:49	1
o-Terphenyl	115		70 - 130				04/27/22 16:45	04/28/22 21:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		5.00	0.858	mg/Kg			04/29/22 09:32	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP7-4

Lab Sample ID: 890-2237-23

Date Collected: 04/25/22 13:35

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		04/29/22 14:58	05/05/22 09:48	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		04/29/22 14:58	05/05/22 09:48	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		04/29/22 14:58	05/05/22 09:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		04/29/22 14:58	05/05/22 09:48	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		04/29/22 14:58	05/05/22 09:48	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		04/29/22 14:58	05/05/22 09:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	04/29/22 14:58	05/05/22 09:48	1
1,4-Difluorobenzene (Surr)	83		70 - 130	04/29/22 14:58	05/05/22 09:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	41.3	J	50.0	15.0	mg/Kg			04/29/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	J	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 22:10	1
Diesel Range Organics (Over C10-C28)	20.3	J B	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 22:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	04/27/22 16:45	04/28/22 22:10	1
o-Terphenyl	101		70 - 130	04/27/22 16:45	04/28/22 22:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	252		25.0	4.28	mg/Kg			04/29/22 09:41	5

Client Sample ID: TP18-S

Lab Sample ID: 890-2237-24

Date Collected: 04/25/22 13:55

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		04/29/22 14:58	05/05/22 10:40	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		04/29/22 14:58	05/05/22 10:40	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		04/29/22 14:58	05/05/22 10:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		04/29/22 14:58	05/05/22 10:40	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		04/29/22 14:58	05/05/22 10:40	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		04/29/22 14:58	05/05/22 10:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130	04/29/22 14:58	05/05/22 10:40	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP18-S

Lab Sample ID: 890-2237-24

Date Collected: 04/25/22 13:55

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	04/29/22 14:58	05/05/22 10:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	43.6	J	50.0	15.0	mg/Kg			04/29/22 16:37	1

Method: 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	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 22:31	1
Diesel Range Organics (Over C10-C28)	20.2	J B	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 22:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				04/27/22 16:45	04/28/22 22:31	1
o-Terphenyl	91		70 - 130				04/27/22 16:45	04/28/22 22:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.1		5.05	0.867	mg/Kg			04/29/22 09:51	1

Client Sample ID: TP18-2

Lab Sample ID: 890-2237-25

Date Collected: 04/25/22 14:05

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		04/29/22 14:58	05/05/22 11:05	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		04/29/22 14:58	05/05/22 11:05	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		04/29/22 14:58	05/05/22 11:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:58	05/05/22 11:05	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		04/29/22 14:58	05/05/22 11:05	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:58	05/05/22 11:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	04/29/22 14:58	05/05/22 11:05	1
1,4-Difluorobenzene (Surr)	84		70 - 130	04/29/22 14:58	05/05/22 11:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	46.6	J	49.9	15.0	mg/Kg			04/29/22 16:37	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP18-2

Lab Sample ID: 890-2237-25

Date Collected: 04/25/22 14:05

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.2	J	49.9	15.0	mg/Kg		04/27/22 16:45	04/28/22 22:52	1
Diesel Range Organics (Over C10-C28)	20.4	J B	49.9	15.0	mg/Kg		04/27/22 16:45	04/28/22 22:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:45	04/28/22 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/27/22 16:45	04/28/22 22:52	1
o-Terphenyl	118		70 - 130				04/27/22 16:45	04/28/22 22:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.6		4.97	0.853	mg/Kg			04/29/22 10:00	1

Client Sample ID: TP19-S

Lab Sample ID: 890-2237-26

Date Collected: 04/25/22 14:15

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		04/29/22 14:58	05/05/22 11:30	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		04/29/22 14:58	05/05/22 11:30	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		04/29/22 14:58	05/05/22 11:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		04/29/22 14:58	05/05/22 11:30	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		04/29/22 14:58	05/05/22 11:30	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		04/29/22 14:58	05/05/22 11:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130				04/29/22 14:58	05/05/22 11:30	1
1,4-Difluorobenzene (Surr)	84		70 - 130				04/29/22 14:58	05/05/22 11:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	35.5	J	49.9	15.0	mg/Kg			04/29/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.3	J	49.9	15.0	mg/Kg		04/27/22 16:45	04/28/22 23:13	1
Diesel Range Organics (Over C10-C28)	20.2	J B	49.9	15.0	mg/Kg		04/27/22 16:45	04/28/22 23:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		04/27/22 16:45	04/28/22 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/27/22 16:45	04/28/22 23:13	1
o-Terphenyl	113		70 - 130				04/27/22 16:45	04/28/22 23:13	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP19-S

Lab Sample ID: 890-2237-26

Date Collected: 04/25/22 14:15

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: SURFACE

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.3		4.98	0.855	mg/Kg			04/29/22 10:27	1

Client Sample ID: TP19-2

Lab Sample ID: 890-2237-27

Date Collected: 04/25/22 14:25

Matrix: Solid

Date Received: 04/25/22 16:17

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		05/07/22 12:54	05/08/22 01:08	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		05/07/22 12:54	05/08/22 01:08	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		05/07/22 12:54	05/08/22 01:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		05/07/22 12:54	05/08/22 01:08	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		05/07/22 12:54	05/08/22 01:08	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		05/07/22 12:54	05/08/22 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130				04/29/22 14:58	05/05/22 11:55	1
1,4-Difluorobenzene (Surr)	85		70 - 130				04/29/22 14:58	05/05/22 11:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			05/05/22 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.6		50.0	15.0	mg/Kg			04/29/22 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.3	J	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 23:33	1
Diesel Range Organics (Over C10-C28)	45.3	J B	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 23:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				04/27/22 16:45	04/28/22 23:33	1
o-Terphenyl	93		70 - 130				04/27/22 16:45	04/28/22 23:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		5.00	0.858	mg/Kg			04/29/22 10:37	1

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-2237-1	TP20-S	108	99
890-2237-1 MS	TP20-S	100	99
890-2237-1 MSD	TP20-S	102	100
890-2237-2	TP20-2	109	97
890-2237-3	TP1-S	102	98
890-2237-4	TP-2	109	100
890-2237-5	TP1-3	104	95
890-2237-6	TP2-S	106	97
890-2237-7	TP2-2	111	100
890-2237-8	TP21-S	110	99
890-2237-9	TP21-2	110	97
890-2237-10	TP22-S	106	99
890-2237-11	TP22-2	126	91
890-2237-12	TP4-2	101	98
890-2237-13	TP4-4	109	99
890-2237-14	TP5-S	108	99
890-2237-15	TP5-2	106	97
890-2237-16	TP3-2	110	101
890-2237-17	TP3-4	110	99
890-2237-18	TP6-2	106	101
890-2237-19	TP6-4	109	101
890-2237-20	TP23-S	111	100
890-2237-21	TP23-2	139 S1+	84
890-2237-21 MS	TP23-2	150 S1+	91
890-2237-21 MSD	TP23-2	135 S1+	88
890-2237-22	TP7-2	154 S1+	87
890-2237-23	TP7-4	140 S1+	83
890-2237-24	TP18-S	159 S1+	85
890-2237-25	TP18-2	156 S1+	84
890-2237-26	TP19-S	159 S1+	84
890-2237-27	TP19-2	144 S1+	85
LCS 880-24525/1-A	Lab Control Sample	104	99
LCS 880-24528/1-A	Lab Control Sample	145 S1+	84
LCS 880-25027/1-A	Lab Control Sample	107	101
LCSD 880-24525/2-A	Lab Control Sample Dup	105	98
LCSD 880-24528/2-A	Lab Control Sample Dup	130	89
LCSD 880-25027/2-A	Lab Control Sample Dup	105	101
MB 880-24316/5-A	Method Blank	98	82
MB 880-24321/5-A	Method Blank	98	98
MB 880-24525/5-A	Method Blank	98	93
MB 880-24528/5-A	Method Blank	101	80
MB 880-25027/5-A	Method Blank	99	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

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)
890-2237-1	TP20-S	98	105
890-2237-1 MS	TP20-S	97	88
890-2237-1 MSD	TP20-S	98	88
890-2237-2	TP20-2	100	103
890-2237-3	TP1-S	100	103
890-2237-4	TP-2	97	102
890-2237-5	TP1-3	92	96
890-2237-6	TP2-S	110	113
890-2237-7	TP2-2	103	106
890-2237-8	TP21-S	105	106
890-2237-9	TP21-2	101	105
890-2237-10	TP22-S	104	108
890-2237-11	TP22-2	95	98
890-2237-12	TP4-2	108	111
890-2237-13	TP4-4	93	98
890-2237-14	TP5-S	106	110
890-2237-15	TP5-2	101	106
890-2237-16	TP3-2	100	105
890-2237-17	TP3-4	103	108
890-2237-18	TP6-2	95	100
890-2237-19	TP6-4	95	99
890-2237-20	TP23-S	98	100
890-2237-21	TP23-2	98	117
890-2237-21 MS	TP23-2	76	84
890-2237-21 MSD	TP23-2	84	95
890-2237-22	TP7-2	94	115
890-2237-23	TP7-4	82	101
890-2237-24	TP18-S	80	91
890-2237-25	TP18-2	98	118
890-2237-26	TP19-S	94	113
890-2237-27	TP19-2	80	93
LCS 880-24355/2-A	Lab Control Sample	98	96
LCSD 880-24355/3-A	Lab Control Sample Dup	112	110
MB 880-24355/1-A	Method Blank	109	118

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-24356/2-A	Lab Control Sample	97	118
LCSD 880-24356/3-A	Lab Control Sample Dup	98	118
MB 880-24356/1-A	Method Blank	85	100

Surrogate Legend

1CO = 1-Chlorooctane

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30
OTPH = o-Terphenyl

Job ID: 890-2237-1
SDG: 12581651

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24316/5-A

Matrix: Solid

Analysis Batch: 24806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24316

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		04/27/22 11:30	05/04/22 19:10	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		04/27/22 11:30	05/04/22 19:10	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		04/27/22 11:30	05/04/22 19:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		04/27/22 11:30	05/04/22 19:10	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		04/27/22 11:30	05/04/22 19:10	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		04/27/22 11:30	05/04/22 19:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/27/22 11:30	05/04/22 19:10	1
1,4-Difluorobenzene (Surr)	82		70 - 130	04/27/22 11:30	05/04/22 19:10	1

Lab Sample ID: MB 880-24321/5-A

Matrix: Solid

Analysis Batch: 24808

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		04/27/22 12:01	05/04/22 16:42	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		04/27/22 12:01	05/04/22 16:42	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		04/27/22 12:01	05/04/22 16:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		04/27/22 12:01	05/04/22 16:42	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		04/27/22 12:01	05/04/22 16:42	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		04/27/22 12:01	05/04/22 16:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/27/22 12:01	05/04/22 16:42	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/27/22 12:01	05/04/22 16:42	1

Lab Sample ID: MB 880-24525/5-A

Matrix: Solid

Analysis Batch: 24808

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		04/29/22 14:44	05/05/22 04:19	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		04/29/22 14:44	05/05/22 04:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		04/29/22 14:44	05/05/22 04:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:44	05/05/22 04:19	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		04/29/22 14:44	05/05/22 04:19	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:44	05/05/22 04:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/29/22 14:44	05/05/22 04:19	1
1,4-Difluorobenzene (Surr)	93		70 - 130	04/29/22 14:44	05/05/22 04:19	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

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

Lab Sample ID: LCS 880-24525/1-A

Matrix: Solid

Analysis Batch: 24808

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07669		mg/Kg		77	70 - 130
Toluene	0.100	0.07517		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07605		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	0.200	0.1588		mg/Kg		79	70 - 130
o-Xylene	0.100	0.08896		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-24525/2-A

Matrix: Solid

Analysis Batch: 24808

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08486		mg/Kg		85	70 - 130	10	35
Toluene	0.100	0.08858		mg/Kg		89	70 - 130	16	35
Ethylbenzene	0.100	0.09070		mg/Kg		91	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.1896		mg/Kg		95	70 - 130	18	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-2237-1 MS

Matrix: Solid

Analysis Batch: 24808

Client Sample ID: TP20-S

Prep Type: Total/NA

Prep Batch: 24525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0996	0.07615		mg/Kg		76	70 - 130
Toluene	<0.00202	U	0.0996	0.07380		mg/Kg		74	70 - 130
Ethylbenzene	<0.00202	U F1	0.0996	0.07286		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.199	0.1508		mg/Kg		76	70 - 130
o-Xylene	<0.00202	U	0.0996	0.08285		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2237-1 MSD

Matrix: Solid

Analysis Batch: 24808

Client Sample ID: TP20-S

Prep Type: Total/NA

Prep Batch: 24525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0994	0.07195		mg/Kg		72	70 - 130	6	35
Toluene	<0.00202	U	0.0994	0.07008		mg/Kg		70	70 - 130	5	35
Ethylbenzene	<0.00202	U F1	0.0994	0.06865	F1	mg/Kg		69	70 - 130	6	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

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

Lab Sample ID: 890-2237-1 MSD

Matrix: Solid

Analysis Batch: 24808

Client Sample ID: TP20-S

Prep Type: Total/NA

Prep Batch: 24525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00404	U	0.199	0.1421		mg/Kg		71	70 - 130	6	35
o-Xylene	<0.00202	U	0.0994	0.07833		mg/Kg		79	70 - 130	6	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	102		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

Lab Sample ID: MB 880-24528/5-A

Matrix: Solid

Analysis Batch: 24806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		04/29/22 14:58	05/05/22 08:31	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		04/29/22 14:58	05/05/22 08:31	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		04/29/22 14:58	05/05/22 08:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:58	05/05/22 08:31	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		04/29/22 14:58	05/05/22 08:31	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		04/29/22 14:58	05/05/22 08:31	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				04/29/22 14:58	05/05/22 08:31	1
1,4-Difluorobenzene (Surr)	80		70 - 130				04/29/22 14:58	05/05/22 08:31	1

Lab Sample ID: LCS 880-24528/1-A

Matrix: Solid

Analysis Batch: 24806

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1090		mg/Kg		109	70 - 130
Toluene	0.100	0.1062		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1186		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2409		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1211		mg/Kg		121	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits				
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				
1,4-Difluorobenzene (Surr)	84		70 - 130				

Lab Sample ID: LCSD 880-24528/2-A

Matrix: Solid

Analysis Batch: 24806

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09287		mg/Kg		93	70 - 130	16	35
Toluene	0.100	0.09327		mg/Kg		93	70 - 130	13	35
Ethylbenzene	0.100	0.1047		mg/Kg		105	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2149		mg/Kg		107	70 - 130	11	35
o-Xylene	0.100	0.1074		mg/Kg		107	70 - 130	12	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

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

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

Lab Sample ID: 890-2237-21 MS

Matrix: Solid

Analysis Batch: 24806

Client Sample ID: TP23-2

Prep Type: Total/NA

Prep Batch: 24528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F1	0.0994	0.07785		mg/Kg		78	70 - 130
Toluene	<0.00202	U F1	0.0994	0.06576	F1	mg/Kg		66	70 - 130
Ethylbenzene	<0.00202	U F1	0.0994	0.07052		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00404	U F1	0.199	0.1425		mg/Kg		72	70 - 130
o-Xylene	<0.00202	U F1	0.0994	0.07139		mg/Kg		72	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-2237-21 MSD

Matrix: Solid

Analysis Batch: 24806

Client Sample ID: TP23-2

Prep Type: Total/NA

Prep Batch: 24528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00202	U F1	0.0996	0.06915	F1	mg/Kg		69	70 - 130	12	35
Toluene	<0.00202	U F1	0.0996	0.05550	F1	mg/Kg		56	70 - 130	17	35
Ethylbenzene	<0.00202	U F1	0.0996	0.05932	F1	mg/Kg		60	70 - 130	17	35
m-Xylene & p-Xylene	<0.00404	U F1	0.199	0.1193	F1	mg/Kg		60	70 - 130	18	35
o-Xylene	<0.00202	U F1	0.0996	0.05890	F1	mg/Kg		59	70 - 130	19	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-25027/5-A

Matrix: Solid

Analysis Batch: 25033

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25027

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		05/07/22 12:54	05/07/22 17:41	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		05/07/22 12:54	05/07/22 17:41	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		05/07/22 12:54	05/07/22 17:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		05/07/22 12:54	05/07/22 17:41	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		05/07/22 12:54	05/07/22 17:41	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		05/07/22 12:54	05/07/22 17:41	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	99		70 - 130	05/07/22 12:54	05/07/22 17:41	1			
1,4-Difluorobenzene (Surr)	97		70 - 130	05/07/22 12:54	05/07/22 17:41	1			

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

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

Lab Sample ID: LCS 880-25027/1-A

Matrix: Solid

Analysis Batch: 25033

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08526		mg/Kg		85	70 - 130
Toluene	0.100	0.08467		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08729		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1820		mg/Kg		91	70 - 130
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-25027/2-A

Matrix: Solid

Analysis Batch: 25033

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25027

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08877		mg/Kg		89	70 - 130	4	35
Toluene	0.100	0.08669		mg/Kg		87	70 - 130	2	35
Ethylbenzene	0.100	0.08861		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1830		mg/Kg		91	70 - 130	1	35
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-24355/1-A

Matrix: Solid

Analysis Batch: 24575

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 11:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 11:22	1
Oil Range Organics (Over C28-C36)	21.28	J	50.0	15.0	mg/Kg		04/27/22 16:42	05/01/22 11:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/27/22 16:42	05/01/22 11:22	1
o-Terphenyl	118		70 - 130	04/27/22 16:42	05/01/22 11:22	1

Lab Sample ID: LCS 880-24355/2-A

Matrix: Solid

Analysis Batch: 24575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

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

Lab Sample ID: LCS 880-24355/2-A

Matrix: Solid

Analysis Batch: 24575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	940.3		mg/Kg		94	70 - 130

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane	98		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-24355/3-A

Matrix: Solid

Analysis Batch: 24575

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1143		mg/Kg		114	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	1042		mg/Kg		104	70 - 130	10	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane	112		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-2237-1 MS

Matrix: Solid

Analysis Batch: 24575

Client Sample ID: TP20-S

Prep Type: Total/NA

Prep Batch: 24355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	16.0	J	999	1212		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1077		mg/Kg		108	70 - 130

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane	97		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 890-2237-1 MSD

Matrix: Solid

Analysis Batch: 24575

Client Sample ID: TP20-S

Prep Type: Total/NA

Prep Batch: 24355

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	16.0	J	999	1221		mg/Kg		121	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1092		mg/Kg		109	70 - 130	1	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane	98		70 - 130
o-Terphenyl	88		70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

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

Lab Sample ID: MB 880-24356/1-A

Matrix: Solid

Analysis Batch: 24366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 19:44	1
Diesel Range Organics (Over C10-C28)	19.66	J	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/27/22 16:45	04/28/22 19:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/27/22 16:45	04/28/22 19:44	1
o-Terphenyl	100		70 - 130				04/27/22 16:45	04/28/22 19:44	1

Lab Sample ID: LCS 880-24356/2-A

Matrix: Solid

Analysis Batch: 24366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1119		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	883.8		mg/Kg		88	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	97		70 - 130				
o-Terphenyl	118		70 - 130				

Lab Sample ID: LCSD 880-24356/3-A

Matrix: Solid

Analysis Batch: 24366

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24356

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1104		mg/Kg		110	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	870.0		mg/Kg		87	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	118		70 - 130						

Lab Sample ID: 890-2237-21 MS

Matrix: Solid

Analysis Batch: 24366

Client Sample ID: TP23-2

Prep Type: Total/NA

Prep Batch: 24356

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	23.5	J	999	840.0		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	19.6	J B	999	717.9		mg/Kg		70	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

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

Lab Sample ID: 890-2237-21 MS

Matrix: Solid

Analysis Batch: 24366

Client Sample ID: TP23-2

Prep Type: Total/NA

Prep Batch: 24356

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 890-2237-21 MSD

Matrix: Solid

Analysis Batch: 24366

Client Sample ID: TP23-2

Prep Type: Total/NA

Prep Batch: 24356

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	23.5	J	999	893.3		mg/Kg		87	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	19.6	J B	999	833.5		mg/Kg		81	70 - 130	15	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	95		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24328/1-A

Matrix: Solid

Analysis Batch: 24493

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00	0.858	mg/Kg			04/29/22 08:34	1	

Lab Sample ID: LCS 880-24328/2-A

Matrix: Solid

Analysis Batch: 24493

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	251.4		mg/Kg		101	90 - 110			

Lab Sample ID: LCSD 880-24328/3-A

Matrix: Solid

Analysis Batch: 24493

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec	RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		RPD	Limit
Chloride	250	252.3		mg/Kg		101	90 - 110		0	20

Lab Sample ID: 890-2237-1 MS

Matrix: Solid

Analysis Batch: 24493

Client Sample ID: TP20-S

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	51.7		252	283.9		mg/Kg		92	90 - 110	

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2237-1 MSD

Matrix: Solid

Analysis Batch: 24493

Client Sample ID: TP20-S

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	51.7		252	296.5		mg/Kg		97	90 - 110	4	20

Lab Sample ID: 890-2237-11 MS

Matrix: Solid

Analysis Batch: 24493

Client Sample ID: TP22-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	530	F1	249	743.4	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 890-2237-11 MSD

Matrix: Solid

Analysis Batch: 24493

Client Sample ID: TP22-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	530	F1	249	743.3	F1	mg/Kg		86	90 - 110	0	20

Lab Sample ID: MB 880-24329/1-A

Matrix: Solid

Analysis Batch: 24495

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	0.858	mg/Kg			04/29/22 08:37	1

Lab Sample ID: LCS 880-24329/2-A

Matrix: Solid

Analysis Batch: 24495

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	240.8		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-24329/3-A

Matrix: Solid

Analysis Batch: 24495

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	254.8		mg/Kg		102	90 - 110	6	20

Lab Sample ID: 890-2237-21 MS

Matrix: Solid

Analysis Batch: 24495

Client Sample ID: TP23-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	330		248	566.5		mg/Kg		95	90 - 110		

Lab Sample ID: 890-2237-21 MSD

Matrix: Solid

Analysis Batch: 24495

Client Sample ID: TP23-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	330		248	552.3		mg/Kg		90	90 - 110	3	20

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

GC VOA

Prep Batch: 24316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-24316/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 24321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-24321/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 24525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-1	TP20-S	Total/NA	Solid	5035	
890-2237-2	TP20-2	Total/NA	Solid	5035	
890-2237-3	TP1-S	Total/NA	Solid	5035	
890-2237-4	TP-2	Total/NA	Solid	5035	
890-2237-5	TP1-3	Total/NA	Solid	5035	
890-2237-6	TP2-S	Total/NA	Solid	5035	
890-2237-7	TP2-2	Total/NA	Solid	5035	
890-2237-8	TP21-S	Total/NA	Solid	5035	
890-2237-9	TP21-2	Total/NA	Solid	5035	
890-2237-10	TP22-S	Total/NA	Solid	5035	
890-2237-11	TP22-2	Total/NA	Solid	5035	
890-2237-12	TP4-2	Total/NA	Solid	5035	
890-2237-13	TP4-4	Total/NA	Solid	5035	
890-2237-14	TP5-S	Total/NA	Solid	5035	
890-2237-15	TP5-2	Total/NA	Solid	5035	
890-2237-16	TP3-2	Total/NA	Solid	5035	
890-2237-17	TP3-4	Total/NA	Solid	5035	
890-2237-18	TP6-2	Total/NA	Solid	5035	
890-2237-19	TP6-4	Total/NA	Solid	5035	
890-2237-20	TP23-S	Total/NA	Solid	5035	
MB 880-24525/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24525/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24525/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2237-1 MS	TP20-S	Total/NA	Solid	5035	
890-2237-1 MSD	TP20-S	Total/NA	Solid	5035	

Prep Batch: 24528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-21	TP23-2	Total/NA	Solid	5035	
890-2237-22	TP7-2	Total/NA	Solid	5035	
890-2237-23	TP7-4	Total/NA	Solid	5035	
890-2237-24	TP18-S	Total/NA	Solid	5035	
890-2237-25	TP18-2	Total/NA	Solid	5035	
890-2237-26	TP19-S	Total/NA	Solid	5035	
890-2237-27	TP19-2	Total/NA	Solid	5035	
MB 880-24528/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24528/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24528/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2237-21 MS	TP23-2	Total/NA	Solid	5035	
890-2237-21 MSD	TP23-2	Total/NA	Solid	5035	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

GC VOA

Analysis Batch: 24806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-21	TP23-2	Total/NA	Solid	8021B	24528
890-2237-22	TP7-2	Total/NA	Solid	8021B	24528
890-2237-23	TP7-4	Total/NA	Solid	8021B	24528
890-2237-24	TP18-S	Total/NA	Solid	8021B	24528
890-2237-25	TP18-2	Total/NA	Solid	8021B	24528
890-2237-26	TP19-S	Total/NA	Solid	8021B	24528
890-2237-27	TP19-2	Total/NA	Solid	8021B	24528
MB 880-24316/5-A	Method Blank	Total/NA	Solid	8021B	24316
MB 880-24528/5-A	Method Blank	Total/NA	Solid	8021B	24528
LCS 880-24528/1-A	Lab Control Sample	Total/NA	Solid	8021B	24528
LCSD 880-24528/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24528
890-2237-21 MS	TP23-2	Total/NA	Solid	8021B	24528
890-2237-21 MSD	TP23-2	Total/NA	Solid	8021B	24528

Analysis Batch: 24808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-1	TP20-S	Total/NA	Solid	8021B	24525
890-2237-2	TP20-2	Total/NA	Solid	8021B	24525
890-2237-3	TP1-S	Total/NA	Solid	8021B	24525
890-2237-4	TP-2	Total/NA	Solid	8021B	24525
890-2237-5	TP1-3	Total/NA	Solid	8021B	24525
890-2237-6	TP2-S	Total/NA	Solid	8021B	24525
890-2237-7	TP2-2	Total/NA	Solid	8021B	24525
890-2237-8	TP21-S	Total/NA	Solid	8021B	24525
890-2237-9	TP21-2	Total/NA	Solid	8021B	24525
890-2237-10	TP22-S	Total/NA	Solid	8021B	24525
890-2237-11	TP22-2	Total/NA	Solid	8021B	24525
890-2237-12	TP4-2	Total/NA	Solid	8021B	24525
890-2237-13	TP4-4	Total/NA	Solid	8021B	24525
890-2237-14	TP5-S	Total/NA	Solid	8021B	24525
890-2237-15	TP5-2	Total/NA	Solid	8021B	24525
890-2237-16	TP3-2	Total/NA	Solid	8021B	24525
890-2237-17	TP3-4	Total/NA	Solid	8021B	24525
890-2237-18	TP6-2	Total/NA	Solid	8021B	24525
890-2237-19	TP6-4	Total/NA	Solid	8021B	24525
890-2237-20	TP23-S	Total/NA	Solid	8021B	24525
MB 880-24321/5-A	Method Blank	Total/NA	Solid	8021B	24321
MB 880-24525/5-A	Method Blank	Total/NA	Solid	8021B	24525
LCS 880-24525/1-A	Lab Control Sample	Total/NA	Solid	8021B	24525
LCSD 880-24525/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24525
890-2237-1 MS	TP20-S	Total/NA	Solid	8021B	24525
890-2237-1 MSD	TP20-S	Total/NA	Solid	8021B	24525

Analysis Batch: 24897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-1	TP20-S	Total/NA	Solid	Total BTEX	
890-2237-2	TP20-2	Total/NA	Solid	Total BTEX	
890-2237-3	TP1-S	Total/NA	Solid	Total BTEX	
890-2237-4	TP-2	Total/NA	Solid	Total BTEX	
890-2237-5	TP1-3	Total/NA	Solid	Total BTEX	
890-2237-6	TP2-S	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

GC VOA (Continued)

Analysis Batch: 24897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-7	TP2-2	Total/NA	Solid	Total BTEX	
890-2237-8	TP21-S	Total/NA	Solid	Total BTEX	
890-2237-9	TP21-2	Total/NA	Solid	Total BTEX	
890-2237-10	TP22-S	Total/NA	Solid	Total BTEX	
890-2237-11	TP22-2	Total/NA	Solid	Total BTEX	
890-2237-12	TP4-2	Total/NA	Solid	Total BTEX	
890-2237-13	TP4-4	Total/NA	Solid	Total BTEX	
890-2237-14	TP5-S	Total/NA	Solid	Total BTEX	
890-2237-15	TP5-2	Total/NA	Solid	Total BTEX	
890-2237-16	TP3-2	Total/NA	Solid	Total BTEX	
890-2237-17	TP3-4	Total/NA	Solid	Total BTEX	
890-2237-18	TP6-2	Total/NA	Solid	Total BTEX	
890-2237-19	TP6-4	Total/NA	Solid	Total BTEX	
890-2237-20	TP23-S	Total/NA	Solid	Total BTEX	
890-2237-21	TP23-2	Total/NA	Solid	Total BTEX	
890-2237-22	TP7-2	Total/NA	Solid	Total BTEX	
890-2237-23	TP7-4	Total/NA	Solid	Total BTEX	
890-2237-24	TP18-S	Total/NA	Solid	Total BTEX	
890-2237-25	TP18-2	Total/NA	Solid	Total BTEX	
890-2237-26	TP19-S	Total/NA	Solid	Total BTEX	
890-2237-27	TP19-2	Total/NA	Solid	Total BTEX	

Prep Batch: 25027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-27	TP19-2	Total/NA	Solid	5035	
MB 880-25027/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25027/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25027/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 25033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-27	TP19-2	Total/NA	Solid	8021B	25027
MB 880-25027/5-A	Method Blank	Total/NA	Solid	8021B	25027
LCS 880-25027/1-A	Lab Control Sample	Total/NA	Solid	8021B	25027
LCSD 880-25027/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25027

GC Semi VOA

Prep Batch: 24355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-1	TP20-S	Total/NA	Solid	8015NM Prep	
890-2237-2	TP20-2	Total/NA	Solid	8015NM Prep	
890-2237-3	TP1-S	Total/NA	Solid	8015NM Prep	
890-2237-4	TP-2	Total/NA	Solid	8015NM Prep	
890-2237-5	TP1-3	Total/NA	Solid	8015NM Prep	
890-2237-6	TP2-S	Total/NA	Solid	8015NM Prep	
890-2237-7	TP2-2	Total/NA	Solid	8015NM Prep	
890-2237-8	TP21-S	Total/NA	Solid	8015NM Prep	
890-2237-9	TP21-2	Total/NA	Solid	8015NM Prep	
890-2237-10	TP22-S	Total/NA	Solid	8015NM Prep	
890-2237-11	TP22-2	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

GC Semi VOA (Continued)

Prep Batch: 24355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-12	TP4-2	Total/NA	Solid	8015NM Prep	
890-2237-13	TP4-4	Total/NA	Solid	8015NM Prep	
890-2237-14	TP5-S	Total/NA	Solid	8015NM Prep	
890-2237-15	TP5-2	Total/NA	Solid	8015NM Prep	
890-2237-16	TP3-2	Total/NA	Solid	8015NM Prep	
890-2237-17	TP3-4	Total/NA	Solid	8015NM Prep	
890-2237-18	TP6-2	Total/NA	Solid	8015NM Prep	
890-2237-19	TP6-4	Total/NA	Solid	8015NM Prep	
890-2237-20	TP23-S	Total/NA	Solid	8015NM Prep	
MB 880-24355/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24355/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24355/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2237-1 MS	TP20-S	Total/NA	Solid	8015NM Prep	
890-2237-1 MSD	TP20-S	Total/NA	Solid	8015NM Prep	

Prep Batch: 24356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-21	TP23-2	Total/NA	Solid	8015NM Prep	
890-2237-22	TP7-2	Total/NA	Solid	8015NM Prep	
890-2237-23	TP7-4	Total/NA	Solid	8015NM Prep	
890-2237-24	TP18-S	Total/NA	Solid	8015NM Prep	
890-2237-25	TP18-2	Total/NA	Solid	8015NM Prep	
890-2237-26	TP19-S	Total/NA	Solid	8015NM Prep	
890-2237-27	TP19-2	Total/NA	Solid	8015NM Prep	
MB 880-24356/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24356/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2237-21 MS	TP23-2	Total/NA	Solid	8015NM Prep	
890-2237-21 MSD	TP23-2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-21	TP23-2	Total/NA	Solid	8015B NM	24356
890-2237-22	TP7-2	Total/NA	Solid	8015B NM	24356
890-2237-23	TP7-4	Total/NA	Solid	8015B NM	24356
890-2237-24	TP18-S	Total/NA	Solid	8015B NM	24356
890-2237-25	TP18-2	Total/NA	Solid	8015B NM	24356
890-2237-26	TP19-S	Total/NA	Solid	8015B NM	24356
890-2237-27	TP19-2	Total/NA	Solid	8015B NM	24356
MB 880-24356/1-A	Method Blank	Total/NA	Solid	8015B NM	24356
LCS 880-24356/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24356
LCSD 880-24356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24356
890-2237-21 MS	TP23-2	Total/NA	Solid	8015B NM	24356
890-2237-21 MSD	TP23-2	Total/NA	Solid	8015B NM	24356

Analysis Batch: 24540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-1	TP20-S	Total/NA	Solid	8015 NM	
890-2237-2	TP20-2	Total/NA	Solid	8015 NM	
890-2237-3	TP1-S	Total/NA	Solid	8015 NM	
890-2237-4	TP-2	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

GC Semi VOA (Continued)

Analysis Batch: 24540 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-5	TP1-3	Total/NA	Solid	8015 NM	
890-2237-6	TP2-S	Total/NA	Solid	8015 NM	
890-2237-7	TP2-2	Total/NA	Solid	8015 NM	
890-2237-8	TP21-S	Total/NA	Solid	8015 NM	
890-2237-9	TP21-2	Total/NA	Solid	8015 NM	
890-2237-10	TP22-S	Total/NA	Solid	8015 NM	
890-2237-11	TP22-2	Total/NA	Solid	8015 NM	
890-2237-12	TP4-2	Total/NA	Solid	8015 NM	
890-2237-13	TP4-4	Total/NA	Solid	8015 NM	
890-2237-14	TP5-S	Total/NA	Solid	8015 NM	
890-2237-15	TP5-2	Total/NA	Solid	8015 NM	
890-2237-16	TP3-2	Total/NA	Solid	8015 NM	
890-2237-17	TP3-4	Total/NA	Solid	8015 NM	
890-2237-18	TP6-2	Total/NA	Solid	8015 NM	
890-2237-19	TP6-4	Total/NA	Solid	8015 NM	
890-2237-20	TP23-S	Total/NA	Solid	8015 NM	
890-2237-21	TP23-2	Total/NA	Solid	8015 NM	
890-2237-22	TP7-2	Total/NA	Solid	8015 NM	
890-2237-23	TP7-4	Total/NA	Solid	8015 NM	
890-2237-24	TP18-S	Total/NA	Solid	8015 NM	
890-2237-25	TP18-2	Total/NA	Solid	8015 NM	
890-2237-26	TP19-S	Total/NA	Solid	8015 NM	
890-2237-27	TP19-2	Total/NA	Solid	8015 NM	

Analysis Batch: 24575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-1	TP20-S	Total/NA	Solid	8015B NM	24355
890-2237-2	TP20-2	Total/NA	Solid	8015B NM	24355
890-2237-3	TP1-S	Total/NA	Solid	8015B NM	24355
890-2237-4	TP-2	Total/NA	Solid	8015B NM	24355
890-2237-5	TP1-3	Total/NA	Solid	8015B NM	24355
890-2237-6	TP2-S	Total/NA	Solid	8015B NM	24355
890-2237-7	TP2-2	Total/NA	Solid	8015B NM	24355
890-2237-8	TP21-S	Total/NA	Solid	8015B NM	24355
890-2237-9	TP21-2	Total/NA	Solid	8015B NM	24355
890-2237-10	TP22-S	Total/NA	Solid	8015B NM	24355
890-2237-11	TP22-2	Total/NA	Solid	8015B NM	24355
890-2237-12	TP4-2	Total/NA	Solid	8015B NM	24355
890-2237-13	TP4-4	Total/NA	Solid	8015B NM	24355
890-2237-14	TP5-S	Total/NA	Solid	8015B NM	24355
890-2237-15	TP5-2	Total/NA	Solid	8015B NM	24355
890-2237-16	TP3-2	Total/NA	Solid	8015B NM	24355
890-2237-17	TP3-4	Total/NA	Solid	8015B NM	24355
890-2237-18	TP6-2	Total/NA	Solid	8015B NM	24355
890-2237-19	TP6-4	Total/NA	Solid	8015B NM	24355
890-2237-20	TP23-S	Total/NA	Solid	8015B NM	24355
MB 880-24355/1-A	Method Blank	Total/NA	Solid	8015B NM	24355
LCS 880-24355/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24355
LCSD 880-24355/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24355
890-2237-1 MS	TP20-S	Total/NA	Solid	8015B NM	24355
890-2237-1 MSD	TP20-S	Total/NA	Solid	8015B NM	24355

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

HPLC/IC

Leach Batch: 24328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-1	TP20-S	Soluble	Solid	DI Leach	
890-2237-2	TP20-2	Soluble	Solid	DI Leach	
890-2237-3	TP1-S	Soluble	Solid	DI Leach	
890-2237-4	TP-2	Soluble	Solid	DI Leach	
890-2237-5	TP1-3	Soluble	Solid	DI Leach	
890-2237-6	TP2-S	Soluble	Solid	DI Leach	
890-2237-7	TP2-2	Soluble	Solid	DI Leach	
890-2237-8	TP21-S	Soluble	Solid	DI Leach	
890-2237-9	TP21-2	Soluble	Solid	DI Leach	
890-2237-10	TP22-S	Soluble	Solid	DI Leach	
890-2237-11	TP22-2	Soluble	Solid	DI Leach	
890-2237-12	TP4-2	Soluble	Solid	DI Leach	
890-2237-13	TP4-4	Soluble	Solid	DI Leach	
890-2237-14	TP5-S	Soluble	Solid	DI Leach	
890-2237-15	TP5-2	Soluble	Solid	DI Leach	
890-2237-16	TP3-2	Soluble	Solid	DI Leach	
890-2237-17	TP3-4	Soluble	Solid	DI Leach	
890-2237-18	TP6-2	Soluble	Solid	DI Leach	
890-2237-19	TP6-4	Soluble	Solid	DI Leach	
890-2237-20	TP23-S	Soluble	Solid	DI Leach	
MB 880-24328/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24328/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24328/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2237-1 MS	TP20-S	Soluble	Solid	DI Leach	
890-2237-1 MSD	TP20-S	Soluble	Solid	DI Leach	
890-2237-11 MS	TP22-2	Soluble	Solid	DI Leach	
890-2237-11 MSD	TP22-2	Soluble	Solid	DI Leach	

Leach Batch: 24329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-21	TP23-2	Soluble	Solid	DI Leach	
890-2237-22	TP7-2	Soluble	Solid	DI Leach	
890-2237-23	TP7-4	Soluble	Solid	DI Leach	
890-2237-24	TP18-S	Soluble	Solid	DI Leach	
890-2237-25	TP18-2	Soluble	Solid	DI Leach	
890-2237-26	TP19-S	Soluble	Solid	DI Leach	
890-2237-27	TP19-2	Soluble	Solid	DI Leach	
MB 880-24329/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24329/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24329/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2237-21 MS	TP23-2	Soluble	Solid	DI Leach	
890-2237-21 MSD	TP23-2	Soluble	Solid	DI Leach	

Analysis Batch: 24493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-1	TP20-S	Soluble	Solid	300.0	24328
890-2237-2	TP20-2	Soluble	Solid	300.0	24328
890-2237-3	TP1-S	Soluble	Solid	300.0	24328
890-2237-4	TP-2	Soluble	Solid	300.0	24328
890-2237-5	TP1-3	Soluble	Solid	300.0	24328
890-2237-6	TP2-S	Soluble	Solid	300.0	24328

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

HPLC/IC (Continued)

Analysis Batch: 24493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-7	TP2-2	Soluble	Solid	300.0	24328
890-2237-8	TP21-S	Soluble	Solid	300.0	24328
890-2237-9	TP21-2	Soluble	Solid	300.0	24328
890-2237-10	TP22-S	Soluble	Solid	300.0	24328
890-2237-11	TP22-2	Soluble	Solid	300.0	24328
890-2237-12	TP4-2	Soluble	Solid	300.0	24328
890-2237-13	TP4-4	Soluble	Solid	300.0	24328
890-2237-14	TP5-S	Soluble	Solid	300.0	24328
890-2237-15	TP5-2	Soluble	Solid	300.0	24328
890-2237-16	TP3-2	Soluble	Solid	300.0	24328
890-2237-17	TP3-4	Soluble	Solid	300.0	24328
890-2237-18	TP6-2	Soluble	Solid	300.0	24328
890-2237-19	TP6-4	Soluble	Solid	300.0	24328
890-2237-20	TP23-S	Soluble	Solid	300.0	24328
MB 880-24328/1-A	Method Blank	Soluble	Solid	300.0	24328
LCS 880-24328/2-A	Lab Control Sample	Soluble	Solid	300.0	24328
LCSD 880-24328/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24328
890-2237-1 MS	TP20-S	Soluble	Solid	300.0	24328
890-2237-1 MSD	TP20-S	Soluble	Solid	300.0	24328
890-2237-11 MS	TP22-2	Soluble	Solid	300.0	24328
890-2237-11 MSD	TP22-2	Soluble	Solid	300.0	24328

Analysis Batch: 24495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2237-21	TP23-2	Soluble	Solid	300.0	24329
890-2237-22	TP7-2	Soluble	Solid	300.0	24329
890-2237-23	TP7-4	Soluble	Solid	300.0	24329
890-2237-24	TP18-S	Soluble	Solid	300.0	24329
890-2237-25	TP18-2	Soluble	Solid	300.0	24329
890-2237-26	TP19-S	Soluble	Solid	300.0	24329
890-2237-27	TP19-2	Soluble	Solid	300.0	24329
MB 880-24329/1-A	Method Blank	Soluble	Solid	300.0	24329
LCS 880-24329/2-A	Lab Control Sample	Soluble	Solid	300.0	24329
LCSD 880-24329/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24329
890-2237-21 MS	TP23-2	Soluble	Solid	300.0	24329
890-2237-21 MSD	TP23-2	Soluble	Solid	300.0	24329

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP20-S

Lab Sample ID: 890-2237-1

Date Collected: 04/25/22 09:00

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 04:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 12:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 09:01	CH	XEN MID

Client Sample ID: TP20-2

Lab Sample ID: 890-2237-2

Date Collected: 04/25/22 09:15

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 05:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 13:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 09:27	CH	XEN MID

Client Sample ID: TP1-S

Lab Sample ID: 890-2237-3

Date Collected: 04/25/22 09:30

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 05:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 13:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 09:36	CH	XEN MID

Client Sample ID: TP-2

Lab Sample ID: 890-2237-4

Date Collected: 04/25/22 09:40

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 05:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP-2

Lab Sample ID: 890-2237-4

Date Collected: 04/25/22 09:40

Matrix: Solid

Date Received: 04/25/22 16:17

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			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 14:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 09:45	CH	XEN MID

Client Sample ID: TP1-3

Lab Sample ID: 890-2237-5

Date Collected: 04/25/22 09:47

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 06:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 09:54	CH	XEN MID

Client Sample ID: TP2-S

Lab Sample ID: 890-2237-6

Date Collected: 04/25/22 10:00

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 06:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 14:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 10:20	CH	XEN MID

Client Sample ID: TP2-2

Lab Sample ID: 890-2237-7

Date Collected: 04/25/22 10:10

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 06:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 15:15	AJ	XEN MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP2-2

Lab Sample ID: 890-2237-7

Date Collected: 04/25/22 10:10

Matrix: Solid

Date Received: 04/25/22 16:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 10:29	CH	XEN MID

Client Sample ID: TP21-S

Lab Sample ID: 890-2237-8

Date Collected: 04/25/22 10:20

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 07:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 15:37	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 10:38	CH	XEN MID

Client Sample ID: TP21-2

Lab Sample ID: 890-2237-9

Date Collected: 04/25/22 10:30

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 07:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 15:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 10:47	CH	XEN MID

Client Sample ID: TP22-S

Lab Sample ID: 890-2237-10

Date Collected: 04/25/22 10:40

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 07:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 16:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 10:56	CH	XEN MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP22-2

Lab Sample ID: 890-2237-11

Date Collected: 04/25/22 10:45

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 10:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 17:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 11:05	CH	XEN MID

Client Sample ID: TP4-2

Lab Sample ID: 890-2237-12

Date Collected: 04/25/22 10:55

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 10:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 11:31	CH	XEN MID

Client Sample ID: TP4-4

Lab Sample ID: 890-2237-13

Date Collected: 04/25/22 11:05

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 11:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 11:40	CH	XEN MID

Client Sample ID: TP5-S

Lab Sample ID: 890-2237-14

Date Collected: 04/25/22 11:30

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 11:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP5-S

Lab Sample ID: 890-2237-14

Date Collected: 04/25/22 11:30

Matrix: Solid

Date Received: 04/25/22 16:17

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			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 18:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 12:07	CH	XEN MID

Client Sample ID: TP5-2

Lab Sample ID: 890-2237-15

Date Collected: 04/25/22 11:35

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 11:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 18:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 12:16	CH	XEN MID

Client Sample ID: TP3-2

Lab Sample ID: 890-2237-16

Date Collected: 04/25/22 11:45

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 12:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 19:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 12:25	CH	XEN MID

Client Sample ID: TP3-4

Lab Sample ID: 890-2237-17

Date Collected: 04/25/22 11:50

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 12:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 19:35	AJ	XEN MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP3-4

Lab Sample ID: 890-2237-17

Date Collected: 04/25/22 11:50

Matrix: Solid

Date Received: 04/25/22 16:17

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 12:33	CH	XEN MID

Client Sample ID: TP6-2

Lab Sample ID: 890-2237-18

Date Collected: 04/25/22 12:05

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 13:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 19:56	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 12:42	CH	XEN MID

Client Sample ID: TP6-4

Lab Sample ID: 890-2237-19

Date Collected: 04/25/22 12:10

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 13:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 20:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 12:51	CH	XEN MID

Client Sample ID: TP23-S

Lab Sample ID: 890-2237-20

Date Collected: 04/25/22 13:10

Matrix: Solid

Date Received: 04/25/22 16:17

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	24525	04/29/22 14:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24808	05/05/22 13:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24355	04/27/22 16:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24575	05/01/22 20:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24328	04/27/22 12:43	SC	XEN MID
Soluble	Analysis	300.0		1			24493	04/29/22 13:00	CH	XEN MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP23-2

Lab Sample ID: 890-2237-21

Date Collected: 04/25/22 12:20

Matrix: Solid

Date Received: 04/25/22 16:17

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	24528	04/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24806	05/05/22 08:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/28/22 20:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24329	04/27/22 12:46	SC	XEN MID
Soluble	Analysis	300.0		1			24495	04/29/22 09:05	CH	XEN MID

Client Sample ID: TP7-2

Lab Sample ID: 890-2237-22

Date Collected: 04/25/22 13:25

Matrix: Solid

Date Received: 04/25/22 16:17

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	24528	04/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24806	05/05/22 09:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/28/22 21:49	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24329	04/27/22 12:46	SC	XEN MID
Soluble	Analysis	300.0		1			24495	04/29/22 09:32	CH	XEN MID

Client Sample ID: TP7-4

Lab Sample ID: 890-2237-23

Date Collected: 04/25/22 13:35

Matrix: Solid

Date Received: 04/25/22 16:17

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	24528	04/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24806	05/05/22 09:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/28/22 22:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24329	04/27/22 12:46	SC	XEN MID
Soluble	Analysis	300.0		5			24495	04/29/22 09:41	CH	XEN MID

Client Sample ID: TP18-S

Lab Sample ID: 890-2237-24

Date Collected: 04/25/22 13:55

Matrix: Solid

Date Received: 04/25/22 16:17

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	24528	04/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24806	05/05/22 10:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP18-S

Lab Sample ID: 890-2237-24

Date Collected: 04/25/22 13:55

Matrix: Solid

Date Received: 04/25/22 16:17

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			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/28/22 22:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24329	04/27/22 12:46	SC	XEN MID
Soluble	Analysis	300.0		1			24495	04/29/22 09:51	CH	XEN MID

Client Sample ID: TP18-2

Lab Sample ID: 890-2237-25

Date Collected: 04/25/22 14:05

Matrix: Solid

Date Received: 04/25/22 16:17

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	24528	04/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24806	05/05/22 11:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/28/22 22:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24329	04/27/22 12:46	SC	XEN MID
Soluble	Analysis	300.0		1			24495	04/29/22 10:00	CH	XEN MID

Client Sample ID: TP19-S

Lab Sample ID: 890-2237-26

Date Collected: 04/25/22 14:15

Matrix: Solid

Date Received: 04/25/22 16:17

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	24528	04/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24806	05/05/22 11:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/28/22 23:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24329	04/27/22 12:46	SC	XEN MID
Soluble	Analysis	300.0		1			24495	04/29/22 10:27	CH	XEN MID

Client Sample ID: TP19-2

Lab Sample ID: 890-2237-27

Date Collected: 04/25/22 14:25

Matrix: Solid

Date Received: 04/25/22 16:17

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	25027	05/07/22 12:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25033	05/08/22 01:08	MR	XEN MID
Total/NA	Prep	5035			4.97 g	5 mL	24528	04/29/22 14:58	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24806	05/05/22 11:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24897	05/05/22 13:00	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24540	04/29/22 16:37	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Client Sample ID: TP19-2

Date Collected: 04/25/22 14:25

Date Received: 04/25/22 16:17

Lab Sample ID: 890-2237-27

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	8015NM Prep			10.00 g	10 mL	24356	04/27/22 16:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24366	04/28/22 23:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24329	04/27/22 12:46	SC	XEN MID
Soluble	Analysis	300.0		1			24495	04/29/22 10:37	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

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	T104704400-21-22	06-30-22

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: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN 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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2237-1
SDG: 12581651

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2237-1	TP20-S	Solid	04/25/22 09:00	04/25/22 16:17	SURFACE
890-2237-2	TP20-2	Solid	04/25/22 09:15	04/25/22 16:17	2
890-2237-3	TP1-S	Solid	04/25/22 09:30	04/25/22 16:17	SURFACE
890-2237-4	TP-2	Solid	04/25/22 09:40	04/25/22 16:17	2
890-2237-5	TP1-3	Solid	04/25/22 09:47	04/25/22 16:17	3
890-2237-6	TP2-S	Solid	04/25/22 10:00	04/25/22 16:17	SURFACE
890-2237-7	TP2-2	Solid	04/25/22 10:10	04/25/22 16:17	2
890-2237-8	TP21-S	Solid	04/25/22 10:20	04/25/22 16:17	SURFACE
890-2237-9	TP21-2	Solid	04/25/22 10:30	04/25/22 16:17	2
890-2237-10	TP22-S	Solid	04/25/22 10:40	04/25/22 16:17	SURFACE
890-2237-11	TP22-2	Solid	04/25/22 10:45	04/25/22 16:17	2
890-2237-12	TP4-2	Solid	04/25/22 10:55	04/25/22 16:17	2
890-2237-13	TP4-4	Solid	04/25/22 11:05	04/25/22 16:17	4
890-2237-14	TP5-S	Solid	04/25/22 11:30	04/25/22 16:17	SURFACE
890-2237-15	TP5-2	Solid	04/25/22 11:35	04/25/22 16:17	2
890-2237-16	TP3-2	Solid	04/25/22 11:45	04/25/22 16:17	2
890-2237-17	TP3-4	Solid	04/25/22 11:50	04/25/22 16:17	4
890-2237-18	TP6-2	Solid	04/25/22 12:05	04/25/22 16:17	2
890-2237-19	TP6-4	Solid	04/25/22 12:10	04/25/22 16:17	4
890-2237-20	TP23-S	Solid	04/25/22 13:10	04/25/22 16:17	SURFACE
890-2237-21	TP23-2	Solid	04/25/22 12:20	04/25/22 16:17	2
890-2237-22	TP7-2	Solid	04/25/22 13:25	04/25/22 16:17	2
890-2237-23	TP7-4	Solid	04/25/22 13:35	04/25/22 16:17	4
890-2237-24	TP18-S	Solid	04/25/22 13:55	04/25/22 16:17	SURFACE
890-2237-25	TP18-2	Solid	04/25/22 14:05	04/25/22 16:17	2
890-2237-26	TP19-S	Solid	04/25/22 14:15	04/25/22 16:17	SURFACE
890-2237-27	TP19-2	Solid	04/25/22 14:25	04/25/22 16:17	2



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CHAIN OF CUSTODY

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Service Center - San Antonio, Texas (210-509-3334)			Xenco Quote #	Xenco Job #														
			MATRIX CODES															
S = Soil/Sediment GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Waste Water O = Oil WW= Waste Water A = Air																		
Client / Reporting Information		Project Name/Number:		Matrix Codes														
Company Name / Branch: GHD/Midland		Merchant Livestock 30 / 12581651																
Company Address: 2135 S. Loop 250 West Midland TX		Eddy County, New Mexico																
Email: Becky.Haskell@ghd.com Phone No.: (432)250-7917		Invoice To: Centennial Resource Development, Inc / Nikki Mishler																
Matthew.Jauchin@ghd.com Zach.Cornino@ghd.com																		
Nikki.Mishler@cdevinc.com tom.larson@ghd.com																		
Project Contact: Becky Haskell / Glenn Quimney		PO Number: NA																
Sampler's Name Zach Cornino																		
No.	Field ID / Point of Collection	Collection Date	Time	Matrix bottles	HCl	NaOH/Zn Acetate	HNO ₃	H ₂ SO ₄	NaOH	NaHSO ₄	MeOH	NONE	TPH By 8015 Mod (GRO, DRO & MRO)	BTEX 8021 B	Chloride 600			
1	TP20-S	CHS224D90C	0715	S									x	x	x			
2	TP20-2		0715										x	x	x			
3	TP1-B		0715										x	x	x			
4	TP1-2		0715										x	x	x			
5	TP2-S		0715										x	x	x			
6	TP2-2		0715										x	x	x			
7	TP2-5		0715										x	x	x			
8	TP2-1-S		0715										x	x	x			
9	TP2-1-2		0715										x	x	x			
10	TP22-S		0715										x	x	x			
Turnaround Time (Business days)													Data Deliverable information					
☐ Same Day TAT		☒ 5 Day TAT		☐ Level II Std QC		☐ Level IV (Full Data Pkg /raw data)												
☐ Next Day EMERGENCY		☐ 7 Day TAT		☐ Level III Std QC+ Forms		☐ TRRP Level IV												
☐ 2 Day EMERGENCY		☐ Contract TAT		☐ Level 3 (CLP Forms)		☐ UST / RG-411												
☐ 3 Day EMERGENCY				☐ TRRP Checklist														
TAT Starts Day received by Lab, if received by 5:00 pm													Report MDLs and J values.					
Relinquished by Sampler: _____ DATE TIME: _____													Received By: _____ DATE TIME: _____					
Relinquished by: _____ DATE TIME: _____													Received By: _____ DATE TIME: _____					
Relinquished by: _____ DATE TIME: _____													Received By: _____ DATE TIME: _____					
Preserved where applicable													On Ice Cooler Temp. Thermo. Corr. Factor					
_____													24.4/24.2 T-June67					
Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates' subcontractors and assigns XENCO'S standard terms and conditions of service unless previously negotiated under a fully executed client contract.																		



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 Tampa, Florida (813-620-2000)

Xenco Quote #

Xenco Job #

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes	
Company Name / Branch: GHDMidland		Project Name/Number: Merchant Livestock 30 / 12581651					
Company Address: 2138 S. Loop 280 West Midland TX		Project Location: Eddy County, New Mexico					
Email: becky.haskell@ghd.com Matthew.laughlin@ghd.com Nikki.mishler@cdelvine.com		Phone No: (432)250-7917 Zach.comino@ghd.com joni.larson@ghd.com		Invoice To: Centennial Resource Development, Inc / Nikki Mishler			
Project Contact: Becky Haskell / Glenn Quinney		PO Number: NA					
Sampler's Name: Zach Comino							
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles
1	TP22-2		06/26/2022	10:55	9	1	TPH By 8015 Mod (GRO, DRO & MRO)
2	TP4-2						BTEX 8021 B
3	TP4-4						Chloride 600
4	TP5-5						
5	TP5-2						
6	TP3-2						
7	TP3-4						
8	TP6-2						
9	TP6-4						
10	TP23-5						
Turnaround Time (Business days)		Data Deliverable Information					
☐ Same Day TAT		☒ 5 Day TAT		☐ Level II Std QC		☐ Level IV (Full Data Pkg / raw data)	
☐ Next Day EMERGENCY		☐ 7 Day TAT		☐ Level III Std QC+ Forms		☐ TRRP Level IV	
☐ 2 Day EMERGENCY		☐ Contract TAT		☐ Level 3 (CLP Forms)		☐ UST / RG 411	
☐ 3 Day EMERGENCY				☐ TRRP Checklist			
TAT Starts Day received by Lab, if received by 5:00 pm				Report MDLs and J values.			
Relinquished by Sampler: <u>Zach Comino</u>		Date Time: <u>06/22/2022</u>		Relinquished By: <u>2</u>		Date Time: <u>24/24/2</u>	
Relinquished by: <u>2</u>		Date Time: <u>06/22/2022</u>		Relinquished By: <u>2</u>		Date Time: <u>24/24/2</u>	
Relinquished by: <u>5</u>		Date Time: <u>06/22/2022</u>		Relinquished By: <u>2</u>		Date Time: <u>24/24/2</u>	
Custody Seal # <u>4</u>		Preserved where applicable		On Ice <u>24/24/2</u>		Cooler Temp. <u>24/24/2</u>	
Thermo, Corr. Factor <u>24/24/2</u>							

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Client / Reporting Information				Project Information				Analytical Information				Matrix Codes						
Company Name / Branch: GHDMidland				Project Name/Number: Merchant Livestock 30 / 12581651														
Company Address: 2135 S. Loop 280 West Midland TX				Project Location: Eddy County, New Mexico														
Email: Becky Haskell@ghd.com Matthew Laughlin@ghd.com Nikki Mishler@cdewinc.com Project Contact: Becky Haskell / Glenn Quinney				Phone No: (432)250-7917 Zach Comino@ghd.com tom.larson@ghd.com				Invoice To: Centennial Resource Development, Inc / Nikki Mishler										
Sample's Name Zach Comino				PO Number: NA														
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	TPH By 8015 Mod (GRO, DRO & MRO)	BTEX 8021 B	Chloride 600	Field Comments
1	TP23-2		07/24/20	5	1										X	X	X	
2	TP7-2				1325										X	X	X	
3	TP7-4				1335										X	X	X	
4	TP18-5				1355										X	X	X	
5	TP18-2				1405										X	X	X	
6	TP19-5				1415										X	X	X	
7	TP19-2				1425										X	X	X	
8															X	X	X	
9															X	X	X	
10															X	X	X	
Turnaround Time (Business days) 5																		
Data Deliverable Information																		
☐ Same Day TAT ☒ 5 Day TAT ☐ Level II Std QC ☐ Level IV (Full Data Pkg raw data) ☐ Next Day EMERGENCY ☐ 17 Day TAT ☐ Level III Std QC+ Forms ☐ TRRP Level IV ☐ 2 Day EMERGENCY ☐ Contract TAT ☐ Level 3 (CLP Forms) ☐ UST / RG 411 ☐ 3 Day EMERGENCY ☐ TRRP Checklist																		
TAT Starts Day received by Lab, if received by 5:00 pm																		
Report MDLs and J values.																		
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																		
Relinquished by Sampler: Zach Comino Date Time: 07/25/16 5:11 PM Received By: 2 Date Time: 07/25/16 5:11 PM																		
Relinquished by: 3 Date Time: 07/25/16 5:11 PM Received By: 4 Date Time: 07/25/16 5:11 PM																		
Relinquished by: 5 Date Time: 07/25/16 5:11 PM Received By: 6 Date Time: 07/25/16 5:11 PM																		
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Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2237-1

SDG Number: 12581651

Login Number: 2237

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.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2237-1

SDG Number: 12581651

Login Number: 2237

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 04/27/22 10:53 AM

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2244-1

Laboratory Sample Delivery Group: 12581651

Client Project/Site: Merchant Livestock 30

For:

GHD Services Inc.
2135 South Loop 250 West
Midland, Texas 79703

Attn: Becky Haskell

A handwritten signature in black ink, appearing to read "Debbie Simmons".

Authorized for release by:

5/11/2022 5:11:55 PM

Debbie Simmons, Project Manager
(832)986-6768

Debbie.Simmons@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Laboratory Job ID: 890-2244-1
SDG: 12581651

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
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.
S1-	Surrogate recovery exceeds control limits, low 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.
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

Eurofins Carlsbad

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

- 1
- 2
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- 13
- 14

Case Narrative

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Job ID: 890-2244-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2244-1****Receipt**

The samples were received on 4/26/2022 5:00 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 25.8°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: TP-16-S (890-2244-1), TP-16-2 (890-2244-2), TP-12-S (890-2244-3), TP-12-2 (890-2244-4), TP-12-4 (890-2244-5), TP-12-5 (890-2244-6), TP-17-S (890-2244-7), TP-17-2 (890-2244-8), TP-17-3 (890-2244-9), TP-11-S (890-2244-10), TP-11-2 (890-2244-11), TP-15-S (890-2244-12), TP-15-2 (890-2244-13), TP-15-4 (890-2244-14), (CCV 880-24955/20) and (CCV 880-24955/51). 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 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-24403 and analytical batch 880-24563 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-24405 and analytical batch 880-24563 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The method blank for preparation batch 880-24405 and analytical batch 880-24563 contained <AffectedAnalytes> 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.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-24405 and analytical batch 880-24563 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TP-11-S (890-2244-10), TP-15-S (890-2244-12), TP-9-S (890-2244-17), TP-10-S (890-2244-19), (890-2244-A-21-B MS) and (890-2244-A-21-C MSD). Evidence of matrix interferences is not obvious.

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24408 and analytical batch 880-24590 were outside control limits. Sample matrix interference and/or non-homogeneity are 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.

Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-16-S

Lab Sample ID: 890-2244-1

Date Collected: 04/26/22 09:05

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACT

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1 F2	0.00201	0.000387	mg/Kg	-	04/28/22 11:29	05/07/22 03:40	1
Toluene	<0.00201	U F1 F2	0.00201	0.000458	mg/Kg	-	04/28/22 11:29	05/07/22 03:40	1
Ethylbenzene	0.000812	J F1	0.00201	0.000567	mg/Kg	-	04/28/22 11:29	05/07/22 03:40	1
m-Xylene & p-Xylene	0.00898	F1	0.00402	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 03:40	1
o-Xylene	0.00534	F1	0.00201	0.000345	mg/Kg	-	04/28/22 11:29	05/07/22 03:40	1
Xylenes, Total	0.0143	F1	0.00402	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130	04/28/22 11:29	05/07/22 03:40	1
1,4-Difluorobenzene (Surr)	82		70 - 130	04/28/22 11:29	05/07/22 03:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0151		0.00402	0.00101	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	37.0	J	49.9	15.0	mg/Kg	-		05/02/22 11:24	1

Method: 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 *- *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 13:11	1
Diesel Range Organics (Over C10-C28)	37.0	J *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 13:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	04/28/22 11:20	04/30/22 13:11	1
o-Terphenyl	71		70 - 130	04/28/22 11:20	04/30/22 13:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.87		4.95	0.850	mg/Kg	-		05/01/22 15:03	1

Client Sample ID: TP-16-2

Lab Sample ID: 890-2244-2

Date Collected: 04/26/22 09:10

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg	-	04/28/22 11:29	05/07/22 04:06	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg	-	04/28/22 11:29	05/07/22 04:06	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg	-	04/28/22 11:29	05/07/22 04:06	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg	-	04/28/22 11:29	05/07/22 04:06	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg	-	04/28/22 11:29	05/07/22 04:06	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg	-	04/28/22 11:29	05/07/22 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130	04/28/22 11:29	05/07/22 04:06	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-16-2

Lab Sample ID: 890-2244-2

Date Collected: 04/26/22 09:10

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	04/28/22 11:29	05/07/22 04:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.6	J	50.0	15.0	mg/Kg			05/02/22 11:24	1

Method: 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 *- *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 14:15	1
Diesel Range Organics (Over C10-C28)	34.6	J *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 14:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				04/28/22 11:20	04/30/22 14:15	1
o-Terphenyl	80		70 - 130				04/28/22 11:20	04/30/22 14:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263		4.98	0.855	mg/Kg			05/01/22 15:12	1

Client Sample ID: TP-12-S

Lab Sample ID: 890-2244-3

Date Collected: 04/26/22 09:35

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		04/28/22 11:29	05/07/22 04:31	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		04/28/22 11:29	05/07/22 04:31	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		04/28/22 11:29	05/07/22 04:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		04/28/22 11:29	05/07/22 04:31	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		04/28/22 11:29	05/07/22 04:31	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		04/28/22 11:29	05/07/22 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	181	S1+	70 - 130	04/28/22 11:29	05/07/22 04:31	1
1,4-Difluorobenzene (Surr)	84		70 - 130	04/28/22 11:29	05/07/22 04:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.6	J	50.0	15.0	mg/Kg			05/02/22 11:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-12-S

Date Collected: 04/26/22 09:35

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Lab Sample ID: 890-2244-3

Matrix: Solid

Method: 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 *- *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 14:36	1
Diesel Range Organics (Over C10-C28)	34.6	J *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 14:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				04/28/22 11:20	04/30/22 14:36	1
o-Terphenyl	83		70 - 130				04/28/22 11:20	04/30/22 14:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6590		49.7	8.53	mg/Kg	-		05/01/22 15:21	10

Client Sample ID: TP-12-2

Date Collected: 04/26/22 09:40

Date Received: 04/26/22 17:00

Sample Depth: 2

Lab Sample ID: 890-2244-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg	-	04/28/22 11:29	05/07/22 04:57	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg	-	04/28/22 11:29	05/07/22 04:57	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg	-	04/28/22 11:29	05/07/22 04:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg	-	04/28/22 11:29	05/07/22 04:57	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg	-	04/28/22 11:29	05/07/22 04:57	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg	-	04/28/22 11:29	05/07/22 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130				04/28/22 11:29	05/07/22 04:57	1
1,4-Difluorobenzene (Surr)	83		70 - 130				04/28/22 11:29	05/07/22 04:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	31.2	J	50.0	15.0	mg/Kg	-		05/02/22 11:24	1

Method: 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 *- *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 14:57	1
Diesel Range Organics (Over C10-C28)	31.2	J *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 14:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				04/28/22 11:20	04/30/22 14:57	1
o-Terphenyl	79		70 - 130				04/28/22 11:20	04/30/22 14:57	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-12-2

Lab Sample ID: 890-2244-4

Date Collected: 04/26/22 09:40

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2290		25.0	4.28	mg/Kg			05/01/22 15:30	5

Client Sample ID: TP-12-4

Lab Sample ID: 890-2244-5

Date Collected: 04/26/22 09:50

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		04/28/22 11:29	05/07/22 05:22	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		04/28/22 11:29	05/07/22 05:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		04/28/22 11:29	05/07/22 05:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		04/28/22 11:29	05/07/22 05:22	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		04/28/22 11:29	05/07/22 05:22	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		04/28/22 11:29	05/07/22 05:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	191	S1+	70 - 130				04/28/22 11:29	05/07/22 05:22	1
1,4-Difluorobenzene (Surr)	84		70 - 130				04/28/22 11:29	05/07/22 05:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	27.2	J	49.9	15.0	mg/Kg			05/02/22 11:24	1

Method: 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 *- *1	49.9	15.0	mg/Kg		04/28/22 11:20	04/30/22 15:18	1
Diesel Range Organics (Over C10-C28)	27.2	J *1	49.9	15.0	mg/Kg		04/28/22 11:20	04/30/22 15:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		04/28/22 11:20	04/30/22 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				04/28/22 11:20	04/30/22 15:18	1
o-Terphenyl	88		70 - 130				04/28/22 11:20	04/30/22 15:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1850		24.8	4.26	mg/Kg			05/01/22 15:56	5

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-12-5

Lab Sample ID: 890-2244-6

Date Collected: 04/26/22 10:10

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg	-	04/28/22 11:29	05/07/22 05:48	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg	-	04/28/22 11:29	05/07/22 05:48	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg	-	04/28/22 11:29	05/07/22 05:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 05:48	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg	-	04/28/22 11:29	05/07/22 05:48	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 05:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	04/28/22 11:29	05/07/22 05:48	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/28/22 11:29	05/07/22 05:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.8	J	49.9	15.0	mg/Kg	-		05/02/22 11:24	1

Method: 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 *- *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 15:39	1
Diesel Range Organics (Over C10-C28)	33.8	J *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 15:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	04/28/22 11:20	04/30/22 15:39	1
o-Terphenyl	75		70 - 130	04/28/22 11:20	04/30/22 15:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.00	0.858	mg/Kg	-		05/01/22 16:05	1

Client Sample ID: TP-17-S

Lab Sample ID: 890-2244-7

Date Collected: 04/26/22 10:20

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg	-	04/28/22 11:29	05/07/22 06:13	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg	-	04/28/22 11:29	05/07/22 06:13	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg	-	04/28/22 11:29	05/07/22 06:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 06:13	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg	-	04/28/22 11:29	05/07/22 06:13	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	S1+	70 - 130	04/28/22 11:29	05/07/22 06:13	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-17-S

Lab Sample ID: 890-2244-7

Date Collected: 04/26/22 10:20

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	04/28/22 11:29	05/07/22 06:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	35.9	J	50.0	15.0	mg/Kg			05/02/22 11:24	1

Method: 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 *- *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 16:01	1
Diesel Range Organics (Over C10-C28)	35.9	J *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 16:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				04/28/22 11:20	04/30/22 16:01	1
o-Terphenyl	82		70 - 130				04/28/22 11:20	04/30/22 16:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.8		4.97	0.853	mg/Kg			05/01/22 16:14	1

Client Sample ID: TP-17-2

Lab Sample ID: 890-2244-8

Date Collected: 04/26/22 10:25

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg		04/28/22 11:29	05/07/22 06:38	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg		04/28/22 11:29	05/07/22 06:38	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg		04/28/22 11:29	05/07/22 06:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg		04/28/22 11:29	05/07/22 06:38	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg		04/28/22 11:29	05/07/22 06:38	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg		04/28/22 11:29	05/07/22 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130	04/28/22 11:29	05/07/22 06:38	1
1,4-Difluorobenzene (Surr)	84		70 - 130	04/28/22 11:29	05/07/22 06:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.7	J	50.0	15.0	mg/Kg			05/02/22 11:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-17-2

Lab Sample ID: 890-2244-8

Date Collected: 04/26/22 10:25

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 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 *- *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 16:22	1
Diesel Range Organics (Over C10-C28)	30.7	J *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 16:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				04/28/22 11:20	04/30/22 16:22	1
o-Terphenyl	81		70 - 130				04/28/22 11:20	04/30/22 16:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.35	J	4.99	0.857	mg/Kg	-		05/01/22 16:23	1

Client Sample ID: TP-17-3

Lab Sample ID: 890-2244-9

Date Collected: 04/26/22 10:30

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000389	mg/Kg	-	04/28/22 11:29	05/07/22 07:03	1
Toluene	<0.00202	U	0.00202	0.000461	mg/Kg	-	04/28/22 11:29	05/07/22 07:03	1
Ethylbenzene	<0.00202	U	0.00202	0.000571	mg/Kg	-	04/28/22 11:29	05/07/22 07:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	0.00102	mg/Kg	-	04/28/22 11:29	05/07/22 07:03	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg	-	04/28/22 11:29	05/07/22 07:03	1
Xylenes, Total	<0.00404	U	0.00404	0.00102	mg/Kg	-	04/28/22 11:29	05/07/22 07:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130				04/28/22 11:29	05/07/22 07:03	1
1,4-Difluorobenzene (Surr)	81		70 - 130				04/28/22 11:29	05/07/22 07:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	0.00102	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.9	J	49.9	15.0	mg/Kg	-		05/02/22 11:24	1

Method: 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 *- *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 16:43	1
Diesel Range Organics (Over C10-C28)	29.9	J *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 16:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				04/28/22 11:20	04/30/22 16:43	1
o-Terphenyl	76		70 - 130				04/28/22 11:20	04/30/22 16:43	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-17-3

Date Collected: 04/26/22 10:30

Date Received: 04/26/22 17:00

Sample Depth: 3

Lab Sample ID: 890-2244-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.1		4.99	0.857	mg/Kg			05/01/22 16:31	1

Client Sample ID: TP-11-S

Date Collected: 04/26/22 10:45

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Lab Sample ID: 890-2244-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		04/28/22 11:29	05/07/22 07:29	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg		04/28/22 11:29	05/07/22 07:29	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg		04/28/22 11:29	05/07/22 07:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg		04/28/22 11:29	05/07/22 07:29	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg		04/28/22 11:29	05/07/22 07:29	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg		04/28/22 11:29	05/07/22 07:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130				04/28/22 11:29	05/07/22 07:29	1
1,4-Difluorobenzene (Surr)	83		70 - 130				04/28/22 11:29	05/07/22 07:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.9	J	50.0	15.0	mg/Kg			05/02/22 11:24	1

Method: 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 *- *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 17:04	1
Diesel Range Organics (Over C10-C28)	29.9	J *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 17:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				04/28/22 11:20	04/30/22 17:04	1
o-Terphenyl	69	S1-	70 - 130				04/28/22 11:20	04/30/22 17:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290	F1	2.50	0.429	mg/Kg			05/01/22 16:40	5

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-11-2

Lab Sample ID: 890-2244-11

Date Collected: 04/26/22 10:50

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg	-	04/28/22 11:29	05/07/22 09:10	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg	-	04/28/22 11:29	05/07/22 09:10	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg	-	04/28/22 11:29	05/07/22 09:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg	-	04/28/22 11:29	05/07/22 09:10	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg	-	04/28/22 11:29	05/07/22 09:10	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg	-	04/28/22 11:29	05/07/22 09:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	196	S1+	70 - 130	04/28/22 11:29	05/07/22 09:10	1
1,4-Difluorobenzene (Surr)	83		70 - 130	04/28/22 11:29	05/07/22 09:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.8	J	50.0	15.0	mg/Kg	-		05/02/22 11:24	1

Method: 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 *- *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 17:47	1
Diesel Range Organics (Over C10-C28)	30.8	J *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 17:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	04/28/22 11:20	04/30/22 17:47	1
o-Terphenyl	74		70 - 130	04/28/22 11:20	04/30/22 17:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2920		25.1	4.30	mg/Kg	-		05/01/22 17:07	5

Client Sample ID: TP-15-S

Lab Sample ID: 890-2244-12

Date Collected: 04/26/22 11:00

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg	-	04/28/22 11:29	05/07/22 09:36	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg	-	04/28/22 11:29	05/07/22 09:36	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg	-	04/28/22 11:29	05/07/22 09:36	1
m-Xylene & p-Xylene	0.00532		0.00402	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 09:36	1
o-Xylene	0.00517		0.00201	0.000345	mg/Kg	-	04/28/22 11:29	05/07/22 09:36	1
Xylenes, Total	0.0105		0.00402	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 09:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130	04/28/22 11:29	05/07/22 09:36	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-15-S

Lab Sample ID: 890-2244-12

Date Collected: 04/26/22 11:00

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84		70 - 130	04/28/22 11:29	05/07/22 09:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0105		0.00402	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.4	J	50.0	15.0	mg/Kg			05/02/22 11:24	1

Method: 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 *- *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 18:08	1
Diesel Range Organics (Over C10-C28)	26.4	J *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 18:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				04/28/22 11:20	04/30/22 18:08	1
o-Terphenyl	69	S1-	70 - 130				04/28/22 11:20	04/30/22 18:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.0		5.01	0.860	mg/Kg			05/01/22 17:16	1

Client Sample ID: TP-15-2

Lab Sample ID: 890-2244-13

Date Collected: 04/26/22 11:05

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		04/28/22 11:29	05/07/22 10:01	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		04/28/22 11:29	05/07/22 10:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		04/28/22 11:29	05/07/22 10:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		04/28/22 11:29	05/07/22 10:01	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		04/28/22 11:29	05/07/22 10:01	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		04/28/22 11:29	05/07/22 10:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130	04/28/22 11:29	05/07/22 10:01	1
1,4-Difluorobenzene (Surr)	81		70 - 130	04/28/22 11:29	05/07/22 10:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.0	J	49.9	15.0	mg/Kg			05/02/22 11:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-15-2

Lab Sample ID: 890-2244-13

Date Collected: 04/26/22 11:05

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 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 *- *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 18:29	1
Diesel Range Organics (Over C10-C28)	30.0	J *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 18:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/28/22 11:20	04/30/22 18:29	1
o-Terphenyl	83		70 - 130				04/28/22 11:20	04/30/22 18:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		5.05	0.867	mg/Kg	-		05/01/22 17:42	1

Client Sample ID: TP-15-4

Lab Sample ID: 890-2244-14

Date Collected: 04/26/22 11:10

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg	-	04/28/22 11:29	05/07/22 10:26	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg	-	04/28/22 11:29	05/07/22 10:26	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg	-	04/28/22 11:29	05/07/22 10:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg	-	04/28/22 11:29	05/07/22 10:26	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg	-	04/28/22 11:29	05/07/22 10:26	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg	-	04/28/22 11:29	05/07/22 10:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	193	S1+	70 - 130				04/28/22 11:29	05/07/22 10:26	1
1,4-Difluorobenzene (Surr)	83		70 - 130				04/28/22 11:29	05/07/22 10:26	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.0	J	50.0	15.0	mg/Kg	-		05/02/22 11:24	1

Method: 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 *- *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 18:50	1
Diesel Range Organics (Over C10-C28)	26.0	J *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 18:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				04/28/22 11:20	04/30/22 18:50	1
o-Terphenyl	87		70 - 130				04/28/22 11:20	04/30/22 18:50	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-15-4

Lab Sample ID: 890-2244-14

Date Collected: 04/26/22 11:10

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.7		5.02	0.862	mg/Kg			05/01/22 17:51	1

Client Sample ID: TP-13-S

Lab Sample ID: 890-2244-15

Date Collected: 04/26/22 11:20

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		04/28/22 11:29	05/07/22 14:50	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		04/28/22 11:29	05/07/22 14:50	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		04/28/22 11:29	05/07/22 14:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		04/28/22 11:29	05/07/22 14:50	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		04/28/22 11:29	05/07/22 14:50	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		04/28/22 11:29	05/07/22 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130				04/28/22 11:29	05/07/22 14:50	1
1,4-Difluorobenzene (Surr)	77		70 - 130				04/28/22 11:29	05/07/22 14:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.7		50.0	15.0	mg/Kg			05/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	37.9	J *- *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 19:12	1
Diesel Range Organics (Over C10-C28)	25.8	J *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 19:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				04/28/22 11:20	04/30/22 19:12	1
o-Terphenyl	83		70 - 130				04/28/22 11:20	04/30/22 19:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.25		5.00	0.858	mg/Kg			05/01/22 18:00	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-13-2

Lab Sample ID: 890-2244-16

Date Collected: 04/26/22 11:25

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg	-	04/28/22 11:29	05/07/22 15:16	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg	-	04/28/22 11:29	05/07/22 15:16	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg	-	04/28/22 11:29	05/07/22 15:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg	-	04/28/22 11:29	05/07/22 15:16	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg	-	04/28/22 11:29	05/07/22 15:16	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg	-	04/28/22 11:29	05/07/22 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	183	S1+	70 - 130	04/28/22 11:29	05/07/22 15:16	1
1,4-Difluorobenzene (Surr)	83		70 - 130	04/28/22 11:29	05/07/22 15:16	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.7	J	50.0	15.0	mg/Kg	-		05/02/22 11:24	1

Method: 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 *- *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 19:33	1
Diesel Range Organics (Over C10-C28)	25.7	J *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 19:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	04/28/22 11:20	04/30/22 19:33	1
o-Terphenyl	74		70 - 130	04/28/22 11:20	04/30/22 19:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.8		5.00	0.858	mg/Kg	-		05/01/22 18:09	1

Client Sample ID: TP-9-S

Lab Sample ID: 890-2244-17

Date Collected: 04/26/22 12:50

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg	-	04/28/22 11:29	05/07/22 15:42	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg	-	04/28/22 11:29	05/07/22 15:42	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg	-	04/28/22 11:29	05/07/22 15:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 15:42	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg	-	04/28/22 11:29	05/07/22 15:42	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 15:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130	04/28/22 11:29	05/07/22 15:42	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-9-S

Lab Sample ID: 890-2244-17

Date Collected: 04/26/22 12:50

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	04/28/22 11:29	05/07/22 15:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.9	J	50.0	15.0	mg/Kg	-		05/02/22 11:24	1

Method: 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 *- *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 19:53	1
Diesel Range Organics (Over C10-C28)	24.9	J *1	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				04/28/22 11:20	04/30/22 19:53	1
o-Terphenyl	66	S1-	70 - 130				04/28/22 11:20	04/30/22 19:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.775		0.500	0.0858	mg/Kg	-		05/01/22 18:18	1

Client Sample ID: TP-9-2

Lab Sample ID: 890-2244-18

Date Collected: 04/26/22 13:00

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg	-	04/28/22 11:29	05/07/22 16:07	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg	-	04/28/22 11:29	05/07/22 16:07	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg	-	04/28/22 11:29	05/07/22 16:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg	-	04/28/22 11:29	05/07/22 16:07	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg	-	04/28/22 11:29	05/07/22 16:07	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg	-	04/28/22 11:29	05/07/22 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130	04/28/22 11:29	05/07/22 16:07	1
1,4-Difluorobenzene (Surr)	83		70 - 130	04/28/22 11:29	05/07/22 16:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00100	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.4	J	49.9	15.0	mg/Kg	-		05/02/22 11:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-9-2

Date Collected: 04/26/22 13:00

Date Received: 04/26/22 17:00

Sample Depth: 2

Lab Sample ID: 890-2244-18

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.5	J *- *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 20:14	1
Diesel Range Organics (Over C10-C28)	23.9	J *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 20:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/28/22 11:20	04/30/22 20:14	1
o-Terphenyl	90		70 - 130				04/28/22 11:20	04/30/22 20:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.6		4.98	0.855	mg/Kg	-		05/01/22 18:26	1

Client Sample ID: TP-10-S

Date Collected: 04/26/22 13:05

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Lab Sample ID: 890-2244-19

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg	-	04/28/22 11:29	05/07/22 16:33	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg	-	04/28/22 11:29	05/07/22 16:33	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg	-	04/28/22 11:29	05/07/22 16:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 16:33	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg	-	04/28/22 11:29	05/07/22 16:33	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg	-	04/28/22 11:29	05/07/22 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130				04/28/22 11:29	05/07/22 16:33	1
1,4-Difluorobenzene (Surr)	82		70 - 130				04/28/22 11:29	05/07/22 16:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.2	J	49.9	15.0	mg/Kg	-		05/02/22 11:24	1

Method: 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 *- *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 20:35	1
Diesel Range Organics (Over C10-C28)	25.2	J *1	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 20:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	04/28/22 11:20	04/30/22 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				04/28/22 11:20	04/30/22 20:35	1
o-Terphenyl	66	S1-	70 - 130				04/28/22 11:20	04/30/22 20:35	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-10-S

Date Collected: 04/26/22 13:05

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Lab Sample ID: 890-2244-19

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1		5.02	0.862	mg/Kg			04/30/22 23:49	1

Client Sample ID: TP-10-2

Date Collected: 04/26/22 13:10

Date Received: 04/26/22 17:00

Sample Depth: 2

Lab Sample ID: 890-2244-20

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		04/28/22 11:29	05/07/22 16:59	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg		04/28/22 11:29	05/07/22 16:59	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg		04/28/22 11:29	05/07/22 16:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg		04/28/22 11:29	05/07/22 16:59	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg		04/28/22 11:29	05/07/22 16:59	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg		04/28/22 11:29	05/07/22 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	198	S1+	70 - 130				04/28/22 11:29	05/07/22 16:59	1
1,4-Difluorobenzene (Surr)	83		70 - 130				04/28/22 11:29	05/07/22 16:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	27.0	J	50.0	15.0	mg/Kg			05/02/22 11:24	1

Method: 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 *- *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 20:56	1
Diesel Range Organics (Over C10-C28)	27.0	J *1	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 20:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				04/28/22 11:20	04/30/22 20:56	1
o-Terphenyl	76		70 - 130				04/28/22 11:20	04/30/22 20:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.5		4.96	0.851	mg/Kg			05/01/22 18:35	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-24-S

Lab Sample ID: 890-2244-21

Date Collected: 04/26/22 13:25

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	0.000388	mg/Kg	-	05/03/22 14:54	05/05/22 18:22	1
Toluene	<0.00202	U	0.00202	0.000460	mg/Kg	-	05/03/22 14:54	05/05/22 18:22	1
Ethylbenzene	<0.00202	U	0.00202	0.000570	mg/Kg	-	05/03/22 14:54	05/05/22 18:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	0.00102	mg/Kg	-	05/03/22 14:54	05/05/22 18:22	1
o-Xylene	<0.00202	U	0.00202	0.000347	mg/Kg	-	05/03/22 14:54	05/05/22 18:22	1
Xylenes, Total	<0.00403	U	0.00403	0.00102	mg/Kg	-	05/03/22 14:54	05/05/22 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/03/22 14:54	05/05/22 18:22	1
1,4-Difluorobenzene (Surr)	85		70 - 130	05/03/22 14:54	05/05/22 18:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	0.00102	mg/Kg	-		05/05/22 19:52	1

Method: 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	15.0	mg/Kg	-		05/02/22 11:24	1

Method: 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	15.0	mg/Kg	-	04/28/22 11:23	04/30/22 22:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	15.0	mg/Kg	-	04/28/22 11:23	04/30/22 22:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	04/28/22 11:23	04/30/22 22:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	04/28/22 11:23	04/30/22 22:40	1
o-Terphenyl	74		70 - 130	04/28/22 11:23	04/30/22 22:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.26		4.95	0.850	mg/Kg	-		05/01/22 14:40	1

Client Sample ID: TP-24-2

Lab Sample ID: 890-2244-22

Date Collected: 04/26/22 13:30

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg	-	05/03/22 14:54	05/05/22 18:42	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg	-	05/03/22 14:54	05/05/22 18:42	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg	-	05/03/22 14:54	05/05/22 18:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg	-	05/03/22 14:54	05/05/22 18:42	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg	-	05/03/22 14:54	05/05/22 18:42	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg	-	05/03/22 14:54	05/05/22 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/03/22 14:54	05/05/22 18:42	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-24-2

Lab Sample ID: 890-2244-22

Date Collected: 04/26/22 13:30

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	05/03/22 14:54	05/05/22 18:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.7	J	50.0	15.0	mg/Kg			05/02/22 11:24	1

Method: 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	15.0	mg/Kg		04/28/22 11:23	04/30/22 23:42	1
Diesel Range Organics (Over C10-C28)	28.7	J B	50.0	15.0	mg/Kg		04/28/22 11:23	04/30/22 23:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:23	04/30/22 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				04/28/22 11:23	04/30/22 23:42	1
o-Terphenyl	72		70 - 130				04/28/22 11:23	04/30/22 23:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.3		4.98	0.855	mg/Kg			05/01/22 16:41	1

Client Sample ID: TP-8-S

Lab Sample ID: 890-2244-23

Date Collected: 04/26/22 13:35

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		05/03/22 14:54	05/05/22 19:03	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		05/03/22 14:54	05/05/22 19:03	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		05/03/22 14:54	05/05/22 19:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		05/03/22 14:54	05/05/22 19:03	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		05/03/22 14:54	05/05/22 19:03	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		05/03/22 14:54	05/05/22 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/03/22 14:54	05/05/22 19:03	1
1,4-Difluorobenzene (Surr)	85		70 - 130	05/03/22 14:54	05/05/22 19:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.00101	mg/Kg			05/05/22 19:52	1

Method: 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			05/02/22 11:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-8-S

Lab Sample ID: 890-2244-23

Date Collected: 04/26/22 13:35

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.8	J *	50.0	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 00:02	1
Diesel Range Organics (Over C10-C28)	27.2	J B	50.0	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 00:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				04/28/22 11:23	05/01/22 00:02	1
o-Terphenyl	83		70 - 130				04/28/22 11:23	05/01/22 00:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2170		25.0	4.28	mg/Kg	-		05/01/22 16:50	5

Client Sample ID: TP-8-2

Lab Sample ID: 890-2244-24

Date Collected: 04/26/22 13:45

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg	-	05/03/22 14:54	05/05/22 19:23	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg	-	05/03/22 14:54	05/05/22 19:23	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg	-	05/03/22 14:54	05/05/22 19:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg	-	05/03/22 14:54	05/05/22 19:23	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg	-	05/03/22 14:54	05/05/22 19:23	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg	-	05/03/22 14:54	05/05/22 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				05/03/22 14:54	05/05/22 19:23	1
1,4-Difluorobenzene (Surr)	89		70 - 130				05/03/22 14:54	05/05/22 19:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.6		50.0	15.0	mg/Kg	-		05/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	25.5	J *	50.0	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 00:22	1
Diesel Range Organics (Over C10-C28)	29.1	J B	50.0	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 00:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/28/22 11:23	05/01/22 00:22	1
o-Terphenyl	91		70 - 130				04/28/22 11:23	05/01/22 00:22	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-8-2

Lab Sample ID: 890-2244-24

Date Collected: 04/26/22 13:45

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	943		5.00	0.858	mg/Kg			05/01/22 17:00	1

Client Sample ID: TP-14-S

Lab Sample ID: 890-2244-25

Date Collected: 04/26/22 13:50

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000386	mg/Kg		05/03/22 14:54	05/05/22 19:44	1
Toluene	<0.00200	U	0.00200	0.000457	mg/Kg		05/03/22 14:54	05/05/22 19:44	1
Ethylbenzene	<0.00200	U	0.00200	0.000566	mg/Kg		05/03/22 14:54	05/05/22 19:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	0.00101	mg/Kg		05/03/22 14:54	05/05/22 19:44	1
o-Xylene	<0.00200	U	0.00200	0.000345	mg/Kg		05/03/22 14:54	05/05/22 19:44	1
Xylenes, Total	<0.00401	U	0.00401	0.00101	mg/Kg		05/03/22 14:54	05/05/22 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				05/03/22 14:54	05/05/22 19:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130				05/03/22 14:54	05/05/22 19:44	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	27.1	J	49.9	15.0	mg/Kg			05/02/22 11:24	1

Method: 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	15.0	mg/Kg		04/28/22 11:23	05/01/22 00:42	1
Diesel Range Organics (Over C10-C28)	27.1	J B	49.9	15.0	mg/Kg		04/28/22 11:23	05/01/22 00:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		04/28/22 11:23	05/01/22 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				04/28/22 11:23	05/01/22 00:42	1
o-Terphenyl	76		70 - 130				04/28/22 11:23	05/01/22 00:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.8		4.99	0.857	mg/Kg			05/01/22 17:09	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-14-2

Lab Sample ID: 890-2244-26

Date Collected: 04/26/22 13:55

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg	-	05/03/22 14:54	05/05/22 20:04	1
Toluene	<0.00199	U	0.00199	0.000454	mg/Kg	-	05/03/22 14:54	05/05/22 20:04	1
Ethylbenzene	<0.00199	U	0.00199	0.000563	mg/Kg	-	05/03/22 14:54	05/05/22 20:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00101	mg/Kg	-	05/03/22 14:54	05/05/22 20:04	1
o-Xylene	<0.00199	U	0.00199	0.000343	mg/Kg	-	05/03/22 14:54	05/05/22 20:04	1
Xylenes, Total	<0.00398	U	0.00398	0.00101	mg/Kg	-	05/03/22 14:54	05/05/22 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	05/03/22 14:54	05/05/22 20:04	1
1,4-Difluorobenzene (Surr)	83		70 - 130	05/03/22 14:54	05/05/22 20:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00101	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.9	J	49.9	15.0	mg/Kg	-		05/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.4	J *	49.9	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 01:02	1
Diesel Range Organics (Over C10-C28)	21.5	J B	49.9	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 01:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	04/28/22 11:23	05/01/22 01:02	1
o-Terphenyl	94		70 - 130	04/28/22 11:23	05/01/22 01:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.55		5.04	0.865	mg/Kg	-		05/02/22 13:39	1

Client Sample ID: TP-14-4

Lab Sample ID: 890-2244-27

Date Collected: 04/26/22 14:00

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg	-	05/03/22 14:54	05/05/22 20:25	1
Toluene	<0.00201	U	0.00201	0.000458	mg/Kg	-	05/03/22 14:54	05/05/22 20:25	1
Ethylbenzene	<0.00201	U	0.00201	0.000567	mg/Kg	-	05/03/22 14:54	05/05/22 20:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00101	mg/Kg	-	05/03/22 14:54	05/05/22 20:25	1
o-Xylene	<0.00201	U	0.00201	0.000345	mg/Kg	-	05/03/22 14:54	05/05/22 20:25	1
Xylenes, Total	<0.00402	U	0.00402	0.00101	mg/Kg	-	05/03/22 14:54	05/05/22 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	05/03/22 14:54	05/05/22 20:25	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-14-4

Lab Sample ID: 890-2244-27

Date Collected: 04/26/22 14:00

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	05/03/22 14:54	05/05/22 20:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.6	J	50.0	15.0	mg/Kg			05/02/22 11:24	1

Method: 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	15.0	mg/Kg		04/28/22 11:23	05/01/22 01:22	1
Diesel Range Organics (Over C10-C28)	23.6	J B	50.0	15.0	mg/Kg		04/28/22 11:23	05/01/22 01:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:23	05/01/22 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				04/28/22 11:23	05/01/22 01:22	1
o-Terphenyl	79		70 - 130				04/28/22 11:23	05/01/22 01:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.03		4.99	0.857	mg/Kg			05/01/22 17:45	1

Client Sample ID: TP-26-S

Lab Sample ID: 890-2244-28

Date Collected: 04/26/22 14:10

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	0.000383	mg/Kg		05/03/22 14:54	05/05/22 20:45	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg		05/03/22 14:54	05/05/22 20:45	1
Ethylbenzene	<0.00199	U	0.00199	0.000562	mg/Kg		05/03/22 14:54	05/05/22 20:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	0.00100	mg/Kg		05/03/22 14:54	05/05/22 20:45	1
o-Xylene	<0.00199	U	0.00199	0.000342	mg/Kg		05/03/22 14:54	05/05/22 20:45	1
Xylenes, Total	<0.00398	U	0.00398	0.00100	mg/Kg		05/03/22 14:54	05/05/22 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/03/22 14:54	05/05/22 20:45	1
1,4-Difluorobenzene (Surr)	82		70 - 130	05/03/22 14:54	05/05/22 20:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	0.00100	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.6		49.9	15.0	mg/Kg			05/02/22 11:24	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-26-S

Date Collected: 04/26/22 14:10

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Lab Sample ID: 890-2244-28

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	43.8	J *	49.9	15.0	mg/Kg		04/28/22 11:23	05/01/22 01:42	1
Diesel Range Organics (Over C10-C28)	37.8	J B	49.9	15.0	mg/Kg		04/28/22 11:23	05/01/22 01:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		04/28/22 11:23	05/01/22 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				04/28/22 11:23	05/01/22 01:42	1
o-Terphenyl	80		70 - 130				04/28/22 11:23	05/01/22 01:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.20		4.95	0.850	mg/Kg			05/01/22 17:55	1

Client Sample ID: TP-26-2

Date Collected: 04/26/22 14:15

Date Received: 04/26/22 17:00

Sample Depth: 2

Lab Sample ID: 890-2244-29

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	0.000387	mg/Kg		05/03/22 14:54	05/05/22 21:06	1
Toluene	<0.00201	U	0.00201	0.000459	mg/Kg		05/03/22 14:54	05/05/22 21:06	1
Ethylbenzene	<0.00201	U	0.00201	0.000568	mg/Kg		05/03/22 14:54	05/05/22 21:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	0.00102	mg/Kg		05/03/22 14:54	05/05/22 21:06	1
o-Xylene	<0.00201	U	0.00201	0.000346	mg/Kg		05/03/22 14:54	05/05/22 21:06	1
Xylenes, Total	<0.00402	U	0.00402	0.00102	mg/Kg		05/03/22 14:54	05/05/22 21:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				05/03/22 14:54	05/05/22 21:06	1
1,4-Difluorobenzene (Surr)	84		70 - 130				05/03/22 14:54	05/05/22 21:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	0.00102	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.6	J	50.0	15.0	mg/Kg			05/02/22 11:24	1

Method: 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	15.0	mg/Kg		04/28/22 11:23	05/01/22 02:02	1
Diesel Range Organics (Over C10-C28)	23.6	J B	50.0	15.0	mg/Kg		04/28/22 11:23	05/01/22 02:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:23	05/01/22 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				04/28/22 11:23	05/01/22 02:02	1
o-Terphenyl	76		70 - 130				04/28/22 11:23	05/01/22 02:02	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-26-2

Lab Sample ID: 890-2244-29

Date Collected: 04/26/22 14:15

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		4.95	0.850	mg/Kg			05/01/22 18:04	1

Client Sample ID: TP-25-S

Lab Sample ID: 890-2244-30

Date Collected: 04/26/22 14:25

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: SURFACE

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000384	mg/Kg		05/06/22 11:08	05/08/22 19:52	1
Toluene	<0.00200	U	0.00200	0.000455	mg/Kg		05/06/22 11:08	05/08/22 19:52	1
Ethylbenzene	<0.00200	U	0.00200	0.000564	mg/Kg		05/06/22 11:08	05/08/22 19:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	0.00101	mg/Kg		05/06/22 11:08	05/08/22 19:52	1
o-Xylene	<0.00200	U	0.00200	0.000343	mg/Kg		05/06/22 11:08	05/08/22 19:52	1
Xylenes, Total	<0.00399	U	0.00399	0.00101	mg/Kg		05/06/22 11:08	05/08/22 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				05/06/22 11:08	05/08/22 19:52	1
1,4-Difluorobenzene (Surr)	85		70 - 130				05/06/22 11:08	05/08/22 19:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	0.00101	mg/Kg			05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.0	J	49.9	15.0	mg/Kg			05/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.6	J *	49.9	15.0	mg/Kg		04/28/22 11:23	05/01/22 02:23	1
Diesel Range Organics (Over C10-C28)	24.4	J B	49.9	15.0	mg/Kg		04/28/22 11:23	05/01/22 02:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg		04/28/22 11:23	05/01/22 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				04/28/22 11:23	05/01/22 02:23	1
o-Terphenyl	77		70 - 130				04/28/22 11:23	05/01/22 02:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.2		4.97	0.853	mg/Kg			05/01/22 18:13	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-25-2

Lab Sample ID: 890-2244-31

Date Collected: 04/26/22 14:30

Matrix: Solid

Date Received: 04/26/22 17:00

Sample Depth: 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	0.000382	mg/Kg	-	05/06/22 11:08	05/08/22 20:12	1
Toluene	<0.00198	U	0.00198	0.000452	mg/Kg	-	05/06/22 11:08	05/08/22 20:12	1
Ethylbenzene	<0.00198	U	0.00198	0.000561	mg/Kg	-	05/06/22 11:08	05/08/22 20:12	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	0.00100	mg/Kg	-	05/06/22 11:08	05/08/22 20:12	1
o-Xylene	<0.00198	U	0.00198	0.000341	mg/Kg	-	05/06/22 11:08	05/08/22 20:12	1
Xylenes, Total	<0.00397	U	0.00397	0.00100	mg/Kg	-	05/06/22 11:08	05/08/22 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/06/22 11:08	05/08/22 20:12	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/06/22 11:08	05/08/22 20:12	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	0.00100	mg/Kg	-		05/05/22 19:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	130		49.9	15.0	mg/Kg	-		05/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	108	*-	49.9	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 03:03	1
Diesel Range Organics (Over C10-C28)	21.9	J B	49.9	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 03:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	04/28/22 11:23	05/01/22 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	04/28/22 11:23	05/01/22 03:03	1
o-Terphenyl	82		70 - 130	04/28/22 11:23	05/01/22 03:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		4.99	0.857	mg/Kg	-		05/01/22 18:22	1

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-2244-1	TP-16-S	180 S1+	82
890-2244-1 MS	TP-16-S	175 S1+	83
890-2244-1 MSD	TP-16-S	174 S1+	83
890-2244-2	TP-16-2	182 S1+	85
890-2244-3	TP-12-S	181 S1+	84
890-2244-4	TP-12-2	179 S1+	83
890-2244-5	TP-12-4	191 S1+	84
890-2244-6	TP-12-5	70	85
890-2244-7	TP-17-S	172 S1+	83
890-2244-8	TP-17-2	175 S1+	84
890-2244-9	TP-17-3	178 S1+	81
890-2244-10	TP-11-S	182 S1+	83
890-2244-11	TP-11-2	196 S1+	83
890-2244-12	TP-15-S	182 S1+	84
890-2244-13	TP-15-2	180 S1+	81
890-2244-14	TP-15-4	193 S1+	83
890-2244-15	TP-13-S	179 S1+	77
890-2244-16	TP-13-2	183 S1+	83
890-2244-17	TP-9-S	197 S1+	83
890-2244-18	TP-9-2	180 S1+	83
890-2244-19	TP-10-S	182 S1+	82
890-2244-20	TP-10-2	198 S1+	83
890-2244-21	TP-24-S	104	85
890-2244-22	TP-24-2	109	91
890-2244-23	TP-8-S	103	85
890-2244-24	TP-8-2	111	89
890-2244-25	TP-14-S	111	91
890-2244-26	TP-14-2	88	83
890-2244-27	TP-14-4	112	91
890-2244-28	TP-26-S	98	82
890-2244-29	TP-26-2	99	84
890-2244-30	TP-25-S	96	85
890-2244-31	TP-25-2	107	93
LCS 880-24407/1-A	Lab Control Sample	173 S1+	88
LCS 880-24745/1-A	Lab Control Sample	113	95
LCS 880-24961/1-A	Lab Control Sample	114	93
LCSD 880-24407/2-A	Lab Control Sample Dup	165 S1+	87
LCSD 880-24745/2-A	Lab Control Sample Dup	116	94
LCSD 880-24961/2-A	Lab Control Sample Dup	110	92
MB 880-24407/5-A	Method Blank	119	74
MB 880-24745/5-A	Method Blank	102	88
MB 880-24825/5-A	Method Blank	113	77
MB 880-24961/5-A	Method Blank	99	88
MB 880-24982/5-A	Method Blank	102	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

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)
890-2244-1	TP-16-S	71	71
890-2244-1 MS	TP-16-S	90	75
890-2244-1 MSD	TP-16-S	89	73
890-2244-2	TP-16-2	79	80
890-2244-3	TP-12-S	84	83
890-2244-4	TP-12-2	80	79
890-2244-5	TP-12-4	96	88
890-2244-6	TP-12-5	83	75
890-2244-7	TP-17-S	87	82
890-2244-8	TP-17-2	87	81
890-2244-9	TP-17-3	76	76
890-2244-10	TP-11-S	72	69 S1-
890-2244-11	TP-11-2	74	74
890-2244-12	TP-15-S	75	69 S1-
890-2244-13	TP-15-2	85	83
890-2244-14	TP-15-4	89	87
890-2244-15	TP-13-S	87	83
890-2244-16	TP-13-2	83	74
890-2244-17	TP-9-S	70	66 S1-
890-2244-18	TP-9-2	91	90
890-2244-19	TP-10-S	70	66 S1-
890-2244-20	TP-10-2	80	76
890-2244-21	TP-24-S	78	74
890-2244-21 MS	TP-24-S	82	62 S1-
890-2244-21 MSD	TP-24-S	73	57 S1-
890-2244-22	TP-24-2	75	72
890-2244-23	TP-8-S	86	83
890-2244-24	TP-8-2	95	91
890-2244-25	TP-14-S	81	76
890-2244-26	TP-14-2	93	94
890-2244-27	TP-14-4	85	79
890-2244-28	TP-26-S	83	80
890-2244-29	TP-26-2	78	76
890-2244-30	TP-25-S	78	77
890-2244-31	TP-25-2	82	82
LCS 880-24403/2-A	Lab Control Sample	111	106
LCS 880-24405/2-A	Lab Control Sample	91	79
LCSD 880-24403/3-A	Lab Control Sample Dup	97	91
LCSD 880-24405/3-A	Lab Control Sample Dup	104	100
MB 880-24403/1-A	Method Blank	78	82
MB 880-24405/1-A	Method Blank	89	87

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-24407/5-A

Matrix: Solid

Analysis Batch: 24955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24407

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		04/28/22 11:29	05/07/22 03:15	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		04/28/22 11:29	05/07/22 03:15	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		04/28/22 11:29	05/07/22 03:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		04/28/22 11:29	05/07/22 03:15	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		04/28/22 11:29	05/07/22 03:15	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		04/28/22 11:29	05/07/22 03:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	04/28/22 11:29	05/07/22 03:15	1
1,4-Difluorobenzene (Surr)	74		70 - 130	04/28/22 11:29	05/07/22 03:15	1

Lab Sample ID: LCS 880-24407/1-A

Matrix: Solid

Analysis Batch: 24955

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08808		mg/Kg		88	70 - 130
Toluene	0.100	0.08188		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.09179		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1836		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09236		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	173	S1+	70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-24407/2-A

Matrix: Solid

Analysis Batch: 24955

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24407

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1032		mg/Kg		103	70 - 130	16	35
Toluene	0.100	0.09633		mg/Kg		96	70 - 130	16	35
Ethylbenzene	0.100	0.1057		mg/Kg		106	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.2113		mg/Kg		106	70 - 130	14	35
o-Xylene	0.100	0.1057		mg/Kg		106	70 - 130	13	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	165	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-2244-1 MS

Matrix: Solid

Analysis Batch: 24955

Client Sample ID: TP-16-S

Prep Type: Total/NA

Prep Batch: 24407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1 F2	0.0996	0.01253	F1	mg/Kg		13	70 - 130
Toluene	<0.00201	U F1 F2	0.0996	0.01380	F1	mg/Kg		14	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

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

Lab Sample ID: 890-2244-1 MS

Matrix: Solid

Analysis Batch: 24955

Client Sample ID: TP-16-S

Prep Type: Total/NA

Prep Batch: 24407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.000812	J F1	0.0996	0.02435	F1	mg/Kg		24	70 - 130
m-Xylene & p-Xylene	0.00898	F1	0.199	0.05543	F1	mg/Kg		23	70 - 130
o-Xylene	0.00534	F1	0.0996	0.03098	F1	mg/Kg		26	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 890-2244-1 MSD

Matrix: Solid

Analysis Batch: 24955

Client Sample ID: TP-16-S

Prep Type: Total/NA

Prep Batch: 24407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U F1 F2	0.0998	0.01989	F1 F2	mg/Kg		20	70 - 130	45	35
Toluene	<0.00201	U F1 F2	0.0998	0.02120	F1 F2	mg/Kg		21	70 - 130	42	35
Ethylbenzene	0.000812	J F1	0.0998	0.03214	F1	mg/Kg		31	70 - 130	28	35
m-Xylene & p-Xylene	0.00898	F1	0.200	0.07278	F1	mg/Kg		32	70 - 130	27	35
o-Xylene	0.00534	F1	0.0998	0.04004	F1	mg/Kg		35	70 - 130	26	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: MB 880-24745/5-A

Matrix: Solid

Analysis Batch: 24762

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24745

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		05/03/22 14:54	05/05/22 12:56	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		05/03/22 14:54	05/05/22 12:56	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		05/03/22 14:54	05/05/22 12:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		05/03/22 14:54	05/05/22 12:56	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		05/03/22 14:54	05/05/22 12:56	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		05/03/22 14:54	05/05/22 12:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/03/22 14:54	05/05/22 12:56	1
1,4-Difluorobenzene (Surr)	88		70 - 130	05/03/22 14:54	05/05/22 12:56	1

Lab Sample ID: LCS 880-24745/1-A

Matrix: Solid

Analysis Batch: 24762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09131		mg/Kg		91	70 - 130
Toluene	0.100	0.09653		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1039		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2134		mg/Kg		107	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

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

Lab Sample ID: LCS 880-24745/1-A

Matrix: Solid

Analysis Batch: 24762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1088		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-24745/2-A

Matrix: Solid

Analysis Batch: 24762

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24745

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08223		mg/Kg		82	70 - 130	10	35
Toluene	0.100	0.08866		mg/Kg		89	70 - 130	8	35
Ethylbenzene	0.100	0.09544		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1966		mg/Kg		98	70 - 130	8	35
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-24825/5-A

Matrix: Solid

Analysis Batch: 24955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		05/04/22 12:55	05/06/22 14:02	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		05/04/22 12:55	05/06/22 14:02	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		05/04/22 12:55	05/06/22 14:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		05/04/22 12:55	05/06/22 14:02	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		05/04/22 12:55	05/06/22 14:02	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		05/04/22 12:55	05/06/22 14:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	05/04/22 12:55	05/06/22 14:02	1
1,4-Difluorobenzene (Surr)	77		70 - 130	05/04/22 12:55	05/06/22 14:02	1

Lab Sample ID: MB 880-24961/5-A

Matrix: Solid

Analysis Batch: 25025

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24961

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		05/06/22 11:08	05/08/22 11:55	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		05/06/22 11:08	05/08/22 11:55	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		05/06/22 11:08	05/08/22 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		05/06/22 11:08	05/08/22 11:55	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		05/06/22 11:08	05/08/22 11:55	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		05/06/22 11:08	05/08/22 11:55	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/06/22 11:08	05/08/22 11:55	1
1,4-Difluorobenzene (Surr)	88		70 - 130	05/06/22 11:08	05/08/22 11:55	1

Lab Sample ID: LCS 880-24961/1-A

Matrix: Solid

Analysis Batch: 25025

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24961

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07553		mg/Kg		76	70 - 130
Toluene	0.100	0.08528		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.09112		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1867		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09690		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-24961/2-A

Matrix: Solid

Analysis Batch: 25025

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24961

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08090		mg/Kg		81	70 - 130	7	35
Toluene	0.100	0.08911		mg/Kg		89	70 - 130	4	35
Ethylbenzene	0.100	0.09574		mg/Kg		96	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1957		mg/Kg		98	70 - 130	5	35
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-24982/5-A

Matrix: Solid

Analysis Batch: 25025

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		05/06/22 12:52	05/08/22 01:23	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		05/06/22 12:52	05/08/22 01:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		05/06/22 12:52	05/08/22 01:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		05/06/22 12:52	05/08/22 01:23	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		05/06/22 12:52	05/08/22 01:23	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		05/06/22 12:52	05/08/22 01:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/06/22 12:52	05/08/22 01:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/06/22 12:52	05/08/22 01:23	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

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

Lab Sample ID: MB 880-24403/1-A

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 12:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 12:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:20	04/30/22 12:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	04/28/22 11:20	04/30/22 12:03	1
o-Terphenyl	82		70 - 130	04/28/22 11:20	04/30/22 12:03	1

Lab Sample ID: LCS 880-24403/2-A

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	833.7		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-24403/3-A

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24403

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	556.2	*- *1	mg/Kg		56	70 - 130	40	20
Diesel Range Organics (Over C10-C28)	1000	801.3	*1	mg/Kg		80	70 - 130	27	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-2244-1 MS

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: TP-16-S

Prep Type: Total/NA

Prep Batch: 24403

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *- *1	999	757.1		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	37.0	J *1	999	861.5		mg/Kg		83	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

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

Lab Sample ID: 890-2244-1 MS

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: TP-16-S

Prep Type: Total/NA

Prep Batch: 24403

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 890-2244-1 MSD

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: TP-16-S

Prep Type: Total/NA

Prep Batch: 24403

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	<49.9	U *- *1	999	764.7		mg/Kg		77	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	37.0	J *1	999	841.0		mg/Kg		80	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: MB 880-24405/1-A

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:23	04/30/22 21:38	1
Diesel Range Organics (Over C10-C28)	21.24	J	50.0	15.0	mg/Kg		04/28/22 11:23	04/30/22 21:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		04/28/22 11:23	04/30/22 21:38	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	89		70 - 130	04/28/22 11:23	04/30/22 21:38	1
o-Terphenyl	87		70 - 130	04/28/22 11:23	04/30/22 21:38	1

Lab Sample ID: LCS 880-24405/2-A

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	687.7	*-	mg/Kg		69	70 - 130
Diesel Range Organics (Over C10-C28)	1000	839.1		mg/Kg		84	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	79		70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

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

Lab Sample ID: LCSD 880-24405/3-A

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24405

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	598.1	*-	mg/Kg		60	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	903.2		mg/Kg		90	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: 890-2244-21 MS

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: TP-24-S

Prep Type: Total/NA

Prep Batch: 24405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	999	771.3		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	773.5		mg/Kg		77	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	62	S1-	70 - 130								

Lab Sample ID: 890-2244-21 MSD

Matrix: Solid

Analysis Batch: 24563

Client Sample ID: TP-24-S

Prep Type: Total/NA

Prep Batch: 24405

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	<49.9	U *-	999	880.9		mg/Kg		88	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	711.8		mg/Kg		71	70 - 130	8	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	73		70 - 130								
o-Terphenyl	57	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24339/1-A

Matrix: Solid

Analysis Batch: 24574

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	0.858	mg/Kg			04/30/22 19:59	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-24339/2-A

Matrix: Solid

Analysis Batch: 24574

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.6		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-24339/3-A

Matrix: Solid

Analysis Batch: 24574

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	236.5		mg/Kg		95	90 - 110	0	20

Lab Sample ID: MB 880-24408/1-A

Matrix: Solid

Analysis Batch: 24590

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	0.858	mg/Kg			05/01/22 14:10	1

Lab Sample ID: LCS 880-24408/2-A

Matrix: Solid

Analysis Batch: 24590

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.3		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-24408/3-A

Matrix: Solid

Analysis Batch: 24590

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	234.7		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 890-2244-10 MS

Matrix: Solid

Analysis Batch: 24590

Client Sample ID: TP-11-S

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	290	F1	1250	4179	F1	mg/Kg		311	90 - 110

Lab Sample ID: 890-2244-10 MSD

Matrix: Solid

Analysis Batch: 24590

Client Sample ID: TP-11-S

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	290	F1	1250	4202	F1	mg/Kg		313	90 - 110	1	20

Lab Sample ID: MB 880-24410/1-A

Matrix: Solid

Analysis Batch: 24592

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	0.858	mg/Kg			05/01/22 14:12	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-24410/2-A

Matrix: Solid

Analysis Batch: 24592

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	232.0		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-24410/3-A

Matrix: Solid

Analysis Batch: 24592

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	225.8		mg/Kg		90	90 - 110	3	20

Lab Sample ID: 890-2244-21 MS

Matrix: Solid

Analysis Batch: 24592

Client Sample ID: TP-24-S

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.26		248	256.3		mg/Kg		101	90 - 110

Lab Sample ID: 890-2244-21 MSD

Matrix: Solid

Analysis Batch: 24592

Client Sample ID: TP-24-S

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.26		248	247.6		mg/Kg		98	90 - 110	3	20

Lab Sample ID: 890-2244-31 MS

Matrix: Solid

Analysis Batch: 24592

Client Sample ID: TP-25-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11.4		250	277.4		mg/Kg		107	90 - 110

Lab Sample ID: 890-2244-31 MSD

Matrix: Solid

Analysis Batch: 24592

Client Sample ID: TP-25-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.4		250	258.1		mg/Kg		99	90 - 110	7	20

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

GC VOA

Prep Batch: 24407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-1	TP-16-S	Total/NA	Solid	5035	
890-2244-2	TP-16-2	Total/NA	Solid	5035	
890-2244-3	TP-12-S	Total/NA	Solid	5035	
890-2244-4	TP-12-2	Total/NA	Solid	5035	
890-2244-5	TP-12-4	Total/NA	Solid	5035	
890-2244-6	TP-12-5	Total/NA	Solid	5035	
890-2244-7	TP-17-S	Total/NA	Solid	5035	
890-2244-8	TP-17-2	Total/NA	Solid	5035	
890-2244-9	TP-17-3	Total/NA	Solid	5035	
890-2244-10	TP-11-S	Total/NA	Solid	5035	
890-2244-11	TP-11-2	Total/NA	Solid	5035	
890-2244-12	TP-15-S	Total/NA	Solid	5035	
890-2244-13	TP-15-2	Total/NA	Solid	5035	
890-2244-14	TP-15-4	Total/NA	Solid	5035	
890-2244-15	TP-13-S	Total/NA	Solid	5035	
890-2244-16	TP-13-2	Total/NA	Solid	5035	
890-2244-17	TP-9-S	Total/NA	Solid	5035	
890-2244-18	TP-9-2	Total/NA	Solid	5035	
890-2244-19	TP-10-S	Total/NA	Solid	5035	
890-2244-20	TP-10-2	Total/NA	Solid	5035	
MB 880-24407/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24407/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24407/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2244-1 MS	TP-16-S	Total/NA	Solid	5035	
890-2244-1 MSD	TP-16-S	Total/NA	Solid	5035	

Prep Batch: 24745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-21	TP-24-S	Total/NA	Solid	5035	
890-2244-22	TP-24-2	Total/NA	Solid	5035	
890-2244-23	TP-8-S	Total/NA	Solid	5035	
890-2244-24	TP-8-2	Total/NA	Solid	5035	
890-2244-25	TP-14-S	Total/NA	Solid	5035	
890-2244-26	TP-14-2	Total/NA	Solid	5035	
890-2244-27	TP-14-4	Total/NA	Solid	5035	
890-2244-28	TP-26-S	Total/NA	Solid	5035	
890-2244-29	TP-26-2	Total/NA	Solid	5035	
MB 880-24745/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24745/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24745/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 24762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-21	TP-24-S	Total/NA	Solid	8021B	24745
890-2244-22	TP-24-2	Total/NA	Solid	8021B	24745
890-2244-23	TP-8-S	Total/NA	Solid	8021B	24745
890-2244-24	TP-8-2	Total/NA	Solid	8021B	24745
890-2244-25	TP-14-S	Total/NA	Solid	8021B	24745
890-2244-26	TP-14-2	Total/NA	Solid	8021B	24745
890-2244-27	TP-14-4	Total/NA	Solid	8021B	24745
890-2244-28	TP-26-S	Total/NA	Solid	8021B	24745

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

GC VOA (Continued)

Analysis Batch: 24762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-29	TP-26-2	Total/NA	Solid	8021B	24745
MB 880-24745/5-A	Method Blank	Total/NA	Solid	8021B	24745
LCS 880-24745/1-A	Lab Control Sample	Total/NA	Solid	8021B	24745
LCSD 880-24745/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24745

Prep Batch: 24825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-24825/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 24937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-1	TP-16-S	Total/NA	Solid	Total BTEX	
890-2244-2	TP-16-2	Total/NA	Solid	Total BTEX	
890-2244-3	TP-12-S	Total/NA	Solid	Total BTEX	
890-2244-4	TP-12-2	Total/NA	Solid	Total BTEX	
890-2244-5	TP-12-4	Total/NA	Solid	Total BTEX	
890-2244-6	TP-12-5	Total/NA	Solid	Total BTEX	
890-2244-7	TP-17-S	Total/NA	Solid	Total BTEX	
890-2244-8	TP-17-2	Total/NA	Solid	Total BTEX	
890-2244-9	TP-17-3	Total/NA	Solid	Total BTEX	
890-2244-10	TP-11-S	Total/NA	Solid	Total BTEX	
890-2244-11	TP-11-2	Total/NA	Solid	Total BTEX	
890-2244-12	TP-15-S	Total/NA	Solid	Total BTEX	
890-2244-13	TP-15-2	Total/NA	Solid	Total BTEX	
890-2244-14	TP-15-4	Total/NA	Solid	Total BTEX	
890-2244-15	TP-13-S	Total/NA	Solid	Total BTEX	
890-2244-16	TP-13-2	Total/NA	Solid	Total BTEX	
890-2244-17	TP-9-S	Total/NA	Solid	Total BTEX	
890-2244-18	TP-9-2	Total/NA	Solid	Total BTEX	
890-2244-19	TP-10-S	Total/NA	Solid	Total BTEX	
890-2244-20	TP-10-2	Total/NA	Solid	Total BTEX	
890-2244-21	TP-24-S	Total/NA	Solid	Total BTEX	
890-2244-22	TP-24-2	Total/NA	Solid	Total BTEX	
890-2244-23	TP-8-S	Total/NA	Solid	Total BTEX	
890-2244-24	TP-8-2	Total/NA	Solid	Total BTEX	
890-2244-25	TP-14-S	Total/NA	Solid	Total BTEX	
890-2244-26	TP-14-2	Total/NA	Solid	Total BTEX	
890-2244-27	TP-14-4	Total/NA	Solid	Total BTEX	
890-2244-28	TP-26-S	Total/NA	Solid	Total BTEX	
890-2244-29	TP-26-2	Total/NA	Solid	Total BTEX	
890-2244-30	TP-25-S	Total/NA	Solid	Total BTEX	
890-2244-31	TP-25-2	Total/NA	Solid	Total BTEX	

Analysis Batch: 24955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-1	TP-16-S	Total/NA	Solid	8021B	24407
890-2244-2	TP-16-2	Total/NA	Solid	8021B	24407
890-2244-3	TP-12-S	Total/NA	Solid	8021B	24407
890-2244-4	TP-12-2	Total/NA	Solid	8021B	24407
890-2244-5	TP-12-4	Total/NA	Solid	8021B	24407
890-2244-6	TP-12-5	Total/NA	Solid	8021B	24407

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

GC VOA (Continued)

Analysis Batch: 24955 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-7	TP-17-S	Total/NA	Solid	8021B	24407
890-2244-8	TP-17-2	Total/NA	Solid	8021B	24407
890-2244-9	TP-17-3	Total/NA	Solid	8021B	24407
890-2244-10	TP-11-S	Total/NA	Solid	8021B	24407
890-2244-11	TP-11-2	Total/NA	Solid	8021B	24407
890-2244-12	TP-15-S	Total/NA	Solid	8021B	24407
890-2244-13	TP-15-2	Total/NA	Solid	8021B	24407
890-2244-14	TP-15-4	Total/NA	Solid	8021B	24407
890-2244-15	TP-13-S	Total/NA	Solid	8021B	24407
890-2244-16	TP-13-2	Total/NA	Solid	8021B	24407
890-2244-17	TP-9-S	Total/NA	Solid	8021B	24407
890-2244-18	TP-9-2	Total/NA	Solid	8021B	24407
890-2244-19	TP-10-S	Total/NA	Solid	8021B	24407
890-2244-20	TP-10-2	Total/NA	Solid	8021B	24407
MB 880-24407/5-A	Method Blank	Total/NA	Solid	8021B	24407
MB 880-24825/5-A	Method Blank	Total/NA	Solid	8021B	24825
LCS 880-24407/1-A	Lab Control Sample	Total/NA	Solid	8021B	24407
LCSD 880-24407/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24407
890-2244-1 MS	TP-16-S	Total/NA	Solid	8021B	24407
890-2244-1 MSD	TP-16-S	Total/NA	Solid	8021B	24407

Prep Batch: 24961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-30	TP-25-S	Total/NA	Solid	5035	
890-2244-31	TP-25-2	Total/NA	Solid	5035	
MB 880-24961/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-24961/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-24961/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 24982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-24982/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 25025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-30	TP-25-S	Total/NA	Solid	8021B	24961
890-2244-31	TP-25-2	Total/NA	Solid	8021B	24961
MB 880-24961/5-A	Method Blank	Total/NA	Solid	8021B	24961
MB 880-24982/5-A	Method Blank	Total/NA	Solid	8021B	24982
LCS 880-24961/1-A	Lab Control Sample	Total/NA	Solid	8021B	24961
LCSD 880-24961/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	24961

GC Semi VOA

Prep Batch: 24403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-1	TP-16-S	Total/NA	Solid	8015NM Prep	
890-2244-2	TP-16-2	Total/NA	Solid	8015NM Prep	
890-2244-3	TP-12-S	Total/NA	Solid	8015NM Prep	
890-2244-4	TP-12-2	Total/NA	Solid	8015NM Prep	
890-2244-5	TP-12-4	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

GC Semi VOA (Continued)

Prep Batch: 24403 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-6	TP-12-5	Total/NA	Solid	8015NM Prep	
890-2244-7	TP-17-S	Total/NA	Solid	8015NM Prep	
890-2244-8	TP-17-2	Total/NA	Solid	8015NM Prep	
890-2244-9	TP-17-3	Total/NA	Solid	8015NM Prep	
890-2244-10	TP-11-S	Total/NA	Solid	8015NM Prep	
890-2244-11	TP-11-2	Total/NA	Solid	8015NM Prep	
890-2244-12	TP-15-S	Total/NA	Solid	8015NM Prep	
890-2244-13	TP-15-2	Total/NA	Solid	8015NM Prep	
890-2244-14	TP-15-4	Total/NA	Solid	8015NM Prep	
890-2244-15	TP-13-S	Total/NA	Solid	8015NM Prep	
890-2244-16	TP-13-2	Total/NA	Solid	8015NM Prep	
890-2244-17	TP-9-S	Total/NA	Solid	8015NM Prep	
890-2244-18	TP-9-2	Total/NA	Solid	8015NM Prep	
890-2244-19	TP-10-S	Total/NA	Solid	8015NM Prep	
890-2244-20	TP-10-2	Total/NA	Solid	8015NM Prep	
MB 880-24403/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24403/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24403/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2244-1 MS	TP-16-S	Total/NA	Solid	8015NM Prep	
890-2244-1 MSD	TP-16-S	Total/NA	Solid	8015NM Prep	

Prep Batch: 24405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-21	TP-24-S	Total/NA	Solid	8015NM Prep	
890-2244-22	TP-24-2	Total/NA	Solid	8015NM Prep	
890-2244-23	TP-8-S	Total/NA	Solid	8015NM Prep	
890-2244-24	TP-8-2	Total/NA	Solid	8015NM Prep	
890-2244-25	TP-14-S	Total/NA	Solid	8015NM Prep	
890-2244-26	TP-14-2	Total/NA	Solid	8015NM Prep	
890-2244-27	TP-14-4	Total/NA	Solid	8015NM Prep	
890-2244-28	TP-26-S	Total/NA	Solid	8015NM Prep	
890-2244-29	TP-26-2	Total/NA	Solid	8015NM Prep	
890-2244-30	TP-25-S	Total/NA	Solid	8015NM Prep	
890-2244-31	TP-25-2	Total/NA	Solid	8015NM Prep	
MB 880-24405/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24405/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24405/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2244-21 MS	TP-24-S	Total/NA	Solid	8015NM Prep	
890-2244-21 MSD	TP-24-S	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-1	TP-16-S	Total/NA	Solid	8015B NM	24403
890-2244-2	TP-16-2	Total/NA	Solid	8015B NM	24403
890-2244-3	TP-12-S	Total/NA	Solid	8015B NM	24403
890-2244-4	TP-12-2	Total/NA	Solid	8015B NM	24403
890-2244-5	TP-12-4	Total/NA	Solid	8015B NM	24403
890-2244-6	TP-12-5	Total/NA	Solid	8015B NM	24403
890-2244-7	TP-17-S	Total/NA	Solid	8015B NM	24403
890-2244-8	TP-17-2	Total/NA	Solid	8015B NM	24403
890-2244-9	TP-17-3	Total/NA	Solid	8015B NM	24403

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

GC Semi VOA (Continued)

Analysis Batch: 24563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-10	TP-11-S	Total/NA	Solid	8015B NM	24403
890-2244-11	TP-11-2	Total/NA	Solid	8015B NM	24403
890-2244-12	TP-15-S	Total/NA	Solid	8015B NM	24403
890-2244-13	TP-15-2	Total/NA	Solid	8015B NM	24403
890-2244-14	TP-15-4	Total/NA	Solid	8015B NM	24403
890-2244-15	TP-13-S	Total/NA	Solid	8015B NM	24403
890-2244-16	TP-13-2	Total/NA	Solid	8015B NM	24403
890-2244-17	TP-9-S	Total/NA	Solid	8015B NM	24403
890-2244-18	TP-9-2	Total/NA	Solid	8015B NM	24403
890-2244-19	TP-10-S	Total/NA	Solid	8015B NM	24403
890-2244-20	TP-10-2	Total/NA	Solid	8015B NM	24403
890-2244-21	TP-24-S	Total/NA	Solid	8015B NM	24405
890-2244-22	TP-24-2	Total/NA	Solid	8015B NM	24405
890-2244-23	TP-8-S	Total/NA	Solid	8015B NM	24405
890-2244-24	TP-8-2	Total/NA	Solid	8015B NM	24405
890-2244-25	TP-14-S	Total/NA	Solid	8015B NM	24405
890-2244-26	TP-14-2	Total/NA	Solid	8015B NM	24405
890-2244-27	TP-14-4	Total/NA	Solid	8015B NM	24405
890-2244-28	TP-26-S	Total/NA	Solid	8015B NM	24405
890-2244-29	TP-26-2	Total/NA	Solid	8015B NM	24405
890-2244-30	TP-25-S	Total/NA	Solid	8015B NM	24405
890-2244-31	TP-25-2	Total/NA	Solid	8015B NM	24405
MB 880-24403/1-A	Method Blank	Total/NA	Solid	8015B NM	24403
MB 880-24405/1-A	Method Blank	Total/NA	Solid	8015B NM	24405
LCS 880-24403/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24403
LCS 880-24405/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24405
LCSD 880-24403/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24403
LCSD 880-24405/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24405
890-2244-1 MS	TP-16-S	Total/NA	Solid	8015B NM	24403
890-2244-1 MSD	TP-16-S	Total/NA	Solid	8015B NM	24403
890-2244-21 MS	TP-24-S	Total/NA	Solid	8015B NM	24405
890-2244-21 MSD	TP-24-S	Total/NA	Solid	8015B NM	24405

Analysis Batch: 24638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-1	TP-16-S	Total/NA	Solid	8015 NM	
890-2244-2	TP-16-2	Total/NA	Solid	8015 NM	
890-2244-3	TP-12-S	Total/NA	Solid	8015 NM	
890-2244-4	TP-12-2	Total/NA	Solid	8015 NM	
890-2244-5	TP-12-4	Total/NA	Solid	8015 NM	
890-2244-6	TP-12-5	Total/NA	Solid	8015 NM	
890-2244-7	TP-17-S	Total/NA	Solid	8015 NM	
890-2244-8	TP-17-2	Total/NA	Solid	8015 NM	
890-2244-9	TP-17-3	Total/NA	Solid	8015 NM	
890-2244-10	TP-11-S	Total/NA	Solid	8015 NM	
890-2244-11	TP-11-2	Total/NA	Solid	8015 NM	
890-2244-12	TP-15-S	Total/NA	Solid	8015 NM	
890-2244-13	TP-15-2	Total/NA	Solid	8015 NM	
890-2244-14	TP-15-4	Total/NA	Solid	8015 NM	
890-2244-15	TP-13-S	Total/NA	Solid	8015 NM	
890-2244-16	TP-13-2	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

GC Semi VOA (Continued)

Analysis Batch: 24638 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-17	TP-9-S	Total/NA	Solid	8015 NM	
890-2244-18	TP-9-2	Total/NA	Solid	8015 NM	
890-2244-19	TP-10-S	Total/NA	Solid	8015 NM	
890-2244-20	TP-10-2	Total/NA	Solid	8015 NM	
890-2244-21	TP-24-S	Total/NA	Solid	8015 NM	
890-2244-22	TP-24-2	Total/NA	Solid	8015 NM	
890-2244-23	TP-8-S	Total/NA	Solid	8015 NM	
890-2244-24	TP-8-2	Total/NA	Solid	8015 NM	
890-2244-25	TP-14-S	Total/NA	Solid	8015 NM	
890-2244-26	TP-14-2	Total/NA	Solid	8015 NM	
890-2244-27	TP-14-4	Total/NA	Solid	8015 NM	
890-2244-28	TP-26-S	Total/NA	Solid	8015 NM	
890-2244-29	TP-26-2	Total/NA	Solid	8015 NM	
890-2244-30	TP-25-S	Total/NA	Solid	8015 NM	
890-2244-31	TP-25-2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-19	TP-10-S	Soluble	Solid	DI Leach	
MB 880-24339/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24339/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24339/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 24408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-1	TP-16-S	Soluble	Solid	DI Leach	
890-2244-2	TP-16-2	Soluble	Solid	DI Leach	
890-2244-3	TP-12-S	Soluble	Solid	DI Leach	
890-2244-4	TP-12-2	Soluble	Solid	DI Leach	
890-2244-5	TP-12-4	Soluble	Solid	DI Leach	
890-2244-6	TP-12-5	Soluble	Solid	DI Leach	
890-2244-7	TP-17-S	Soluble	Solid	DI Leach	
890-2244-8	TP-17-2	Soluble	Solid	DI Leach	
890-2244-9	TP-17-3	Soluble	Solid	DI Leach	
890-2244-10	TP-11-S	Soluble	Solid	DI Leach	
890-2244-11	TP-11-2	Soluble	Solid	DI Leach	
890-2244-12	TP-15-S	Soluble	Solid	DI Leach	
890-2244-13	TP-15-2	Soluble	Solid	DI Leach	
890-2244-14	TP-15-4	Soluble	Solid	DI Leach	
890-2244-15	TP-13-S	Soluble	Solid	DI Leach	
890-2244-16	TP-13-2	Soluble	Solid	DI Leach	
890-2244-17	TP-9-S	Soluble	Solid	DI Leach	
890-2244-18	TP-9-2	Soluble	Solid	DI Leach	
890-2244-20	TP-10-2	Soluble	Solid	DI Leach	
MB 880-24408/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24408/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24408/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2244-10 MS	TP-11-S	Soluble	Solid	DI Leach	
890-2244-10 MSD	TP-11-S	Soluble	Solid	DI Leach	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

HPLC/IC

Leach Batch: 24410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-21	TP-24-S	Soluble	Solid	DI Leach	
890-2244-22	TP-24-2	Soluble	Solid	DI Leach	
890-2244-23	TP-8-S	Soluble	Solid	DI Leach	
890-2244-24	TP-8-2	Soluble	Solid	DI Leach	
890-2244-25	TP-14-S	Soluble	Solid	DI Leach	
890-2244-26	TP-14-2	Soluble	Solid	DI Leach	
890-2244-27	TP-14-4	Soluble	Solid	DI Leach	
890-2244-28	TP-26-S	Soluble	Solid	DI Leach	
890-2244-29	TP-26-2	Soluble	Solid	DI Leach	
890-2244-30	TP-25-S	Soluble	Solid	DI Leach	
890-2244-31	TP-25-2	Soluble	Solid	DI Leach	
MB 880-24410/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24410/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24410/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2244-21 MS	TP-24-S	Soluble	Solid	DI Leach	
890-2244-21 MSD	TP-24-S	Soluble	Solid	DI Leach	
890-2244-31 MS	TP-25-2	Soluble	Solid	DI Leach	
890-2244-31 MSD	TP-25-2	Soluble	Solid	DI Leach	

Analysis Batch: 24574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-19	TP-10-S	Soluble	Solid	300.0	24339
MB 880-24339/1-A	Method Blank	Soluble	Solid	300.0	24339
LCS 880-24339/2-A	Lab Control Sample	Soluble	Solid	300.0	24339
LCSD 880-24339/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24339

Analysis Batch: 24590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-1	TP-16-S	Soluble	Solid	300.0	24408
890-2244-2	TP-16-2	Soluble	Solid	300.0	24408
890-2244-3	TP-12-S	Soluble	Solid	300.0	24408
890-2244-4	TP-12-2	Soluble	Solid	300.0	24408
890-2244-5	TP-12-4	Soluble	Solid	300.0	24408
890-2244-6	TP-12-5	Soluble	Solid	300.0	24408
890-2244-7	TP-17-S	Soluble	Solid	300.0	24408
890-2244-8	TP-17-2	Soluble	Solid	300.0	24408
890-2244-9	TP-17-3	Soluble	Solid	300.0	24408
890-2244-10	TP-11-S	Soluble	Solid	300.0	24408
890-2244-11	TP-11-2	Soluble	Solid	300.0	24408
890-2244-12	TP-15-S	Soluble	Solid	300.0	24408
890-2244-13	TP-15-2	Soluble	Solid	300.0	24408
890-2244-14	TP-15-4	Soluble	Solid	300.0	24408
890-2244-15	TP-13-S	Soluble	Solid	300.0	24408
890-2244-16	TP-13-2	Soluble	Solid	300.0	24408
890-2244-17	TP-9-S	Soluble	Solid	300.0	24408
890-2244-18	TP-9-2	Soluble	Solid	300.0	24408
890-2244-20	TP-10-2	Soluble	Solid	300.0	24408
MB 880-24408/1-A	Method Blank	Soluble	Solid	300.0	24408
LCS 880-24408/2-A	Lab Control Sample	Soluble	Solid	300.0	24408
LCSD 880-24408/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24408
890-2244-10 MS	TP-11-S	Soluble	Solid	300.0	24408

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

HPLC/IC (Continued)

Analysis Batch: 24590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-10 MSD	TP-11-S	Soluble	Solid	300.0	24408

Analysis Batch: 24592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2244-21	TP-24-S	Soluble	Solid	300.0	24410
890-2244-22	TP-24-2	Soluble	Solid	300.0	24410
890-2244-23	TP-8-S	Soluble	Solid	300.0	24410
890-2244-24	TP-8-2	Soluble	Solid	300.0	24410
890-2244-25	TP-14-S	Soluble	Solid	300.0	24410
890-2244-26	TP-14-2	Soluble	Solid	300.0	24410
890-2244-27	TP-14-4	Soluble	Solid	300.0	24410
890-2244-28	TP-26-S	Soluble	Solid	300.0	24410
890-2244-29	TP-26-2	Soluble	Solid	300.0	24410
890-2244-30	TP-25-S	Soluble	Solid	300.0	24410
890-2244-31	TP-25-2	Soluble	Solid	300.0	24410
MB 880-24410/1-A	Method Blank	Soluble	Solid	300.0	24410
LCS 880-24410/2-A	Lab Control Sample	Soluble	Solid	300.0	24410
LCSD 880-24410/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24410
890-2244-21 MS	TP-24-S	Soluble	Solid	300.0	24410
890-2244-21 MSD	TP-24-S	Soluble	Solid	300.0	24410
890-2244-31 MS	TP-25-2	Soluble	Solid	300.0	24410
890-2244-31 MSD	TP-25-2	Soluble	Solid	300.0	24410

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-16-S

Date Collected: 04/26/22 09:05

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-1

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			4.98 g	5 mL	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 03:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 13:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 15:03	CH	XEN MID

Client Sample ID: TP-16-2

Date Collected: 04/26/22 09:10

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-2

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 04:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 14:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 15:12	CH	XEN MID

Client Sample ID: TP-12-S

Date Collected: 04/26/22 09:35

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-3

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 04:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 14:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		10			24590	05/01/22 15:21	CH	XEN MID

Client Sample ID: TP-12-2

Date Collected: 04/26/22 09:40

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-4

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			4.97 g	5 mL	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 04:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-12-2

Date Collected: 04/26/22 09:40

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-4

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			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 14:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		5			24590	05/01/22 15:30	CH	XEN MID

Client Sample ID: TP-12-4

Date Collected: 04/26/22 09:50

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-5

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			5.01 g	5 mL	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 05:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 15:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		5			24590	05/01/22 15:56	CH	XEN MID

Client Sample ID: TP-12-5

Date Collected: 04/26/22 10:10

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-6

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			5.00 g	5 mL	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 05:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 15:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 16:05	CH	XEN MID

Client Sample ID: TP-17-S

Date Collected: 04/26/22 10:20

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-7

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 06:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 16:01	AJ	XEN MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-17-S

Date Collected: 04/26/22 10:20

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-7

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			5.03 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 16:14	CH	XEN MID

Client Sample ID: TP-17-2

Date Collected: 04/26/22 10:25

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-8

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			4.96 g	5 mL	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 06:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 16:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 16:23	CH	XEN MID

Client Sample ID: TP-17-3

Date Collected: 04/26/22 10:30

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-9

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			4.95 g	5 mL	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 07:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 16:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 16:31	CH	XEN MID

Client Sample ID: TP-11-S

Date Collected: 04/26/22 10:45

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-10

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 07:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 17:04	AJ	XEN MID
Soluble	Leach	DI Leach			50 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	24590	05/01/22 16:40	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-11-2

Lab Sample ID: 890-2244-11

Date Collected: 04/26/22 10:50

Matrix: Solid

Date Received: 04/26/22 17:00

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 09:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 17:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		5			24590	05/01/22 17:07	CH	XEN MID

Client Sample ID: TP-15-S

Lab Sample ID: 890-2244-12

Date Collected: 04/26/22 11:00

Matrix: Solid

Date Received: 04/26/22 17:00

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 09:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 18:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 17:16	CH	XEN MID

Client Sample ID: TP-15-2

Lab Sample ID: 890-2244-13

Date Collected: 04/26/22 11:05

Matrix: Solid

Date Received: 04/26/22 17:00

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 10:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 18:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24590	05/01/22 17:42	CH	XEN MID

Client Sample ID: TP-15-4

Lab Sample ID: 890-2244-14

Date Collected: 04/26/22 11:10

Matrix: Solid

Date Received: 04/26/22 17:00

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 10:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-15-4

Lab Sample ID: 890-2244-14

Date Collected: 04/26/22 11:10

Matrix: Solid

Date Received: 04/26/22 17:00

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			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 17:51	CH	XEN MID

Client Sample ID: TP-13-S

Lab Sample ID: 890-2244-15

Date Collected: 04/26/22 11:20

Matrix: Solid

Date Received: 04/26/22 17:00

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 14:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 19:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24590	05/01/22 18:00	CH	XEN MID

Client Sample ID: TP-13-2

Lab Sample ID: 890-2244-16

Date Collected: 04/26/22 11:25

Matrix: Solid

Date Received: 04/26/22 17:00

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 15:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 19:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 18:09	CH	XEN MID

Client Sample ID: TP-9-S

Lab Sample ID: 890-2244-17

Date Collected: 04/26/22 12:50

Matrix: Solid

Date Received: 04/26/22 17:00

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	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 15:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 19:53	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-9-S

Date Collected: 04/26/22 12:50

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-17

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			50 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	24590	05/01/22 18:18	CH	XEN MID

Client Sample ID: TP-9-2

Date Collected: 04/26/22 13:00

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-18

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			5.04 g	5 mL	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 16:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 20:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 18:26	CH	XEN MID

Client Sample ID: TP-10-S

Date Collected: 04/26/22 13:05

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-19

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			5.01 g	5 mL	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 16:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 20:35	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	24339	04/27/22 13:14	SC	XEN MID
Soluble	Analysis	300.0		1			24574	04/30/22 23:49	CH	XEN MID

Client Sample ID: TP-10-2

Date Collected: 04/26/22 13:10

Date Received: 04/26/22 17:00

Lab Sample ID: 890-2244-20

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			4.98 g	5 mL	24407	04/28/22 11:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	24955	05/07/22 16:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24403	04/28/22 11:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 20:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24408	04/28/22 11:32	SC	XEN MID
Soluble	Analysis	300.0		1			24590	05/01/22 18:35	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-24-S

Lab Sample ID: 890-2244-21

Date Collected: 04/26/22 13:25

Matrix: Solid

Date Received: 04/26/22 17:00

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	24745	05/03/22 14:54	MR	XEN MID
Total/NA	Analysis	8021B		1			24762	05/05/22 18:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 22:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/01/22 14:40	CH	XEN MID

Client Sample ID: TP-24-2

Lab Sample ID: 890-2244-22

Date Collected: 04/26/22 13:30

Matrix: Solid

Date Received: 04/26/22 17:00

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	24745	05/03/22 14:54	MR	XEN MID
Total/NA	Analysis	8021B		1			24762	05/05/22 18:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	04/30/22 23:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/01/22 16:41	CH	XEN MID

Client Sample ID: TP-8-S

Lab Sample ID: 890-2244-23

Date Collected: 04/26/22 13:35

Matrix: Solid

Date Received: 04/26/22 17:00

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	24745	05/03/22 14:54	MR	XEN MID
Total/NA	Analysis	8021B		1			24762	05/05/22 19:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	05/01/22 00:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		5			24592	05/01/22 16:50	CH	XEN MID

Client Sample ID: TP-8-2

Lab Sample ID: 890-2244-24

Date Collected: 04/26/22 13:45

Matrix: Solid

Date Received: 04/26/22 17:00

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	24745	05/03/22 14:54	MR	XEN MID
Total/NA	Analysis	8021B		1			24762	05/05/22 19:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-8-2

Lab Sample ID: 890-2244-24

Date Collected: 04/26/22 13:45

Matrix: Solid

Date Received: 04/26/22 17:00

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			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	05/01/22 00:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/01/22 17:00	CH	XEN MID

Client Sample ID: TP-14-S

Lab Sample ID: 890-2244-25

Date Collected: 04/26/22 13:50

Matrix: Solid

Date Received: 04/26/22 17:00

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	24745	05/03/22 14:54	MR	XEN MID
Total/NA	Analysis	8021B		1			24762	05/05/22 19:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	05/01/22 00:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/01/22 17:09	CH	XEN MID

Client Sample ID: TP-14-2

Lab Sample ID: 890-2244-26

Date Collected: 04/26/22 13:55

Matrix: Solid

Date Received: 04/26/22 17:00

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	24745	05/03/22 14:54	MR	XEN MID
Total/NA	Analysis	8021B		1			24762	05/05/22 20:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	05/01/22 01:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/02/22 13:39	CH	XEN MID

Client Sample ID: TP-14-4

Lab Sample ID: 890-2244-27

Date Collected: 04/26/22 14:00

Matrix: Solid

Date Received: 04/26/22 17:00

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	24745	05/03/22 14:54	MR	XEN MID
Total/NA	Analysis	8021B		1			24762	05/05/22 20:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	05/01/22 01:22	AJ	XEN MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-14-4

Lab Sample ID: 890-2244-27

Date Collected: 04/26/22 14:00

Matrix: Solid

Date Received: 04/26/22 17:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/01/22 17:45	CH	XEN MID

Client Sample ID: TP-26-S

Lab Sample ID: 890-2244-28

Date Collected: 04/26/22 14:10

Matrix: Solid

Date Received: 04/26/22 17:00

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	24745	05/03/22 14:54	MR	XEN MID
Total/NA	Analysis	8021B		1			24762	05/05/22 20:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	05/01/22 01:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/01/22 17:55	CH	XEN MID

Client Sample ID: TP-26-2

Lab Sample ID: 890-2244-29

Date Collected: 04/26/22 14:15

Matrix: Solid

Date Received: 04/26/22 17:00

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	24745	05/03/22 14:54	MR	XEN MID
Total/NA	Analysis	8021B		1			24762	05/05/22 21:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	05/01/22 02:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/01/22 18:04	CH	XEN MID

Client Sample ID: TP-25-S

Lab Sample ID: 890-2244-30

Date Collected: 04/26/22 14:25

Matrix: Solid

Date Received: 04/26/22 17:00

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	24961	05/06/22 11:08	MR	XEN MID
Total/NA	Analysis	8021B		1			25025	05/08/22 19:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	05/01/22 02:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/01/22 18:13	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Client Sample ID: TP-25-2

Lab Sample ID: 890-2244-31

Date Collected: 04/26/22 14:30

Matrix: Solid

Date Received: 04/26/22 17:00

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	24961	05/06/22 11:08	MR	XEN MID
Total/NA	Analysis	8021B		1			25025	05/08/22 20:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			24937	05/05/22 19:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24638	05/02/22 11:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24405	04/28/22 11:23	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24563	05/01/22 03:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24410	04/28/22 11:34	SC	XEN MID
Soluble	Analysis	300.0		1			24592	05/01/22 18:22	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

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	T104704400-21-22	06-30-22
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: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN 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:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: Merchant Livestock 30

Job ID: 890-2244-1
SDG: 12581651

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2244-1	TP-16-S	Solid	04/26/22 09:05	04/26/22 17:00	SURFACT
890-2244-2	TP-16-2	Solid	04/26/22 09:10	04/26/22 17:00	2
890-2244-3	TP-12-S	Solid	04/26/22 09:35	04/26/22 17:00	SURFACE
890-2244-4	TP-12-2	Solid	04/26/22 09:40	04/26/22 17:00	2
890-2244-5	TP-12-4	Solid	04/26/22 09:50	04/26/22 17:00	4
890-2244-6	TP-12-5	Solid	04/26/22 10:10	04/26/22 17:00	5
890-2244-7	TP-17-S	Solid	04/26/22 10:20	04/26/22 17:00	SURFACE
890-2244-8	TP-17-2	Solid	04/26/22 10:25	04/26/22 17:00	2
890-2244-9	TP-17-3	Solid	04/26/22 10:30	04/26/22 17:00	3
890-2244-10	TP-11-S	Solid	04/26/22 10:45	04/26/22 17:00	SURFACE
890-2244-11	TP-11-2	Solid	04/26/22 10:50	04/26/22 17:00	2
890-2244-12	TP-15-S	Solid	04/26/22 11:00	04/26/22 17:00	SURFACE
890-2244-13	TP-15-2	Solid	04/26/22 11:05	04/26/22 17:00	2
890-2244-14	TP-15-4	Solid	04/26/22 11:10	04/26/22 17:00	4
890-2244-15	TP-13-S	Solid	04/26/22 11:20	04/26/22 17:00	SURFACE
890-2244-16	TP-13-2	Solid	04/26/22 11:25	04/26/22 17:00	2
890-2244-17	TP-9-S	Solid	04/26/22 12:50	04/26/22 17:00	SURFACE
890-2244-18	TP-9-2	Solid	04/26/22 13:00	04/26/22 17:00	2
890-2244-19	TP-10-S	Solid	04/26/22 13:05	04/26/22 17:00	SURFACE
890-2244-20	TP-10-2	Solid	04/26/22 13:10	04/26/22 17:00	2
890-2244-21	TP-24-S	Solid	04/26/22 13:25	04/26/22 17:00	SURFACE
890-2244-22	TP-24-2	Solid	04/26/22 13:30	04/26/22 17:00	2
890-2244-23	TP-8-S	Solid	04/26/22 13:35	04/26/22 17:00	SURFACE
890-2244-24	TP-8-2	Solid	04/26/22 13:45	04/26/22 17:00	2
890-2244-25	TP-14-S	Solid	04/26/22 13:50	04/26/22 17:00	SURFACE
890-2244-26	TP-14-2	Solid	04/26/22 13:55	04/26/22 17:00	2
890-2244-27	TP-14-4	Solid	04/26/22 14:00	04/26/22 17:00	4
890-2244-28	TP-26-S	Solid	04/26/22 14:10	04/26/22 17:00	SURFACE
890-2244-29	TP-26-2	Solid	04/26/22 14:15	04/26/22 17:00	2
890-2244-30	TP-25-S	Solid	04/26/22 14:25	04/26/22 17:00	SURFACE
890-2244-31	TP-25-2	Solid	04/26/22 14:30	04/26/22 17:00	2



Setting the Standard since 1990
Stafford, Texas (281-240-4200)

Dallas Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

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CHAIN OF CUSTODY

Page 1 of 2

Page 1 of 3

Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

Tampa, Florida (813-620-2000)

Service Center - San Antonio, Texas (210-509-3334)

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Xenco Quote #

Xenco Job #

Matrix Codes

Client / Reporting Information

Company Name / Branch:

GHD/Midland

Company Address: 2135 S. Loop 250 West Midland TX

Project Information

Project Name/Number:

Merchant Livestock 30 / 12581651

Project Location:

Eddy County, New Mexico

Invoice To:

Centennial Resource Development, Inc / Nikki Mishner

Email: becky.haskell@ghd.com

Phone No: (432)250-7317

Matthew.laughlin@ghd.com

Zach.comino@ghd.com

Nikki.mishner@cdevinc.com

tom.larson@ghd.com

Project Contact: Becky Haskell / Glenn Guinness

Sample's Name Zach Comino

PO Number: NA

No.

Field ID / Point of Collection

Collection

Number of preserved bottles

Field Comments

Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO ₃	H ₂ SO ₄	NaOH	NaHSO ₄	MeOH	NONE
1 TP-16-S	4/26/22	0905	S	1								X
2 TP-16-R'		0910										X
3 TP-12-S		0935										X
4 TP-12-R'		0940										X
5 TP-12-4'		0950										X
6 TP-12-S'		1010										X
7 TP-17-S		1020										X
8 TP-17-2'		1025										X
9 TP-17-3'		1030										X
10 TP-11-S		1045										X

Data Deliverable Information

☐ Same Day TAT	☒ 5 Day TAT	☐ Level II Std QC	☐ Level IV (Full Data Pkg /raw data)
☐ Next Day EMERGENCY	☐ 7 Day TAT	☐ Level III Std QC+ Forms	☐ TRRP Level IV
☐ 2 Day EMERGENCY	☐ Contract TAT	☐ Level 3 (CLP Forms)	☐ UST / RG -411
☐ 3 Day EMERGENCY		☐ TRRP Checklist	

TAT Starts Day received by Lab, if received by 5:00 pm

Report MDLs and J values.

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by Supplier:

Date Time:

Received By:

Date Time:

Relinquished By:

Date Time:

Received By:

Date Time:

Relinquished By:

Date Time:

Received By:

Date Time:

Relinquished By:

Date Time:

Received By:

Date Time:

Relinquished by:

Date Time:

Received By:

Date Time:

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Received By:

Date Time:

Relinquished By:

Date Time:

Received By:

Date Time:

Relinquished By:

Date Time:

Received By:

Date Time:

Relinquished By:

Date Time:

Received By:

Date Time:

890-2244 Chain of Custody

S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
W = Waste
O = Oil
WW = Waste Water
A = Air

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a separate contract.



CHAIN OF CUSTODY

Page 2 of 4

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Stafford, Texas (281-240-4200)

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Norcross, Georgia (770-449-8800)

Lakeand, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

3-620-2000)

Service Center - San Antonio, Texas (210-509-3334)		www.xenco.com		Xenco Quote #		Xenco Job #	
Client / Reporting Information Company Name / Branch: GHD/Midland Company Address: 2135 S. Loop 280 West Midland TX		Project Information Project Name/Number: Merchant Livestock 30 / 12581651 Project Location: Eddy County, New Mexico Invoice To: Centennial Resource Development, Inc / Nikki Mishler		Analytical Information		Matrix Codes S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water W = Wipe O = Oil WM = Waste Water A = Air	
Email: becky.haskell@ghd.com Phone No: (432)256-7917 Matthew.laughlin@ghd.com zach.comino@ghd.com Nikki.mishler@cddevinc.com tom.larson@ghd.com Project Contact: Becky Haskell / Glenn Guinney		PO Number: NA					
Turnaround Time (Business days)		Date Deliverable Information					
Same Day TAT ☒ 5 Day TAT ☐ Next Day EMERGENCY ☐ 7 Day TAT ☐ 2 Day EMERGENCY ☐ Contract TAT ☐ 3 Day EMERGENCY ☐ TRRP Checklist ☐		Level II Std QC ☐ Level IV (Full Data Pkg /raw date) ☐ Level III Std QC+ Forms ☐ TRRP Level IV ☐ Level 3 (CLP Forms) ☐ UST / RG-411 ☐					
TAT Starts Day received by Lab if received by 5:00 pm		Report MDLs and J values					
Relinquished by Supplier: <i>Nikki Mishler</i> Date Time: <i>1/24/22 16:58</i> Received By: <i>Joe Cap</i> Date Time: <i>4-26-22</i> Relinquished by: <i>Becky Haskell</i> Date Time: <i>1/24/22 16:58</i> Received By: <i>Joe Cap</i> Date Time: <i>4-26-22</i>		Relinquished By: <i>Joe Cap</i> Date Time: <i>4-26-22</i>		Relinquished By: <i>Joe Cap</i> Date Time: <i>4-26-22</i>		Relinquished By: <i>Joe Cap</i> Date Time: <i>4-26-22</i>	
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Relinquished by: <i>Becky Haskell</i> Date Time: <i>1/24/22 1</i>							



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CHAIN OF CUSTODY

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Lakeland, Florida (863-646-8526)
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Service Center - San Antonio, Texas (210-509-3334)

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Client / Reporting Information

Company Name / Branch: **GHD/Midland**

Company Address: **2135 S. Loop 280 West Midland TX**

Email: **becky.haskell@ghd.com** Phone No: **(432)50-7917**

Matthew.buchlin@ghd.com Zach.comino@ghd.com

Nikki.mishler@cddevinc.com tom.larson@ghd.com

Project Contact: **Becky Haskell / Glenn Guinness**

Sample's Name **Zach Comino**

Project Information

Project Name/Number: **Merchant Livestock 30 / 12581651**

Project Location: **Eddy County, New Mexico**

Invoice To: **Centennial Resource Development, Inc / Nikki Mishler**

PO Number: **NA**

No.	Field ID / Point of Collection	Collection		Number of preserved bottles										TPH By 8015 Mod (GRO, DRO & MRO)	BTEX 8021 B	Chloride 600	Field Comments
		Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH				
1	TP-24-5		4/24/21	3:25	S	1								X	X	X	
2	TP-24-2'													X	X	X	
3	TP-8-5													X	X	X	
4	TP-8-2'													X	X	X	
5	TP-14-5													X	X	X	
6	TP-14-2'													X	X	X	
7	TP-14-4'													X	X	X	
8	TP-23-3'													X	X	X	
9	TP-23-2'													X	X	X	
10	TP-25-5													X	X	X	

Turnaround Time (Business days)

☐ Same Day TAT

☒ 6 Day TAT

☐ Next Day EMERGENCY

☐ 7 Day TAT

☐ 2 Day EMERGENCY

☐ Contract TAT

☐ 3 Day EMERGENCY

☐ TRRP Checklist

Data Deliverable Information

☐ Level II Std QC

☐ Level IV (Full Data Pkg /raw date)

☐ Level III Std QC+ Forms

☐ TRRP Level IV

☐ Level 3 (CLP Forms)

☐ UST / RG -411

No SSOW / Direct Bill to EOG

TAT Starts Day received by Lab, if received by 5:00 pm

Report MDLs and J values.

Relinquished by Sampler: *Becky Haskell*

Relinquished by: *Becky Haskell*

Relinquished by: *Becky Haskell*

Relinquished by: *Becky Haskell*

DATE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished By: *Becky Haskell* **Date Time:** *4/26/21 16:51*

Relinquished By: *Becky Haskell* **Date Time:** *4/26/21 16:51*

Relinquished By: *Becky Haskell* **Date Time:** *4/26/21 16:51*

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CHAIN OF CUSTODY

Page **4** Of **4**

Page 4 Of 4

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Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)
Tampa, Florida (813-620-2000)

[illegible]

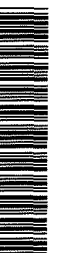
Eurofins Carlsbad

4080 Alameda CA

Carlsbad NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



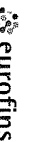
Environment Testing

Client Information (Sub Contract Lab)			Sampler	Lab PM	Carrier Tracking No(s)	CCC No:										
Client Contact:			Phone:	Simmons Debbie		890-730 1										
Shipping/Receiving			E-Mail	Debbie Simmons@get.eurofinsus.com	State of Origin:	Page 1 of 4										
Company			Accreditations Required (See note)		New Mexico	Page 1 of 4										
Eurofins Environment Testing South Cent			NELAP - Louisiana NELAP - Texas			890-2244-1										
Address			Due Date Requested	Analysis Requested												
1211 W Florida Ave.			5/2/2022													
City			TAT Requested (days)													
Midland																
State Zip																
TX, 79701																
Phone			PO #:													
432-704-5440(Tel)																
Email			WO #:													
Project Name:			Project #:													
Merchant Livestock 30			88001187													
Site			SSOW#:													
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/6036FP_Calc BTEX-8021 (bulk jar)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_Calc	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note	
TP-16-S (890-2244-1)			4/26/22	09 05		Solid		X	X	X	X	X	X	X	1	
TP-16-2 (890-2244-2)			4/26/22	09 10		Solid		X	X	X	X	X	X	X	1	
TP-12-S (890-2244-3)			4/26/22	09 35		Solid		X	X	X	X	X	X	X	1	
TP-12-2 (890-2244-4)			4/26/22	09 40		Solid		X	X	X	X	X	X	X	1	
TP-12-5 (890-2244-5)			4/26/22	09 50		Solid		X	X	X	X	X	X	X	1	
TP-12-S (890-2244-6)			4/26/22	10 10		Solid		X	X	X	X	X	X	X	1	
TP-17-S (890-2244-7)			4/26/22	10 20		Solid		X	X	X	X	X	X	X	1	
TP-17-2 (890-2244-8)			4/26/22	10 25		Solid		X	X	X	X	X	X	X	1	
TP-17-3 (890-2244-9)			4/26/22	10 30		Solid		X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.																
Possible Hazard Identification																
Unconfirmed																
Deliverable Requested I II III IV Other (specify)																
Primary Deliverable Rank 2																
Empty Kit Relinquished by																
Relinquished by																
Date/Time																
Company																
Relinquished by																
Date/Time																
Company																
Relinquished by																
Date/Time																
Company																
Custody Seals Intact:																
A Yes A No																
Custody Seal No																
Cooler Temperature(s) °C and Other Remarks																
1.5/1.3 - 2 IPB																

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



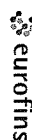
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking (Not's)	COC No					
Client Contact:	Phone:	Simmons, Debbie			890-730 2					
Shipping/Receiving	E-Mail	Debbie.Simmons@eurofins.com	State of Origin		Page 2 of 4					
Company	Accreditations Required (See note)	NE LAP - Louisiana, NE LAP - Texas	New Mexico							
Eurofins Environment Testing South Cent					Job #: 890-2244-1					
Address	Due Date Requested									
1211 W. Florida Ave	5/2/2022									
City	TAT Requested (days):									
Midland										
State, Zip										
TX 79701										
Phone	PO #:									
432-704-5440(Tel)										
Email	W/O #:									
Project Name:	Project #:									
Merchant Livestock 30	88001187									
Site:	SSOW#:									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=grab, S=static, O=water, BT=issue, A=Air)	Matrix (W=water, S=solid, O=water, BT=issue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Preservation Codes	Special Instructions/Note:
TP-1-S (890-2244-10)	4/26/22	10 45	Mountain		Solid	X	X	X	X	
TP-1-1-2 (890-2244-11)	4/26/22	10 50	Mountain		Solid	X	X	X	X	
TP-1-5-S (890-2244-12)	4/26/22	11 00	Mountain		Solid	X	X	X	X	
TP-1-5-2 (890-2244-13)	4/26/22	11 05	Mountain		Solid	X	X	X	X	
TP-1-5-4 (890-2244-14)	4/26/22	11 10	Mountain		Solid	X	X	X	X	
TP-1-3-S (890-2244-15)	4/26/22	11 20	Mountain		Solid	X	X	X	X	
TP-1-3-2 (890-2244-16)	4/26/22	11 25	Mountain		Solid	X	X	X	X	
TP-9-S (890-2244-17)	4/26/22	12 50	Mountain		Solid	X	X	X	X	
TP-9-2 (890-2244-18)	4/26/22	13 00	Mountain		Solid	X	X	X	X	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank 2		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Empty Kit Relinquished by		Date		Time						
Relinquished by		Date/Time		Company						
Relinquished by		Date/Time		Company						
Relinquished by		Date/Time		Company						
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks						

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



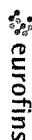
Environment Testing America

Client Information (Sub Contract Lab)				Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact:				Simmons, Debbie			890-730 3
Shipping/Receiving				E-Mail:	Debbie.Simmons@eurofins.com	State of Origin:	Page: Page 3 of 4
Company:				Eurofins Environment Testing South Cent		Accreditations Required (See note):	Job #:
Address:				1211 W. Florida Ave		NELAP - Louisiana, NELAP - Texas	
City:				Midland		Dues Date Requested	
State Zip:				TX, 79701		5/2/2022	
Phone:				432-704-5440 (Tel)		TAT Requested (days):	
Email:				WQ #:		Analysis Requested	
Project Name:				Merchant Livestock 30		Field Filtered Sample (Yes or No)	
Site:				SSDW#:		Perform MS/MSD (Yes or No)	
Sample Identification - Client ID (Lab ID)				Sample Date		8021B/6036FP_Calc BTEX-8021 (bulk jar)	
TP-10-S (890-2244-19)				4/26/22		8015MOD_NM/8015NM_S_Prep Full TPH	
TP-10-2 (890-2244-20)				4/26/22		300_ORGFM_28D/DI_LEACH Chloride	
TP-24-S (890-2244-21)				4/26/22		8015MOD_Calc	
TP-24-2 (890-2244-22)				4/26/22		Total_BTEX_GCV	
TP-8-S (890-2244-23)				4/26/22			
TP-8-2 (890-2244-24)				4/26/22			
TP-14-S (890-2244-25)				4/26/22			
TP-14-2 (890-2244-26)				4/26/22			
TP-14-4 (890-2244-27)				4/26/22			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC, places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis, the sample must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to said custody, attesting to said compliance to Eurofins Environment Testing South Central, LLC.							
Possible Hazard Identification							
Unconfirmed							
Deliverable Requested I II III IV Other (specify)				Primary Deliverable Rank 2			
Empty Kit Relinquished by:				Date		Time	
Relinquished by:				Date/Time:		Received by:	
Relinquished by:				Date/Time:		Received by:	
Relinquished by:				Date/Time:		Received by:	
Custody Seals Intact:				Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:	
Δ Yes Δ No						1.5/1.3 -22 IP28	

Eurofins Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Center Tracking No(s)	COC No									
Client Contact	Phone:	E-Mail	Simmons Debbie				890-730 4									
Shipping/Receiving			Debbie Simmons@et.eurofinsus.com				Page 4 of 4									
Company	Eurofins Environment Testing South Cent			Accreditations Required (See note)		State of Origin	Job #									
Address	1211 W. Florida Ave			NELAP - Louisiana NELAP - Texas		New Mexico	890-2244-1									
City	Midland			Analysis Requested												
State Zip	TX, 79701															
Phone	432-704-5440(Tel)															
Email	WFO #															
Project Name	Project #															
Site	SSOW#															
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=biomass, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/6036FP_Calc BTEX-8021 (bulk jar)	8016MOD_NM/8016NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8016MOD_Calc	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
TP-26-S (890-2244-28)		4/26/22	14 10	Mountain	Solid			X	X	X	X	X	X	X	1	
TP-26-2 (890-2244-29)		4/26/22	14 15	Mountain	Solid			X	X	X	X	X	X	X	1	
TP-26-S (890-2244-30)		4/26/22	14 25	Mountain	Solid			X	X	X	X	X	X	X	1	
TP-25-2 (890-2244-31)		4/26/22	14 30	Mountain	Solid			X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyze & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.																
Possible Hazard Identification																
Unconfirmed																
Deliverable Requested I II III IV Other (Specify)																
Primary Deliverable Rank 2																
Empty Kit Relinquished by																
Relinquished by																
Relinquished by																
Relinquished by																
Custody Seals Intact																
A Yes A No																
Custody Seal No																
Cooler Temperature(s) °C and Other Remarks.																
15/1/3 -2 IPB																

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2244-1

SDG Number: 12581651

Login Number: 2244**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.	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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2244-1

SDG Number: 12581651

Login Number: 2244**List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 04/28/22 10:30 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	

District I

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 121829

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 121829
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Please address soils at TP-25 where 129.9 mg/kg Total TPH was detected at 2'.	8/30/2022