

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	nAPP2208051921
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 #
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland Texas 79705	

### Location of Release Source

Latitude 32.20953 \_\_\_\_\_ Longitude -103.46472 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Romeo Fed 22 Battery 1	Site Type: Production Facility
Date Release Discovered: 03/21/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	22	24S	34E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Quail Ranch )

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 15	Volume Recovered (bbls) 10
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 160	Volume Recovered (bbls) 160
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release:

The check valve failed on the SWD line which caused produced water to overfill the produced water tanks due to the disposal being down due to a power outage. 160 bbls of produced water was released and contained within the lined metal berm of the facility while 15 bbls of crude oil were released outside of the containment, including an overspray area which went north-northwest of the facility. The estimated volume of released produced water was calculated based on readouts from the meter and recovered fluids from the lined containment.

Based on the square footage of the impacted soils (2,180 sq. ft. and 21,885 sq. ft. of overspray) and an estimated depth of impact of approximately 1' and 0.25' for the overspray area, accounting for porosity and saturation % of the soils (sand), an estimated 15 bbls of crude oil was released. Approximately 10 bbls of crude oil were recovered during initial response activities.

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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?  
The amount released was greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  
Yes, a NOR was submitted by Nikki Mishler through the NMOCD Portal on 3/21/2022.

### Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Nikki Mishler

Title: Sr. Environmental Representative

Signature: Nikki Mishler

Date: 3/22/2022

email: Nikki.Mishler@cdevinc.com

Telephone: 432-634-8722

#### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.

State of New Mexico  
Oil Conservation Division

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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. Environmental Representative

Signature: 

Date: 6/15/22

email: Nikki.Mishler@cdevinc.com

Telephone: 432-634-8722

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

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Application ID	

## Remediation Plan

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

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

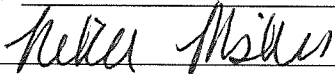
**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Nikki Mishler

Title: Sr. Environmental Representative

Signature: 

Date: 6/15/22

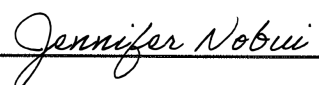
email: Nikki.Mishler@cdevinc.com

Telephone: 432-634-8722

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: 

Date: 06/22/2022

State of New Mexico  
Oil Conservation Division

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## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Nikki Mishler Title: Sr. Environmental Representative

Signature:  Date: 10/20/22

email: nikki.mishler@cdevinc.com Telephone: 432-634-8722

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by:  Date: 01/10/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

Our ref: 12580761

December 08, 2022

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

Re: **Site Closure Report**  
**Romeo Federal 22 Battery 1 Release Site**  
**Centennial Resources Production, Inc.**  
**Incident ID: nAPP2208051921**  
**D-22-24S-34E, Lea County, New Mexico**  
**Centennial Project #: CDEV ID 54383**

To Whom It May Concern:

## 1. Introduction

GHD Services, Inc. (GHD), on behalf of Centennial Resources Production, Inc. (CRP), submits this Site Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 1 Office. This Report provides documentation of remedial activities and analyses in the affected area at the Romeo Federal 22 Release Site (Site). The Site is located in Unit Letter D Section 22 of Township 24 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.20953 N latitude and 103.46472 W longitude. The private surface owner of the land where the release occurred is the Quail Ranch. Figure 1 depicts the Site location. The CRP production facility and other site details are depicted on Figure 2.

## 2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on March 22, 2022. The C-141 stated that approximately fifteen (15) barrels of crude oil and one hundred-sixty (160) barrels of produced water were released. The release occurred as the result of failed check valve on the SWD line, which caused the produced water tanks to overfill. Approximately ten (10) barrels of crude oil and one hundred-sixty (160) 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 nAPP2208051921. The Release Notification, Site Assessment/Characterization, Remediation, and Closure 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).

The Site Characterization and Remediation Work Plan dated June 15, 2022, was approved by the NMOCD on June 22, 2022. Details of the Site Characterization documentation and previously completed Site assessment activities can be found in the aforementioned Site Characterization and Remediation Work Plan. The soil closure criteria are listed below:

*General Site Characterization and Groundwater:*

Site Characterization	Average Groundwater Depth (feet)
No Receptors Found	>100 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	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

### 4. Initial Soil Delineation Assessment Summary and Findings

On April 7, 2022, GHD on behalf of CRP, installed seven (7) hand auger soil borings (HA-1 through HA-7) within the suspected impacted area. Samples were collected at varying depths from one half foot (0.5) to four (4) feet bgs (SB-1 through SB-7). Samples were submitted to Eurofins Laboratory 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 300.

Analytical results indicated three (3) of the soil samples (SB-2, SB-3, and SB-4) exhibited TPH concentrations above 19.15.29.13 for soils within the top four (4) feet. One (1) of the soil samples (SB-5) exhibited TPH concentrations above the selected Table I Closure Criteria for the Site (>100 feet DTW).

On April 11 and 12, 2022, GHD returned to the Site to collect samples in the overspray area of the release via hand auger. Samples were collected from surface (0 feet bgs) to one half (0.5) foot bgs (P1-S/P1-0.5 through P6-S/P6-0.5). The samples were submitted to Eurofins Laboratory in Carlsbad, New Mexico, and analyzed for BTEX by EPA Method 8021B, TPH) by Method 8015B Modified, and chloride by EPA Method 300. None of the samples exhibited BTEX, TPH, or chloride concentrations above 19.15.29.13 for soils within the top four (4) feet. Sample locations and analytical results are provided in the Site Characterization and Remediation Work Plan, dated June 15, 2022.

## 5. Initial Excavation, Waste Management and Confirmation Sampling Activities

On April 19, 2022, GHD and Standard Safety & Supply (SS) mobilized to the Site to perform excavation activities on the impacted area of the Site, excavation activities continued through April 27, 2022. The area of the excavation ranged in depth from one half foot (0.5) to seven (7) feet bgs. As shown on Figure 3, a total of forty-seven (47) bottom hole composite (BH-1 through BH-47) and ten (10) sidewall composite (SW-1 through SW-10) confirmation samples were collected. The samples were submitted to Eurofins Laboratory in Carlsbad, New Mexico, and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

Analytical results indicated twenty-four (24) of the bottom hole composite samples (BH-3 through BH-7, BH-9 through BH-16, BH-19, BH-21 through BH-26, BH-28, BH-30, BH-31, and BH-34) exhibited TPH concentrations above 19.15.29.13 for soils within the top four (4) feet. Analytical results indicated five (5) of the sidewall composite samples (SW-1 through SW-4 and SW-10) exhibited TPH concentrations above 19.15.29.13 for soils within the top four (4) feet. Two (2) of the sidewall composite samples (SW-3 and SW-4) also exhibited chloride concentrations above 19.15.29.13 for soils within the top four (4) feet. Sample locations and analytical results are provided in the Site Characterization and Remediation Work Plan, dated June 15, 2022.

Waste Management activities were performed in coordination with CRP directives. GHD obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (NMI-63), Northern Delaware Basin Landfill facility located at 2029 W NM HWY 128, Jal, NM 88252. Approximately 680 cubic yards of impacted soil were disposed at Northern Delaware Basin Landfill, the waste manifests from April 20, 2022, through April 26, 2022, are available upon request and aren't included in this report due to size of the file. A Daily Disposal Summary is provided as Table 2.

## 6. Final Excavation, Waste Management, and Confirmation Sampling Activities

Due to samples exceeding Table I Closure Criteria, GHD and SDR Enterprises (SDR) mobilized to the Site on July 7, 2022, to further excavate the affected areas. Excavation activities continued through September 14, 2022. The areas around BH-3 through BH-7, BH-9 through BH-16, BH-21 through BH-26, and BH-28, were further excavated from one-half (0.5) to one (1) foot bgs and resampled (BH-3A through BH-7A, BH-9A through BH-16A, BH-21A through BH-26A, and BH-28A). The area around BH-19 was further excavated from two and one-half (2.5) to three (3) feet bgs and resampled (BH-19A). The areas around BH-30 and BH-31 were further excavated from two (2) to three (3) feet bgs and resampled (BH-30A And BH-31A). The area around BH-34 was further excavated from three (3) to three and one-half (3.5) feet bgs and resampled (BH-34A). The sidewalls of sample locations SW-1 through SW-4 and SW-10 were further excavated and resampled (SW-1A through SW-4A and SW-10A). The samples were submitted to Eurofins Laboratory in Carlsbad, New Mexico, and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

Analytical results indicated four (4) of the bottom hole composite samples (BH-3A, BH-7A, BH-31A, and BH-34A) exhibited TPH concentrations above 19.15.29.13 for soils within the top four (4) feet. None of the other samples collected exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria.

Due to the samples exhibiting TPH concentrations above 19.15.29.13 for soils within the top four (4) feet, GHD and SDR returned to the Site on August 22, 2022, to further excavate the affected areas. The areas around BH-3A and BH-7A were further excavated from one (1) to two (2) feet bgs and resampled (BH-3B and BH-7B). The area around BH-31A was further excavated from three (3) to three and one-half (3.5) feet bgs and resampled (BH-31B). The area around BH-34A was further excavated from three and one-half (3.5) to four (4) feet bgs and resampled (BH-34B). The samples were submitted to Eurofins Laboratory in Carlsbad, New Mexico, and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated one (1) of the bottom hole composite samples (BH-31B) exhibited chloride concentrations above 19.15.29.13 for soils within the top four (4) feet. None of the other samples collected exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria.

Due to the sample exhibiting chloride concentrations above 19.15.29.13 for soils within the top four (4) feet, GHD and SDR returned to the Site on September 14, 2022, to further excavate the affected area. The area around BH-31B was further excavated from three and one-half (3.5) to five (5) feet bgs and resampled (BH-31C). A sidewall sample was collected from the area around BH-31C (SW-11), on November 23, 2022. The samples were submitted to Eurofins Laboratory in Carlsbad, New Mexico, and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated the samples did not exhibit benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria. Sampling locations are depicted on Figure 2. Analytical results are included on Table 1 and in the Laboratory Analytical reports included as Attachment A.

Waste Management activities were performed in coordination with CRP directives. GHD obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (NMI-63), Northern Delaware Basin Landfill facility located at 2029 W NM HWY 128, Jal, NM 88252. Approximately 208 additional cubic yards (total of 888 yds<sup>3</sup>) of impacted soil were disposed at Northern Delaware Basin Landfill, the waste manifests from August 3, 2022, are available upon request and aren't included in this report due to size of the file. A Daily Disposal Summary is provided as Table 2. A photographic log is included as Attachment B. Confirmation Sampling Notifications are provided at Attachment C.

## 7. nAPP2208051921 Closure Request

Soil assessment, delineation, and remediation activities for Remediation Permit nAPP2208051921 have been performed in accordance with applicable NMOCDC guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of CRP, respectfully requests closure and no further regulatory actions for nAPP2208051921.

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

Sincerely,

GHD



Nate Reece  
Environmental Scientist



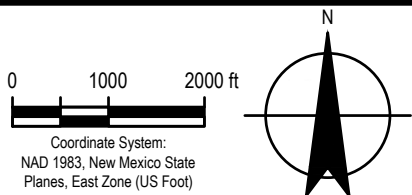
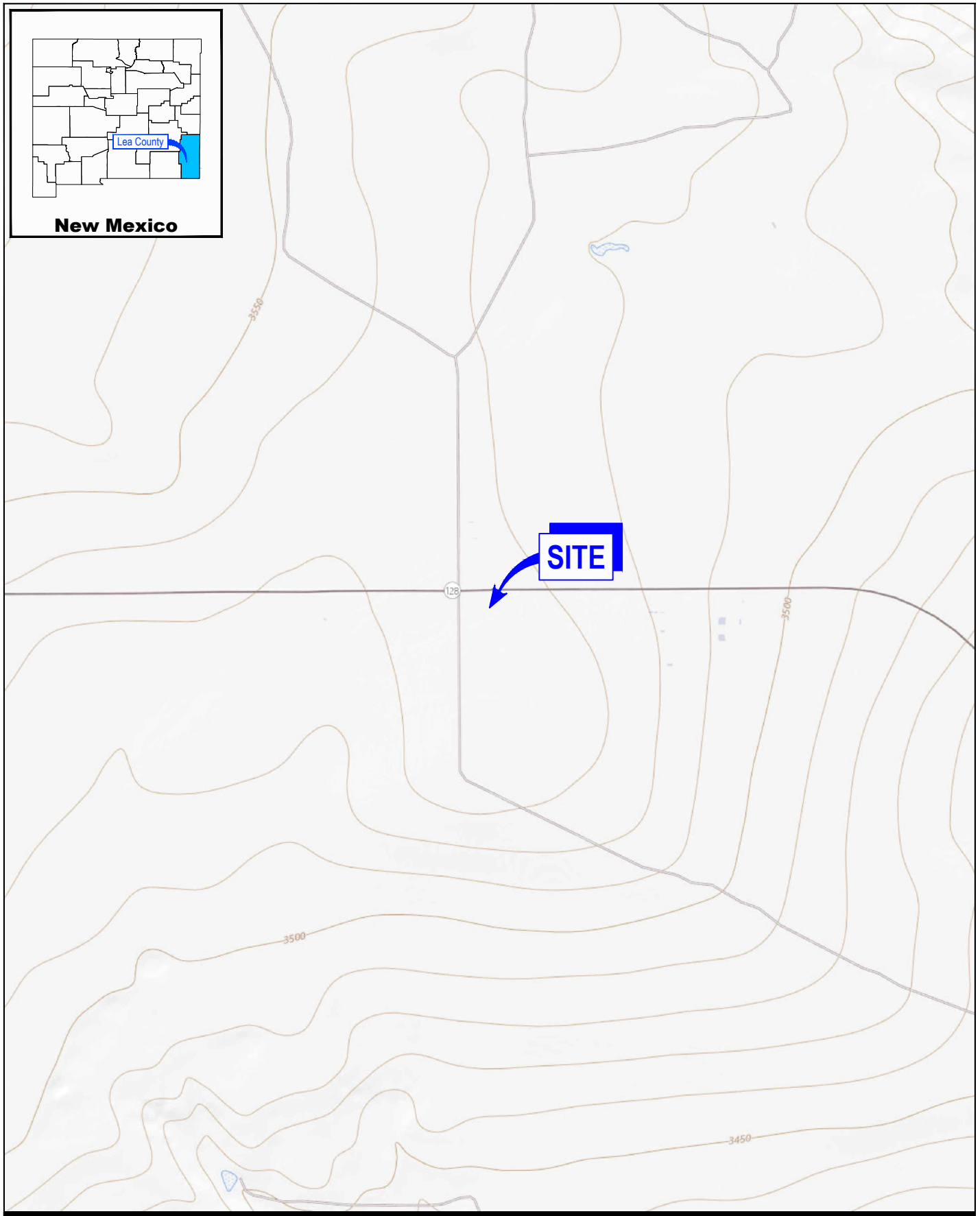
JT Murrey  
Senior Project Manager

NR/jt/2

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

cc:        Nikki Mishler

## Figures

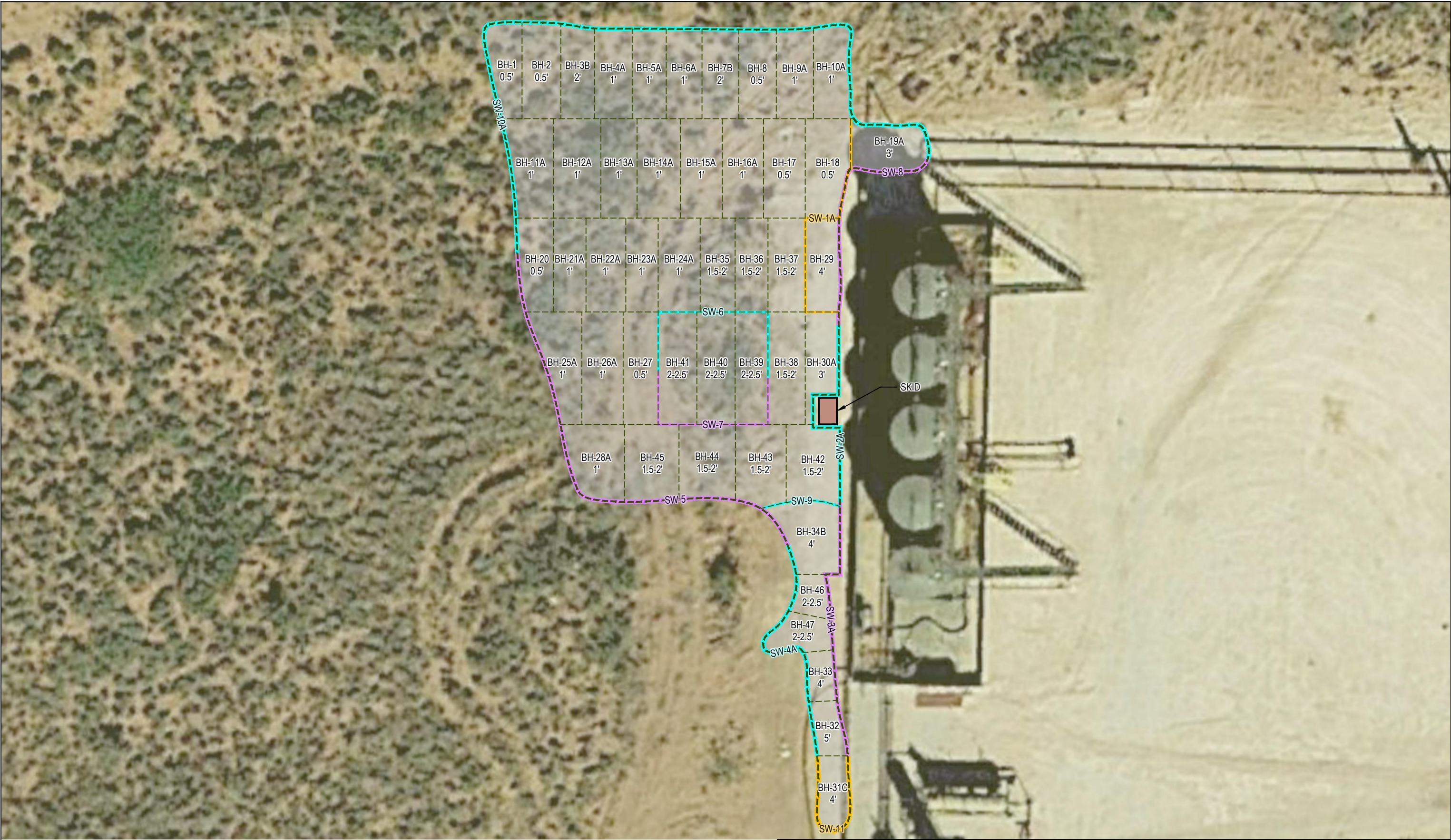


EOG RESOURCES  
LEA COUNTY, NEW MEXICO  
ROMEO FEDERAL 22 BATTERY 1

Project No. 12580761  
Date December 2022

SITE LOCATION MAP

FIGURE 1



LEGEND

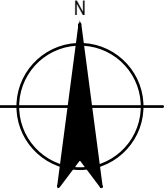
- EXCAVATED AREA
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE

NOTES:

- SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.



Coordinate System:  
NAD 1983, New Mexico State  
Planes, East Zone (US Foot)



EOG RESOURCES  
LEA COUNTY, NEW MEXICO  
ROMEO FEDERAL 22 BATTERY 1

CONFIRMATION SAMPLING  
LOCATION MAP

Project No. 12580761  
Date December 2022

FIGURE 2

Tables

Table 1  
Summary of Soil Analytical Data  
Romeo Federal 22 Battery 1  
Centennial Resources Production  
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Total Petroleum Hydrocarbons (TPH)										Chloride
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	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 Soils >100 feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg				
Bottom Hole Confirmation Samples													
BH-1	4/19/22	0.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	47.3	47.3	<49.9	47.3	12.8
BH-2	4/19/22	0.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	72.0	72.0	<50.0	72.0	15.4
BH-3	4/19/22	0.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	25.1	272	297	<50.0	297	22.8
BH-3A	7/11/22	1'	0.00266	0.00205	0.00345	0.0204	0.0285	30.9	18.3	49.2	56.6	106	10.5
BH-3B	8/22/22	2'	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	41.0	<15.0	41.0	40.0	81.0	14.6
BH-4	4/26/22	0.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	564	564	142	706	21.2
BH-4A	7/11/22	1'	<0.000384	0.000768	0.000705	0.00170	0.00317	20.1	18.6	38.7	48.8	87.5	9.08
BH-5	4/26/22	0.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	24.0	320	353.0	98.7	453	20.3
BH-5A	7/11/22	1'	0.000605	0.00132	0.000682	0.00115	0.00376	18.7	18.8	37.5	45.0	82.5	8.40
BH-6	4/26/22	0.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	105	105	54.6	160	11.0
BH-6A	7/11/22	1'	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	19.7	17.7	37.4	41.3	78.7	13.3
BH-7	4/26/22	0.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	91.0	91.0	53.4	144	14.1
BH-7A	7/11/22	1'	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	33.1	40.4	73.5	49.1	123	10.4
BH-7B	8/22/22	2'	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	40.8	<14.9	40.8	34.9	75.7	12.7
BH-8	4/20/22	0.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	28.1	18.5	46.6	<49.9	46.6	7.79
BH-9	4/26/22	0.5'	<0.00199	<0.00199	<0.00199	0.00471	0.00471	22.3	99.2	121.5	44.8	166	30.5
BH-9A	7/11/22	1'	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	20.1	<15.0	20.1	42.6	62.7	6.25
BH-10	4/26/22	0.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	15.4	214	229	67.3	297	12.8
BH-10A	7/11/22	1'	<0.000386	0.000563	<0.000566	<0.00101	<0.00101	21.4	<15.0	21.4	43.1	64.5	4.11
BH-11	4/26/22	0.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	17.1	197	154.1	47.8	202	11.4
BH-11A	7/11/22	1'	<0.000387	<0.000458	0.000638	<0.00101	<0.00101	18.3	17.7	36.0	40.1	76.1	7.66
BH-12	4/26/22	0.5'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	16.7	200	219	64.8	284	17.1
BH-12A	7/11/22	1'	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	24.0	<15.0	24.0	41.3	65.3	5.82
BH-13	4/26/22	0.5'	<0.00199	<0.00199	<0.00199	0.0179	0.0179	15.8	112	128	43.7	172	16.4
BH-13A	7/11/22	1'	<0.000384	0.00143	<0.000564	<0.00101	0.00143	20.5	<15.0	20.5	46.0	66.5	8.46
BH-14	4/26/22	0.5'	<0.00200	<0.00200	<0.00200	0.00245	0.00245	<49.9	182	182	47.9	230	14.8
BH-14A	7/11/22	1'	0.000459	0.000646	0.000642	0.00115	0.00290	21.5	<15.0	21.5	37.2	58.7	5.14
BH-15	4/26/22	0.5'	<0.00199	<0.00199	<0.00199	0.00201	0.00201	<49.9	459	459	62.2	321	34.7
BH-15A	7/11/22	1'	<0.000384	0.00267	<0.000564	0.00297	0.00564	23.9	15.0	38.9	35.9	74.8	11.0
BH-16	4/24/22	0.5'	<0.00201	<0.00201	<0.00201	0.00460	0.00460	16.9	278	295	49.2	344	51.0
BH-16A	7/11/22	1'	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<14.9	33.3	33.3	<14.9	33.3	9.54
BH-17	4/21/22	0.5'	<0.00200	0.00148	<0.00200	0.00504	0.00652	<50.0	<50.0	<50.0	<50.0	<50.0	7.20
BH-18	4/21/22	0.5'	<0.00201	0.00209	<0.00201	0.00693	0.00902	<50.0	<50.0	<50.0	<50.0	<50.0	29.8
BH-19	4/24/22	2-2.5	<0.00202	<0.00202	<0.00202	0.0148	0.0148	30.2	1,670	1,708	205	1,990	522
BH-19A	7/12/22	3	<0.0000768	<0.0000910	<0.000113	<0.000202	<0.000202	<15.0	<15.0	<15.0	<15.0	<15.0	24.8

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 Soils >100 feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg				
BH-20	4/20/22	0.5'	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	26.5	<50.0	26.5	33.7	60.2	4.92
<del>BH-21</del>	<del>4/26/22</del>	<del>0.5'</del>	<del>&lt;0.00200</del>	<del>&lt;0.00200</del>	<del>&lt;0.00200</del>	<del>&lt;0.00401</del>	<del>&lt;0.00401</del>	<del>26.4</del>	<del>139</del>	<del>159.4</del>	<del>35.4</del>	<del>195</del>	<del>6.70</del>
BH-21A	7/12/22	1	<0.0000775	<0.0000918	<0.000114	<0.000203	<0.000203	<15.0	25.6	25.6	<15.0	25.6	3.67
<del>BH-22</del>	<del>4/26/22</del>	<del>0.5'</del>	<del>&lt;0.00201</del>	<del>&lt;0.00201</del>	<del>&lt;0.00201</del>	<del>&lt;0.00402</del>	<del>&lt;0.00402</del>	<del>25.6</del>	<del>110</del>	<del>136</del>	<del>34.4</del>	<del>170</del>	<del>34.4</del>
BH-22A	7/12/22	1	<0.0000765	0.000245	<0.000112	<0.000201	<0.000201	<15.0	29.5	29.5	<15.0	29.5	9.93
<del>BH-23</del>	<del>4/26/22</del>	<del>0.5'</del>	<del>&lt;0.00201</del>	<del>0.00488</del>	<del>0.00436</del>	<del>0.0134</del>	<del>0.0167</del>	<del>&lt;50.0</del>	<del>709</del>	<del>709</del>	<del>128</del>	<del>637</del>	<del>26.6</del>
BH-23A	7/12/22	1	<0.0000768	<0.0000910	<0.000113	<0.000202	<0.000202	<15.0	26.0	26.0	<15.0	26.0	3.15
<del>BH-24</del>	<del>4/24/22</del>	<del>0.5'</del>	<del>&lt;0.00498</del>	<del>0.00663</del>	<del>&lt;0.00498</del>	<del>0.00237</del>	<del>0.00303</del>	<del>&lt;49.9</del>	<del>41.8</del>	<del>41.8</del>	<del>61.0</del>	<del>103</del>	<del>17.0</del>
BH-24A	7/12/22	1	<0.0000768	<0.0000910	<0.000113	<0.000202	<0.000202	<15.0	25.0	<15.0	<15.0	25.0	15.9
<del>BH-25</del>	<del>4/26/22</del>	<del>0.5'</del>	<del>&lt;0.00201</del>	<del>&lt;0.00201</del>	<del>&lt;0.00201</del>	<del>&lt;0.00402</del>	<del>&lt;0.00402</del>	<del>20.4</del>	<del>37.4</del>	<del>57.2</del>	<del>45.3</del>	<del>103</del>	<del>11.4</del>
BH-25A	7/12/22	1	<0.000386	0.00103	0.000592	0.00121	0.00121	<15.0	28.2	28.2	<15.0	28.2	5.30
<del>BH-26</del>	<del>4/26/22</del>	<del>0.5'</del>	<del>&lt;0.00200</del>	<del>&lt;0.00200</del>	<del>&lt;0.00200</del>	<del>&lt;0.00401</del>	<del>&lt;0.00401</del>	<del>19.4</del>	<del>136</del>	<del>154</del>	<del>43.7</del>	<del>198</del>	<del>14.2</del>
BH-26A	7/12/22	1	<0.000383	0.000646	<0.000563	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0	<15.0	5.70
BH-27	4/21/22	0.5'	<0.00200	<0.00200	<0.00200	0.00103	0.00103	<50.0	53.4	53.4	<50.0	53.4	3.78
<del>BH-28</del>	<del>4/26/22</del>	<del>0.5'</del>	<del>&lt;0.00200</del>	<del>0.00236</del>	<del>&lt;0.00200</del>	<del>0.00391</del>	<del>0.00627</del>	<del>25.0</del>	<del>64.6</del>	<del>110.5</del>	<del>39.0</del>	<del>150</del>	<del>13.4</del>
BH-28A	7/12/22	1	<0.000384	0.00343	0.00125	0.00188	0.00656	<15.0	27.5	27.5	<15.0	27.5	14.4
BH-29	4/22/22	4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	54.7	54.7	<50.0	54.7	92.9
<del>BH-30</del>	<del>4/24/22</del>	<del>1.5-2</del>	<del>&lt;0.00201</del>	<del>0.00472</del>	<del>&lt;0.00201</del>	<del>&lt;0.00402</del>	<del>0.00472</del>	<del>&lt;50.0</del>	<del>217</del>	<del>217</del>	<del>45.3</del>	<del>262</del>	<del>86.4</del>
BH-30A	7/12/22	3	0.000566	0.00421	0.00248	0.00366	0.0109	<15.0	25.1	25.1	<15.0	25.1	58.0
<del>BH-31</del>	<del>4/24/22</del>	<del>1.5-2</del>	<del>&lt;0.00202</del>	<del>0.00461</del>	<del>&lt;0.00202</del>	<del>&lt;0.00404</del>	<del>0.00461</del>	<del>&lt;49.9</del>	<del>780</del>	<del>780</del>	<del>120</del>	<del>900</del>	<del>360</del>
<del>BH-31A</del>	<del>7/19/22</del>	<del>3</del>	<del>&lt;0.000384</del>	<del>&lt;0.000455</del>	<del>&lt;0.000564</del>	<del>&lt;0.00401</del>	<del>&lt;0.00401</del>	<del>&lt;15.0</del>	<del>199</del>	<del>199</del>	<del>&lt;15.0</del>	<del>199</del>	<del>35.4</del>
<del>BH-31B</del>	<del>8/23/22</del>	<del>3.5</del>	<del>&lt;0.000384</del>	<del>&lt;0.000455</del>	<del>&lt;0.000564</del>	<del>&lt;0.00401</del>	<del>&lt;0.00401</del>	<del>44.9</del>	<del>&lt;15.0</del>	<del>44.9</del>	<del>41.4</del>	<del>86.0</del>	<del>1,080</del>
BH-31C	9/12/22	5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	875
BH-32-5'	4/25/2021	5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	24.8	24.8	<49.9	24.8	2,720
BH-32-6'	4/25/2021	6	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	16.4	22.5	38.9	<50.0	38.9	1,570
BH-32-7'	4/25/2021	7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	17.6	26.0	43.6	<49.9	43.6	722
BH-33-4'	4/25/2021	4	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	34.7	34.7	<50.0	34.7	2,290
BH-33-5'	4/25/2021	5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	20.6	20.6	<49.9	20.6	1,640
BH-33-6'	4/25/2021	6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	20.5	20.5	<50.0	20.5	536
BH-33-7'	4/25/2021	7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	22.3	22.3	<50.0	22.3	136
<del>BH-34</del>	<del>4/24/22</del>	<del>3</del>	<del>&lt;0.00200</del>	<del>0.000955</del>	<del>&lt;0.00200</del>	<del>&lt;0.00401</del>	<del>0.000955</del>	<del>&lt;49.9</del>	<del>592</del>	<del>592</del>	<del>119</del>	<del>711</del>	<del>143</del>
<del>BH-34A</del>	<del>7/19/22</del>	<del>3.5</del>	<del>&lt;0.000383</del>	<del>&lt;0.000453</del>	<del>&lt;0.000562</del>	<del>&lt;0.00400</del>	<del>&lt;0.00400</del>	<del>&lt;15.0</del>	<del>733</del>	<del>733</del>	<del>&lt;15.0</del>	<del>733</del>	<del>11,500</del>
BH-34B	8/23/22	4	<0.000386	0.000457	<0.000566	<0.00101	<0.00101	40.3	<15.0	40.3	37.0	77.3	80.9
BH-35	4/21/22	1.5-2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	<50.0	<50.0	44.5	44.5	5.43
BH-36	4/21/22	1.5-2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	4.35
BH-37	4/25/22	1.5-2	<0.00199	0.00188	0.00128	0.00725	0.01041	<49.9	19.4	19.4	<49.9	19.4	23.9
BH-38	4/25/22	1.5-2	<0.00200	0.00226	0.00201	0.0168	0.0211	<50.0	23.6	23.6	<50.0	23.6	18.4
BH-39	4/25/22	2-2.5	<0.00200	0.000480	<0.00200	<0.00401	<0.00401	<50.0	35.6	35.6	<50.0	35.6	21.1
BH-40	4/25/22	2-2.5	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	24.4	23.1	47.5	<50.0	47.5	5.10
BH-41	4/25/22	2-2.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	22.4	22.4	<49.9	22.4	4.74

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 Soils >100 feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---		1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg			
BH-42	4/26/22	1.5-2	<0.00200	0.00181	0.00184	0.00786	0.0115	42.5	28.7	71.2	<50.0	71.2	8.58
BH-43	4/27/22	1.5-2	<0.00199	0.000500	<0.00199	<0.00398	<0.00398	37.9	<50.0	37.9	<50.0	37.9	220
BH-44	4/27/22	1.5-2	<0.00200	0.000564	0.000735	<0.00399	0.00130	18.2	24.8	43.0	<50.0	43.0	38.9
BH-45	4/27/22	1.5-2	<0.00199	0.000559	0.000587	<0.00398	0.00115	28.3	17.5	45.8	<50.0	45.8	17.3
BH-46	4/27/22	2-2.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	52.8	52.8	<50.0	52.8	294
BH-47	4/27/22	2-2.5	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	16.4	<49.9	16.4	<49.9	16.4	6.81
Sidewall Confirmation Samples													
SW-1	4/24/22	Sidewall	<0.00199	0.000494	<0.00199	<0.00398	0.00424	<49.9	309.0	309	<49.9	309	596
SW-1A	7/13/22	Sidewall	<0.000386	0.00117	0.00138	0.0033	0.00585	<15.0	<15.0	<15.0	<15.0	<15.0	65.3
SW-2	4/24/22	Sidewall	0.0144	0.0396	0.0101	0.0560	0.146	<50.0	318	318	42.6	361	99.5
SW-2A	7/13/22	Sidewall	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	22.6	22.6	<15.0	22.6	9.92
SW-3	4/24/22	Sidewall	<0.00199	0.00569	0.0106	0.0667	0.0629	52.4	2,060	2,142	342	2,450	1,120
SW-3A	7/13/22	Sidewall	<0.000383	0.000539	<0.000562	<0.00100	<0.00100	<15.0	26.1	26.1	<15.0	26.1	245
SW-4	4/27/22	Sidewall	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	39.6	39.6	<49.9	39.6	626
SW-4A	7/13/22	Sidewall	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0	<15.0	4.68
SW-5	4/27/22	Sidewall	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	10.4
SW-6	4/27/22	Sidewall	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	2.38
SW-7	4/27/22	Sidewall	<0.00200	0.000683	<0.00200	0.00618	0.00686	<49.9	<49.9	<49.9	<49.9	<49.9	11.8
SW-8	4/27/22	Sidewall	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	591
SW-9	4/27/22	Sidewall	<0.00199	0.00349	<0.00199	0.00884	0.0123	<50.0	<50.0	<50.0	<50.0	<50.0	9.61
SW-10	4/27/22	Sidewall	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	120	120	<49.9	120	11.4
SW-10A	7/13/22	Sidewall	<0.000386	0.000457	<0.000566	<0.00101	<0.00101	<14.9	23.2	23.2	<14.9	23.2	19.6
SW-11	11/23/22	Sidewall	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	29.9	<15.0	29.9	<15.0	29.9	69.1

## Notes:

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

B-DH-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.

10. --- = not defined

**Table 2**  
**Daily Disposal Summary**  
**Romeo Federal 22 Battery 1**  
**Centennial Resources**  
**Eddy, County, New Mexico**

<b>Date of Disposal</b>	<b>Total Yards<sup>3</sup> Disposed</b>
4/20/2022	320
4/26/2022	360
8/3/2022	208
<b>Project Total</b>	<b>888</b>

# **Attachment A**

## **Laboratory Analytical Reports and Chain-of-Custody Documentation**



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-16810-1

Laboratory Sample Delivery Group: Lea County NM  
Client Project/Site: Romeo Federal 22 Battery 1  
Revision: 1

**For:**

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

Attn: Becky Haskell

A handwritten signature in black ink that reads "Debbie Simmons".

Authorized for release by:

7/22/2022 5:43:27 PM

Debbie Simmons, Project Manager  
(832)986-6768

[Debbie.Simmons@et.eurofinsus.com](mailto:Debbie.Simmons@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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: Romeo Federal 22 Battery 1

Laboratory Job ID: 880-16810-1  
SDG: Lea County NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

## 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, low 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.
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.
¤	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)

Eurofins Midland

Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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

## Case Narrative

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

**Job ID: 880-16810-1**

**Laboratory: Eurofins Midland**

### Narrative

#### Job Narrative 880-16810-1

### Comments

per phone conversation with Heath Boyd, all samples collected this week from Romeo Battery should include a A after the ID

### Revision

The report being provided is a revision of the original report sent on 7/19/2022. The report (revision 1) is being revised due to: per Becky Haskell sample ID should be BH-9A instead of BH-8A for sample 880-16810-6.

### Receipt

The samples were received on 7/12/2022 11:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-29773 and analytical batch 880-29894 was outside control limits. Sample matrix interference is suspected.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-11A (880-16810-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

### GC Semi VOA

Method 8015B NM: The method blank for preparation batch 880-29622 and analytical batch 880-29609 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) 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 8015B NM: CCV biased low for gasoline range hydrocarbons, however an acceptable CCV was analyzed within the 12 hour window, therefore data was qualified and reported.

(CCV 880-29609/46)

Method 8015B NM: The method blank for preparation batch 880-29672 and analytical batch 880-29692 contained Gasoline Range Organics (GRO)-C6-C10 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 880-29572 and analytical batch 880-29761 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.

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-29660 and analytical batch 880-29862 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.

Case Narrative

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Job ID: 880-16810-1 (Continued)

Laboratory: Eurofins Midland (Continued)

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-3A

Lab Sample ID: 880-16810-1

Date Collected: 07/11/22 10:30

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00256		0.00201	0.000387	mg/Kg		07/14/22 16:44	07/18/22 12:48	1
Toluene	0.00205	F1	0.00201	0.000459	mg/Kg		07/14/22 16:44	07/18/22 12:48	1
Ethylbenzene	0.00345	F1	0.00201	0.000568	mg/Kg		07/14/22 16:44	07/18/22 12:48	1
m-Xylene & p-Xylene	0.0135	F1 F2	0.00402	0.00102	mg/Kg		07/14/22 16:44	07/18/22 12:48	1
o-Xylene	0.00687	F1 F2	0.00201	0.000346	mg/Kg		07/14/22 16:44	07/18/22 12:48	1
Xylenes, Total	0.0204	F1 F2	0.00402	0.00102	mg/Kg		07/14/22 16:44	07/18/22 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/14/22 16:44	07/18/22 12:48	1
1,4-Difluorobenzene (Surr)	107		70 - 130	07/14/22 16:44	07/18/22 12:48	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0284		0.00402	0.00102	mg/Kg			07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	106		49.9	15.0	mg/Kg			07/14/22 09:34	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	30.9	J B	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 15:38	1
Diesel Range Organics (Over C10-C28)	18.3	J B	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 15:38	1
Oil Range Organics (Over C28-C36)	56.6		49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	07/13/22 09:24	07/13/22 15:38	1
o-Terphenyl	111		70 - 130	07/13/22 09:24	07/13/22 15:38	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.5		5.00	0.858	mg/Kg			07/15/22 14:51	1

Client Sample ID: BH-4A

Lab Sample ID: 880-16810-2

Date Collected: 07/11/22 10:40

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		07/14/22 16:44	07/18/22 13:09	1
Toluene	0.000768	J	0.00200	0.000455	mg/Kg		07/14/22 16:44	07/18/22 13:09	1
Ethylbenzene	0.000705	J	0.00200	0.000564	mg/Kg		07/14/22 16:44	07/18/22 13:09	1
m-Xylene & p-Xylene	0.00170	J	0.00399	0.00101	mg/Kg		07/14/22 16:44	07/18/22 13:09	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		07/14/22 16:44	07/18/22 13:09	1
Xylenes, Total	0.00170	J	0.00399	0.00101	mg/Kg		07/14/22 16:44	07/18/22 13:09	1

Eurofins Midland

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-4A

Lab Sample ID: 880-16810-2

Date Collected: 07/11/22 10:40

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/14/22 16:44	07/18/22 13:09	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/14/22 16:44	07/18/22 13:09	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00317	J	0.00399	0.00101	mg/Kg			07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	87.5		50.0	15.0	mg/Kg			07/14/22 09:34	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	20.1	J B	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 15:59	1
Diesel Range Organics (Over C10-C28)	18.6	J B	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 15:59	1
Oil Range Organics (Over C28-C36)	48.8	J	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	07/13/22 09:24	07/13/22 15:59	1
o-Terphenyl	98		70 - 130	07/13/22 09:24	07/13/22 15:59	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.08	F1	4.99	0.857	mg/Kg			07/15/22 15:00	1

Client Sample ID: BH-5A

Lab Sample ID: 880-16810-3

Date Collected: 07/11/22 10:50

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000605	J	0.00199	0.000383	mg/Kg		07/14/22 16:44	07/18/22 13:29	1
Toluene	0.00132	J	0.00199	0.000453	mg/Kg		07/14/22 16:44	07/18/22 13:29	1
Ethylbenzene	0.000682	J	0.00199	0.000562	mg/Kg		07/14/22 16:44	07/18/22 13:29	1
m-Xylene & p-Xylene	0.00115	J	0.00398	0.00100	mg/Kg		07/14/22 16:44	07/18/22 13:29	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		07/14/22 16:44	07/18/22 13:29	1
Xylenes, Total	0.00115	J	0.00398	0.00100	mg/Kg		07/14/22 16:44	07/18/22 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/14/22 16:44	07/18/22 13:29	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/14/22 16:44	07/18/22 13:29	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00376	J	0.00398	0.00100	mg/Kg			07/19/22 09:21	1

Eurofins Midland

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-5A

Lab Sample ID: 880-16810-3

Date Collected: 07/11/22 10:50

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.5		49.9	15.0	mg/Kg			07/14/22 09:34	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	18.7	J B	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 16:42	1
Diesel Range Organics (Over C10-C28)	18.8	J B	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 16:42	1
Oil Range Organics (Over C28-C36)	45.0	J	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/13/22 09:24	07/13/22 16:42	1
o-Terphenyl	92		70 - 130				07/13/22 09:24	07/13/22 16:42	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.40		5.00	0.858	mg/Kg			07/15/22 15:28	1

Client Sample ID: BH-6A

Lab Sample ID: 880-16810-4

Date Collected: 07/11/22 11:00

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		07/14/22 16:44	07/18/22 13:49	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		07/14/22 16:44	07/18/22 13:49	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		07/14/22 16:44	07/18/22 13:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		07/14/22 16:44	07/18/22 13:49	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		07/14/22 16:44	07/18/22 13:49	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		07/14/22 16:44	07/18/22 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				07/14/22 16:44	07/18/22 13:49	1
1,4-Difluorobenzene (Surr)	103		70 - 130				07/14/22 16:44	07/18/22 13:49	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.7		50.0	15.0	mg/Kg			07/14/22 09:34	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 B	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 17:03	1
Diesel Range Organics (Over C10-C28)	17.7	J B	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 17:03	1

Eurofins Midland

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

## Client Sample ID: BH-6A

Date Collected: 07/11/22 11:00

Date Received: 07/12/22 11:15

Sample Depth: 1'

## Lab Sample ID: 880-16810-4

Matrix: Solid

## 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)	41.3	J	50.0	15.0	mg/Kg	-	07/13/22 09:24	07/13/22 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/13/22 09:24	07/13/22 17:03	1
o-Terphenyl	95		70 - 130				07/13/22 09:24	07/13/22 17:03	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		4.97	0.853	mg/Kg	-		07/15/22 15:37	1

## Client Sample ID: BH-7A

Date Collected: 07/11/22 11:10

Date Received: 07/12/22 11:15

Sample Depth: 1'

## Lab Sample ID: 880-16810-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg	-	07/14/22 16:44	07/18/22 14:10	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg	-	07/14/22 16:44	07/18/22 14:10	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg	-	07/14/22 16:44	07/18/22 14:10	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg	-	07/14/22 16:44	07/18/22 14:10	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg	-	07/14/22 16:44	07/18/22 14:10	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg	-	07/14/22 16:44	07/18/22 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				07/14/22 16:44	07/18/22 14:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/14/22 16:44	07/18/22 14:10	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg	-		07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	123		49.9	15.0	mg/Kg	-		07/14/22 09:34	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	33.1	J B	49.9	15.0	mg/Kg	-	07/13/22 09:24	07/13/22 17:24	1
Diesel Range Organics (Over C10-C28)	40.4	J B	49.9	15.0	mg/Kg	-	07/13/22 09:24	07/13/22 17:24	1
Oil Range Organics (Over C28-C36)	49.1	J	49.9	15.0	mg/Kg	-	07/13/22 09:24	07/13/22 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				07/13/22 09:24	07/13/22 17:24	1
o-Terphenyl	101		70 - 130				07/13/22 09:24	07/13/22 17:24	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

## Client Sample ID: BH-7A

Date Collected: 07/11/22 11:10

Date Received: 07/12/22 11:15

Sample Depth: 1'

## Lab Sample ID: 880-16810-5

Matrix: Solid

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		4.95	0.850	mg/Kg			07/15/22 16:05	1

## Client Sample ID: BH-9A

Date Collected: 07/11/22 11:20

Date Received: 07/12/22 11:15

Sample Depth: 1'

## Lab Sample ID: 880-16810-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		07/14/22 16:44	07/18/22 14:30	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		07/14/22 16:44	07/18/22 14:30	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		07/14/22 16:44	07/18/22 14:30	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		07/14/22 16:44	07/18/22 14:30	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		07/14/22 16:44	07/18/22 14:30	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		07/14/22 16:44	07/18/22 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				07/14/22 16:44	07/18/22 14:30	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/14/22 16:44	07/18/22 14:30	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.7		49.9	15.0	mg/Kg			07/14/22 09:34	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	20.1	J B	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 17:46	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 17:46	1
Oil Range Organics (Over C28-C36)	42.6	J	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				07/13/22 09:24	07/13/22 17:46	1
o-Terphenyl	91		70 - 130				07/13/22 09:24	07/13/22 17:46	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.25		5.01	0.860	mg/Kg			07/15/22 16:14	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-10A

Lab Sample ID: 880-16810-7

Date Collected: 07/11/22 11:30

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		07/14/22 16:44	07/18/22 14:51	1
<b>Toluene</b>	<b>0.000563</b>	<b>J</b>	0.00200	0.000457	mg/Kg		07/14/22 16:44	07/18/22 14:51	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		07/14/22 16:44	07/18/22 14:51	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		07/14/22 16:44	07/18/22 14:51	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		07/14/22 16:44	07/18/22 14:51	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		07/14/22 16:44	07/18/22 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	07/14/22 16:44	07/18/22 14:51	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/14/22 16:44	07/18/22 14:51	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total TPH</b>	<b>64.5</b>		50.0	15.0	mg/Kg			07/14/22 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO)-C6-C10</b>	<b>21.4</b>	<b>J B</b>	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 18:07	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 18:07	1
<b>Oil Range Organics (Over C28-C36)</b>	<b>43.1</b>	<b>J</b>	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	07/13/22 09:24	07/13/22 18:07	1
o-Terphenyl	98		70 - 130	07/13/22 09:24	07/13/22 18:07	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>4.11</b>	<b>J F1</b>	5.00	0.858	mg/Kg			07/16/22 15:21	1

Client Sample ID: BH-11A

Lab Sample ID: 880-16810-8

Date Collected: 07/11/22 11:40

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		07/14/22 16:44	07/18/22 15:11	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		07/14/22 16:44	07/18/22 15:11	1
<b>Ethylbenzene</b>	<b>0.000638</b>	<b>J</b>	0.00201	0.000567	mg/Kg		07/14/22 16:44	07/18/22 15:11	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		07/14/22 16:44	07/18/22 15:11	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		07/14/22 16:44	07/18/22 15:11	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		07/14/22 16:44	07/18/22 15:11	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-11A

Lab Sample ID: 880-16810-8

Date Collected: 07/11/22 11:40

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	50	S1-	70 - 130	07/14/22 16:44	07/18/22 15:11	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/14/22 16:44	07/18/22 15:11	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg	-		07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.1		50.0	15.0	mg/Kg	-		07/14/22 09:34	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	18.3	J B	50.0	15.0	mg/Kg	-	07/13/22 09:24	07/13/22 18:28	1
Diesel Range Organics (Over C10-C28)	17.7	J B	50.0	15.0	mg/Kg	-	07/13/22 09:24	07/13/22 18:28	1
Oil Range Organics (Over C28-C36)	40.1	J	50.0	15.0	mg/Kg	-	07/13/22 09:24	07/13/22 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	07/13/22 09:24	07/13/22 18:28	1
o-Terphenyl	92		70 - 130	07/13/22 09:24	07/13/22 18:28	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.66		4.99	0.857	mg/Kg	-		07/16/22 15:48	1

Client Sample ID: BH-12A

Lab Sample ID: 880-16810-9

Date Collected: 07/11/22 11:50

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg	-	07/14/22 16:44	07/18/22 15:32	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg	-	07/14/22 16:44	07/18/22 15:32	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg	-	07/14/22 16:44	07/18/22 15:32	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg	-	07/14/22 16:44	07/18/22 15:32	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg	-	07/14/22 16:44	07/18/22 15:32	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg	-	07/14/22 16:44	07/18/22 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	07/14/22 16:44	07/18/22 15:32	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/14/22 16:44	07/18/22 15:32	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg	-		07/19/22 09:21	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-12A

Lab Sample ID: 880-16810-9

Date Collected: 07/11/22 11:50

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.3		50.0	15.0	mg/Kg			07/14/22 09:34	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	24.0	J B	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 18:49	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 18:49	1
Oil Range Organics (Over C28-C36)	41.3	J	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				07/13/22 09:24	07/13/22 18:49	1
o-Terphenyl	96		70 - 130				07/13/22 09:24	07/13/22 18:49	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.82		4.97	0.853	mg/Kg			07/16/22 15:57	1

Client Sample ID: BH-13A

Lab Sample ID: 880-16810-10

Date Collected: 07/11/22 12:00

Matrix: Solid

Date Received: 07/12/22 11:15

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		07/14/22 16:44	07/18/22 15:52	1
Toluene	0.00143	J	0.00200	0.000455	mg/Kg		07/14/22 16:44	07/18/22 15:52	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		07/14/22 16:44	07/18/22 15:52	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		07/14/22 16:44	07/18/22 15:52	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		07/14/22 16:44	07/18/22 15:52	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		07/14/22 16:44	07/18/22 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				07/14/22 16:44	07/18/22 15:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/14/22 16:44	07/18/22 15:52	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00143	J	0.00399	0.00101	mg/Kg			07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.5		49.9	15.0	mg/Kg			07/14/22 09:34	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	20.5	J B	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 19:10	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 19:10	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

## Client Sample ID: BH-13A

Date Collected: 07/11/22 12:00

Date Received: 07/12/22 11:15

Sample Depth: 1'

## Lab Sample ID: 880-16810-10

Matrix: Solid

## 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)	46.0	J	49.9	15.0	mg/Kg		07/13/22 09:24	07/13/22 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/13/22 09:24	07/13/22 19:10	1
o-Terphenyl	97		70 - 130				07/13/22 09:24	07/13/22 19:10	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.46		4.99	0.857	mg/Kg			07/16/22 16:07	1

## Client Sample ID: BH-14A

Date Collected: 07/11/22 00:00

Date Received: 07/12/22 11:15

## Lab Sample ID: 880-16810-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000459	J	0.00199	0.000383	mg/Kg		07/14/22 16:44	07/18/22 17:45	1
Toluene	0.000646	J	0.00199	0.000453	mg/Kg		07/14/22 16:44	07/18/22 17:45	1
Ethylbenzene	0.000642	J	0.00199	0.000562	mg/Kg		07/14/22 16:44	07/18/22 17:45	1
m-Xylene & p-Xylene	0.00115	J	0.00398	0.00100	mg/Kg		07/14/22 16:44	07/18/22 17:45	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		07/14/22 16:44	07/18/22 17:45	1
Xylenes, Total	0.00115	J	0.00398	0.00100	mg/Kg		07/14/22 16:44	07/18/22 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/14/22 16:44	07/18/22 17:45	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/14/22 16:44	07/18/22 17:45	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00290	J	0.00398	0.00100	mg/Kg			07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.7		50.0	15.0	mg/Kg			07/14/22 09:34	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	21.5	J B	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 19:31	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 19:31	1
Oil Range Organics (Over C28-C36)	37.2	J	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/13/22 09:24	07/13/22 19:31	1
o-Terphenyl	94		70 - 130				07/13/22 09:24	07/13/22 19:31	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.14		5.00	0.858	mg/Kg			07/16/22 16:47	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-15A

Lab Sample ID: 880-16810-12

Date Collected: 07/11/22 00:00

Matrix: Solid

Date Received: 07/12/22 11:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		07/14/22 16:44	07/18/22 18:05	1
<b>Toluene</b>	<b>0.00267</b>		0.00200	0.000455	mg/Kg		07/14/22 16:44	07/18/22 18:05	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		07/14/22 16:44	07/18/22 18:05	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.00297</b>	<b>J</b>	0.00399	0.00101	mg/Kg		07/14/22 16:44	07/18/22 18:05	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		07/14/22 16:44	07/18/22 18:05	1
<b>Xylenes, Total</b>	<b>0.00297</b>	<b>J</b>	0.00399	0.00101	mg/Kg		07/14/22 16:44	07/18/22 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/14/22 16:44	07/18/22 18:05	1
1,4-Difluorobenzene (Surr)	104		70 - 130	07/14/22 16:44	07/18/22 18:05	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total BTEX</b>	<b>0.00564</b>		0.00399	0.00101	mg/Kg			07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total TPH</b>	<b>74.8</b>		50.0	15.0	mg/Kg			07/14/22 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO)-C6-C10</b>	<b>23.9</b>	<b>J B</b>	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 19:52	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>15.0</b>	<b>J B</b>	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 19:52	1
<b>Oil Range Organics (Over C28-C36)</b>	<b>35.9</b>	<b>J</b>	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	07/13/22 09:24	07/13/22 19:52	1
o-Terphenyl	93		70 - 130	07/13/22 09:24	07/13/22 19:52	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>11.0</b>		4.99	0.857	mg/Kg			07/16/22 17:15	1

Client Sample ID: BH-16A

Lab Sample ID: 880-16810-13

Date Collected: 07/11/22 00:00

Matrix: Solid

Date Received: 07/12/22 11:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		07/14/22 16:44	07/18/22 18:26	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		07/14/22 16:44	07/18/22 18:26	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		07/14/22 16:44	07/18/22 18:26	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		07/14/22 16:44	07/18/22 18:26	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		07/14/22 16:44	07/18/22 18:26	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		07/14/22 16:44	07/18/22 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	07/14/22 16:44	07/18/22 18:26	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/14/22 16:44	07/18/22 18:26	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-16A

Lab Sample ID: 880-16810-13

Date Collected: 07/11/22 00:00

Matrix: Solid

Date Received: 07/12/22 11:15

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			07/19/22 09:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.3	J	49.8	14.9	mg/Kg			07/14/22 09:34	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	<14.9	U	49.8	14.9	mg/Kg		07/13/22 15:06	07/14/22 18:05	1
Diesel Range Organics (Over C10-C28)	33.3	J	49.8	14.9	mg/Kg		07/13/22 15:06	07/14/22 18:05	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		07/13/22 15:06	07/14/22 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				07/13/22 15:06	07/14/22 18:05	1
o-Terphenyl	80		70 - 130				07/13/22 15:06	07/14/22 18:05	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.54		5.04	0.865	mg/Kg			07/16/22 17:24	1

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## Surrogate Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-16810-1	BH-3A	115	107
880-16810-1 MS	BH-3A	113	92
880-16810-1 MSD	BH-3A	87	96
880-16810-2	BH-4A	104	93
880-16810-3	BH-5A	97	99
880-16810-4	BH-6A	115	103
880-16810-5	BH-7A	112	95
880-16810-6	BH-9A	110	95
880-16810-7	BH-10A	94	94
880-16810-8	BH-11A	50 S1-	95
880-16810-9	BH-12A	114	95
880-16810-10	BH-13A	98	98
880-16810-11	BH-14A	107	96
880-16810-12	BH-15A	92	104
880-16810-13	BH-16A	108	92
LCS 880-29773/1-A	Lab Control Sample	106	100
LCSD 880-29773/2-A	Lab Control Sample Dup	106	96
MB 880-29773/5-A	Method Blank	97	96
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-16810-1	BH-3A	98	111
880-16810-2	BH-4A	85	98
880-16810-3	BH-5A	83	92
880-16810-4	BH-6A	84	95
880-16810-5	BH-7A	94	101
880-16810-6	BH-9A	82	91
880-16810-7	BH-10A	86	98
880-16810-8	BH-11A	81	92
880-16810-9	BH-12A	87	96
880-16810-10	BH-13A	86	97
880-16810-11	BH-14A	85	94
880-16810-12	BH-15A	83	93
880-16810-13	BH-16A	67 S1-	80
LCS 880-29622/2-A	Lab Control Sample	100	117
LCS 880-29672/2-A	Lab Control Sample	97	110
LCSD 880-29622/3-A	Lab Control Sample Dup	108	125
LCSD 880-29672/3-A	Lab Control Sample Dup	113	126
MB 880-29622/1-A	Method Blank	87	113
MB 880-29672/1-A	Method Blank	88	102
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			

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Surrogate Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1  
OTPH = o-Terphenyl

Job ID: 880-16810-1  
SDG: Lea County NM

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

## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

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

Lab Sample ID: MB 880-29773/5-A

Matrix: Solid

Analysis Batch: 29894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/14/22 16:44	07/18/22 12:19	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/14/22 16:44	07/18/22 12:19	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/14/22 16:44	07/18/22 12:19	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/14/22 16:44	07/18/22 12:19	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/14/22 16:44	07/18/22 12:19	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/14/22 16:44	07/18/22 12:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/14/22 16:44	07/18/22 12:19	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/14/22 16:44	07/18/22 12:19	1

Lab Sample ID: LCS 880-29773/1-A

Matrix: Solid

Analysis Batch: 29894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09535		mg/Kg		95	70 - 130
Toluene	0.100	0.09420		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09196		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1938		mg/Kg		97	70 - 130
o-Xylene	0.100	0.1030		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-29773/2-A

Matrix: Solid

Analysis Batch: 29894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29773

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08621		mg/Kg		86	70 - 130	10	35
Toluene	0.100	0.09273		mg/Kg		93	70 - 130	2	35
Ethylbenzene	0.100	0.09255		mg/Kg		93	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130	2	35
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-16810-1 MS

Matrix: Solid

Analysis Batch: 29894

Client Sample ID: BH-3A

Prep Type: Total/NA

Prep Batch: 29773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00256		0.100	0.07776		mg/Kg		75	70 - 130
Toluene	0.00205	F1	0.100	0.08486		mg/Kg		82	70 - 130

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

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

Lab Sample ID: 880-16810-1 MS

Matrix: Solid

Analysis Batch: 29894

Client Sample ID: BH-3A

Prep Type: Total/NA

Prep Batch: 29773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00345	F1	0.100	0.08141		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.0135	F1 F2	0.201	0.1739		mg/Kg		80	70 - 130
o-Xylene	0.00687	F1 F2	0.100	0.09279		mg/Kg		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-16810-1 MSD

Matrix: Solid

Analysis Batch: 29894

Client Sample ID: BH-3A

Prep Type: Total/NA

Prep Batch: 29773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.00256		0.0994	0.07907		mg/Kg		77	70 - 130	2	35
Toluene	0.00205	F1	0.0994	0.06554	F1	mg/Kg		64	70 - 130	26	35
Ethylbenzene	0.00345	F1	0.0994	0.05957	F1	mg/Kg		56	70 - 130	31	35
m-Xylene & p-Xylene	0.0135	F1 F2	0.199	0.1176	F1 F2	mg/Kg		52	70 - 130	39	35
o-Xylene	0.00687	F1 F2	0.0994	0.06403	F1 F2	mg/Kg		58	70 - 130	37	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-29622/1-A

Matrix: Solid

Analysis Batch: 29609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.22	J	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 11:02	1
Diesel Range Organics (Over C10-C28)	20.90	J	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 11:02	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/13/22 09:24	07/13/22 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/13/22 09:24	07/13/22 11:02	1
o-Terphenyl	113		70 - 130	07/13/22 09:24	07/13/22 11:02	1

Lab Sample ID: LCS 880-29622/2-A

Matrix: Solid

Analysis Batch: 29609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	846.2		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1044		mg/Kg		104	70 - 130

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

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

Lab Sample ID: LCS 880-29622/2-A

Matrix: Solid

Analysis Batch: 29609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29622

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: LCSD 880-29622/3-A

Matrix: Solid

Analysis Batch: 29609

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29622

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	776.1		mg/Kg		78	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1129		mg/Kg		113	70 - 130	8	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: MB 880-29672/1-A

Matrix: Solid

Analysis Batch: 29692

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.99	J	50.0	15.0	mg/Kg		07/13/22 15:06	07/14/22 09:52	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/13/22 15:06	07/14/22 09:52	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/13/22 15:06	07/14/22 09:52	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	88		70 - 130	07/13/22 15:06	07/14/22 09:52	1
o-Terphenyl	102		70 - 130	07/13/22 15:06	07/14/22 09:52	1

Lab Sample ID: LCS 880-29672/2-A

Matrix: Solid

Analysis Batch: 29692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29672

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	989.6		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	865.7		mg/Kg		87	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	110		70 - 130

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-29672/3-A

Matrix: Solid

Analysis Batch: 29692

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29672

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1004		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1051		mg/Kg		105	70 - 130	19	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	113		70 - 130						
o-Terphenyl	126		70 - 130						

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29572/1-A

Matrix: Solid

Analysis Batch: 29761

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			07/15/22 12:24	1

Lab Sample ID: LCS 880-29572/2-A

Matrix: Solid

Analysis Batch: 29761

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	266.6		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-29572/3-A

Matrix: Solid

Analysis Batch: 29761

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	267.0		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-16810-2 MS

Matrix: Solid

Analysis Batch: 29761

Client Sample ID: BH-4A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	9.08	F1	250	287.0	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-16810-2 MSD

Matrix: Solid

Analysis Batch: 29761

Client Sample ID: BH-4A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.08	F1	250	287.6	F1	mg/Kg		112	90 - 110	0	20

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-29660/1-A

Matrix: Solid

Analysis Batch: 29862

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			07/16/22 14:53	1

Lab Sample ID: LCS 880-29660/2-A

Matrix: Solid

Analysis Batch: 29862

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.9		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-29660/3-A

Matrix: Solid

Analysis Batch: 29862

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	264.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-16810-7 MS

Matrix: Solid

Analysis Batch: 29862

Client Sample ID: BH-10A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.11	J F1	250	287.0	F1	mg/Kg		113	90 - 110

Lab Sample ID: 880-16810-7 MSD

Matrix: Solid

Analysis Batch: 29862

Client Sample ID: BH-10A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.11	J F1	250	289.5	F1	mg/Kg		114	90 - 110	1	20

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

## GC VOA

## Prep Batch: 29773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-1	BH-3A	Total/NA	Solid	5035	
880-16810-2	BH-4A	Total/NA	Solid	5035	
880-16810-3	BH-5A	Total/NA	Solid	5035	
880-16810-4	BH-6A	Total/NA	Solid	5035	
880-16810-5	BH-7A	Total/NA	Solid	5035	
880-16810-6	BH-9A	Total/NA	Solid	5035	
880-16810-7	BH-10A	Total/NA	Solid	5035	
880-16810-8	BH-11A	Total/NA	Solid	5035	
880-16810-9	BH-12A	Total/NA	Solid	5035	
880-16810-10	BH-13A	Total/NA	Solid	5035	
880-16810-11	BH-14A	Total/NA	Solid	5035	
880-16810-12	BH-15A	Total/NA	Solid	5035	
880-16810-13	BH-16A	Total/NA	Solid	5035	
MB 880-29773/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29773/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29773/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16810-1 MS	BH-3A	Total/NA	Solid	5035	
880-16810-1 MSD	BH-3A	Total/NA	Solid	5035	

## Analysis Batch: 29894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-1	BH-3A	Total/NA	Solid	8021B	29773
880-16810-2	BH-4A	Total/NA	Solid	8021B	29773
880-16810-3	BH-5A	Total/NA	Solid	8021B	29773
880-16810-4	BH-6A	Total/NA	Solid	8021B	29773
880-16810-5	BH-7A	Total/NA	Solid	8021B	29773
880-16810-6	BH-9A	Total/NA	Solid	8021B	29773
880-16810-7	BH-10A	Total/NA	Solid	8021B	29773
880-16810-8	BH-11A	Total/NA	Solid	8021B	29773
880-16810-9	BH-12A	Total/NA	Solid	8021B	29773
880-16810-10	BH-13A	Total/NA	Solid	8021B	29773
880-16810-11	BH-14A	Total/NA	Solid	8021B	29773
880-16810-12	BH-15A	Total/NA	Solid	8021B	29773
880-16810-13	BH-16A	Total/NA	Solid	8021B	29773
MB 880-29773/5-A	Method Blank	Total/NA	Solid	8021B	29773
LCS 880-29773/1-A	Lab Control Sample	Total/NA	Solid	8021B	29773
LCSD 880-29773/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29773
880-16810-1 MS	BH-3A	Total/NA	Solid	8021B	29773
880-16810-1 MSD	BH-3A	Total/NA	Solid	8021B	29773

## Analysis Batch: 30031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-1	BH-3A	Total/NA	Solid	Total BTEX	
880-16810-2	BH-4A	Total/NA	Solid	Total BTEX	
880-16810-3	BH-5A	Total/NA	Solid	Total BTEX	
880-16810-4	BH-6A	Total/NA	Solid	Total BTEX	
880-16810-5	BH-7A	Total/NA	Solid	Total BTEX	
880-16810-6	BH-9A	Total/NA	Solid	Total BTEX	
880-16810-7	BH-10A	Total/NA	Solid	Total BTEX	
880-16810-8	BH-11A	Total/NA	Solid	Total BTEX	
880-16810-9	BH-12A	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

## GC VOA (Continued)

## Analysis Batch: 30031 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-10	BH-13A	Total/NA	Solid	Total BTEX	
880-16810-11	BH-14A	Total/NA	Solid	Total BTEX	
880-16810-12	BH-15A	Total/NA	Solid	Total BTEX	
880-16810-13	BH-16A	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 29609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-1	BH-3A	Total/NA	Solid	8015B NM	29622
880-16810-2	BH-4A	Total/NA	Solid	8015B NM	29622
880-16810-3	BH-5A	Total/NA	Solid	8015B NM	29622
880-16810-4	BH-6A	Total/NA	Solid	8015B NM	29622
880-16810-5	BH-7A	Total/NA	Solid	8015B NM	29622
880-16810-6	BH-9A	Total/NA	Solid	8015B NM	29622
880-16810-7	BH-10A	Total/NA	Solid	8015B NM	29622
880-16810-8	BH-11A	Total/NA	Solid	8015B NM	29622
880-16810-9	BH-12A	Total/NA	Solid	8015B NM	29622
880-16810-10	BH-13A	Total/NA	Solid	8015B NM	29622
880-16810-11	BH-14A	Total/NA	Solid	8015B NM	29622
880-16810-12	BH-15A	Total/NA	Solid	8015B NM	29622
MB 880-29622/1-A	Method Blank	Total/NA	Solid	8015B NM	29622
LCS 880-29622/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29622
LCSD 880-29622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29622

## Prep Batch: 29622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-1	BH-3A	Total/NA	Solid	8015NM Prep	
880-16810-2	BH-4A	Total/NA	Solid	8015NM Prep	
880-16810-3	BH-5A	Total/NA	Solid	8015NM Prep	
880-16810-4	BH-6A	Total/NA	Solid	8015NM Prep	
880-16810-5	BH-7A	Total/NA	Solid	8015NM Prep	
880-16810-6	BH-9A	Total/NA	Solid	8015NM Prep	
880-16810-7	BH-10A	Total/NA	Solid	8015NM Prep	
880-16810-8	BH-11A	Total/NA	Solid	8015NM Prep	
880-16810-9	BH-12A	Total/NA	Solid	8015NM Prep	
880-16810-10	BH-13A	Total/NA	Solid	8015NM Prep	
880-16810-11	BH-14A	Total/NA	Solid	8015NM Prep	
880-16810-12	BH-15A	Total/NA	Solid	8015NM Prep	
MB 880-29622/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29622/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Prep Batch: 29672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-13	BH-16A	Total/NA	Solid	8015NM Prep	
MB 880-29672/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29672/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29672/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

## GC Semi VOA

## Analysis Batch: 29692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-13	BH-16A	Total/NA	Solid	8015B NM	29672
MB 880-29672/1-A	Method Blank	Total/NA	Solid	8015B NM	29672
LCS 880-29672/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29672
LCSD 880-29672/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29672

## Analysis Batch: 29712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-1	BH-3A	Total/NA	Solid	8015 NM	
880-16810-2	BH-4A	Total/NA	Solid	8015 NM	
880-16810-3	BH-5A	Total/NA	Solid	8015 NM	
880-16810-4	BH-6A	Total/NA	Solid	8015 NM	
880-16810-5	BH-7A	Total/NA	Solid	8015 NM	
880-16810-6	BH-9A	Total/NA	Solid	8015 NM	
880-16810-7	BH-10A	Total/NA	Solid	8015 NM	
880-16810-8	BH-11A	Total/NA	Solid	8015 NM	
880-16810-9	BH-12A	Total/NA	Solid	8015 NM	
880-16810-10	BH-13A	Total/NA	Solid	8015 NM	
880-16810-11	BH-14A	Total/NA	Solid	8015 NM	
880-16810-12	BH-15A	Total/NA	Solid	8015 NM	
880-16810-13	BH-16A	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 29572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-1	BH-3A	Soluble	Solid	DI Leach	
880-16810-2	BH-4A	Soluble	Solid	DI Leach	
880-16810-3	BH-5A	Soluble	Solid	DI Leach	
880-16810-4	BH-6A	Soluble	Solid	DI Leach	
880-16810-5	BH-7A	Soluble	Solid	DI Leach	
880-16810-6	BH-9A	Soluble	Solid	DI Leach	
MB 880-29572/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29572/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29572/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16810-2 MS	BH-4A	Soluble	Solid	DI Leach	
880-16810-2 MSD	BH-4A	Soluble	Solid	DI Leach	

## Leach Batch: 29660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-7	BH-10A	Soluble	Solid	DI Leach	
880-16810-8	BH-11A	Soluble	Solid	DI Leach	
880-16810-9	BH-12A	Soluble	Solid	DI Leach	
880-16810-10	BH-13A	Soluble	Solid	DI Leach	
880-16810-11	BH-14A	Soluble	Solid	DI Leach	
880-16810-12	BH-15A	Soluble	Solid	DI Leach	
880-16810-13	BH-16A	Soluble	Solid	DI Leach	
MB 880-29660/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29660/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29660/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16810-7 MS	BH-10A	Soluble	Solid	DI Leach	
880-16810-7 MSD	BH-10A	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

## HPLC/IC

## Analysis Batch: 29761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-1	BH-3A	Soluble	Solid	300.0	29572
880-16810-2	BH-4A	Soluble	Solid	300.0	29572
880-16810-3	BH-5A	Soluble	Solid	300.0	29572
880-16810-4	BH-6A	Soluble	Solid	300.0	29572
880-16810-5	BH-7A	Soluble	Solid	300.0	29572
880-16810-6	BH-9A	Soluble	Solid	300.0	29572
MB 880-29572/1-A	Method Blank	Soluble	Solid	300.0	29572
LCS 880-29572/2-A	Lab Control Sample	Soluble	Solid	300.0	29572
LCSD 880-29572/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29572
880-16810-2 MS	BH-4A	Soluble	Solid	300.0	29572
880-16810-2 MSD	BH-4A	Soluble	Solid	300.0	29572

## Analysis Batch: 29862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16810-7	BH-10A	Soluble	Solid	300.0	29660
880-16810-8	BH-11A	Soluble	Solid	300.0	29660
880-16810-9	BH-12A	Soluble	Solid	300.0	29660
880-16810-10	BH-13A	Soluble	Solid	300.0	29660
880-16810-11	BH-14A	Soluble	Solid	300.0	29660
880-16810-12	BH-15A	Soluble	Solid	300.0	29660
880-16810-13	BH-16A	Soluble	Solid	300.0	29660
MB 880-29660/1-A	Method Blank	Soluble	Solid	300.0	29660
LCS 880-29660/2-A	Lab Control Sample	Soluble	Solid	300.0	29660
LCSD 880-29660/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29660
880-16810-7 MS	BH-10A	Soluble	Solid	300.0	29660
880-16810-7 MSD	BH-10A	Soluble	Solid	300.0	29660

## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-3A

Lab Sample ID: 880-16810-1

Date Collected: 07/11/22 10:30

Matrix: Solid

Date Received: 07/12/22 11:15

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 12:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 15:38	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29572	07/12/22 16:02	KS	XEN MID
Soluble	Analysis	300.0		1			29761	07/15/22 14:51	CH	XEN MID

Client Sample ID: BH-4A

Lab Sample ID: 880-16810-2

Date Collected: 07/11/22 10:40

Matrix: Solid

Date Received: 07/12/22 11:15

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 13:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 15:59	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29572	07/12/22 16:02	KS	XEN MID
Soluble	Analysis	300.0		1			29761	07/15/22 15:00	CH	XEN MID

Client Sample ID: BH-5A

Lab Sample ID: 880-16810-3

Date Collected: 07/11/22 10:50

Matrix: Solid

Date Received: 07/12/22 11:15

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 13:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 16:42	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29572	07/12/22 16:02	KS	XEN MID
Soluble	Analysis	300.0		1			29761	07/15/22 15:28	CH	XEN MID

Client Sample ID: BH-6A

Lab Sample ID: 880-16810-4

Date Collected: 07/11/22 11:00

Matrix: Solid

Date Received: 07/12/22 11:15

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 13:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID

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## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-6A

Lab Sample ID: 880-16810-4

Date Collected: 07/11/22 11:00

Matrix: Solid

Date Received: 07/12/22 11:15

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			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 17:03	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29572	07/12/22 16:02	KS	XEN MID
Soluble	Analysis	300.0		1			29761	07/15/22 15:37	CH	XEN MID

Client Sample ID: BH-7A

Lab Sample ID: 880-16810-5

Date Collected: 07/11/22 11:10

Matrix: Solid

Date Received: 07/12/22 11:15

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 14:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 17:24	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29572	07/12/22 16:02	KS	XEN MID
Soluble	Analysis	300.0		1			29761	07/15/22 16:05	CH	XEN MID

Client Sample ID: BH-9A

Lab Sample ID: 880-16810-6

Date Collected: 07/11/22 11:20

Matrix: Solid

Date Received: 07/12/22 11:15

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 14:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 17:46	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29572	07/12/22 16:02	KS	XEN MID
Soluble	Analysis	300.0		1			29761	07/15/22 16:14	CH	XEN MID

Client Sample ID: BH-10A

Lab Sample ID: 880-16810-7

Date Collected: 07/11/22 11:30

Matrix: Solid

Date Received: 07/12/22 11:15

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 14:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 18:07	SM	XEN MID

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## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

## Client Sample ID: BH-10A

Date Collected: 07/11/22 11:30

Date Received: 07/12/22 11:15

## Lab Sample ID: 880-16810-7

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 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 15:21	CH	XEN MID

## Client Sample ID: BH-11A

Date Collected: 07/11/22 11:40

Date Received: 07/12/22 11:15

## Lab Sample ID: 880-16810-8

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			4.98 g	5 mL	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 15:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 18:28	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 15:48	CH	XEN MID

## Client Sample ID: BH-12A

Date Collected: 07/11/22 11:50

Date Received: 07/12/22 11:15

## Lab Sample ID: 880-16810-9

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 15:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 18:49	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 15:57	CH	XEN MID

## Client Sample ID: BH-13A

Date Collected: 07/11/22 12:00

Date Received: 07/12/22 11:15

## Lab Sample ID: 880-16810-10

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			5.01 g	5 mL	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 15:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 19:10	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 16:07	CH	XEN MID

Eurofins Midland

## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Client Sample ID: BH-14A

Lab Sample ID: 880-16810-11

Date Collected: 07/11/22 00:00

Matrix: Solid

Date Received: 07/12/22 11:15

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 17:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 19:31	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 16:47	CH	XEN MID

Client Sample ID: BH-15A

Lab Sample ID: 880-16810-12

Date Collected: 07/11/22 00:00

Matrix: Solid

Date Received: 07/12/22 11:15

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 18:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29622	07/13/22 09:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29609	07/13/22 19:52	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 17:15	CH	XEN MID

Client Sample ID: BH-16A

Lab Sample ID: 880-16810-13

Date Collected: 07/11/22 00:00

Matrix: Solid

Date Received: 07/12/22 11:15

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	29773	07/14/22 16:44	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29894	07/18/22 18:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30031	07/19/22 09:21	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29712	07/14/22 09:34	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29672	07/13/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29692	07/14/22 18:05	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 17:24	CH	XEN MID

## Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

## Method Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

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

Eurofins Midland

## Sample Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16810-1  
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-16810-1	BH-3A	Solid	07/11/22 10:30	07/12/22 11:15	1'
880-16810-2	BH-4A	Solid	07/11/22 10:40	07/12/22 11:15	1'
880-16810-3	BH-5A	Solid	07/11/22 10:50	07/12/22 11:15	1'
880-16810-4	BH-6A	Solid	07/11/22 11:00	07/12/22 11:15	1'
880-16810-5	BH-7A	Solid	07/11/22 11:10	07/12/22 11:15	1'
880-16810-6	BH-9A	Solid	07/11/22 11:20	07/12/22 11:15	1'
880-16810-7	BH-10A	Solid	07/11/22 11:30	07/12/22 11:15	1'
880-16810-8	BH-11A	Solid	07/11/22 11:40	07/12/22 11:15	1'
880-16810-9	BH-12A	Solid	07/11/22 11:50	07/12/22 11:15	1'
880-16810-10	BH-13A	Solid	07/11/22 12:00	07/12/22 11:15	1'
880-16810-11	BH-14A	Solid	07/11/22 00:00	07/12/22 11:15	
880-16810-12	BH-15A	Solid	07/11/22 00:00	07/12/22 11:15	
880-16810-13	BH-16A	Solid	07/11/22 00:00	07/12/22 11:15	



## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-16810-1

SDG Number: Lea County NM

**Login Number: 16810****List Number: 1****Creator: Rodriguez, Leticia****List Source: Eurofins Midland**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-16876-1

Laboratory Sample Delivery Group: Lea County NM  
Client Project/Site: Romeo Federal 22 Battery 1

**For:**

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

Attn: Becky Haskell

Authorized for release by:

7/21/2022 11:25:19 AM

Debbie Simmons, Project Manager  
(832)986-6768

[Debbie.Simmons@et.eurofinsus.com](mailto:Debbie.Simmons@et.eurofinsus.com)

#### LINKS

Review your project  
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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: Romeo Federal 22 Battery 1

Laboratory Job ID: 880-16876-1  
SDG: Lea County NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
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.
⌘	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: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

**Job ID: 880-16876-1**

**Laboratory: Eurofins Midland**

### Narrative

#### Job Narrative 880-16876-1

### Comments

per phone conversation with Heath Boyd, all samples collected this week from Romeo Battery should include a A after the ID

### Receipt

The samples were received on 7/13/2022 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-30096 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-30143 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-30143/20).

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 880-29794 and analytical batch 880-29786 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) 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

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

### Organic Prep

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

### VOA Prep

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

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Client Sample ID: BH-19A

Lab Sample ID: 880-16876-1

Date Collected: 07/12/22 10:40

Matrix: Solid

Date Received: 07/13/22 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0000768	U	0.000399	0.0000768	mg/Kg	-	07/20/22 13:38	07/20/22 20:50	1
Toluene	<0.0000910	U	0.000399	0.0000910	mg/Kg	-	07/20/22 13:38	07/20/22 20:50	1
Ethylbenzene	<0.000113	U	0.000399	0.000113	mg/Kg	-	07/20/22 13:38	07/20/22 20:50	1
m-Xylene & p-Xylene	<0.000202	U	0.000798	0.000202	mg/Kg	-	07/20/22 13:38	07/20/22 20:50	1
o-Xylene	<0.0000687	U	0.000399	0.0000687	mg/Kg	-	07/20/22 13:38	07/20/22 20:50	1
Xylenes, Total	<0.000202	U	0.000798	0.000202	mg/Kg	-	07/20/22 13:38	07/20/22 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/20/22 13:38	07/20/22 20:50	1
1,4-Difluorobenzene (Surr)	106		70 - 130	07/20/22 13:38	07/20/22 20:50	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000202	U	0.000798	0.000202	mg/Kg	-		07/21/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg	-		07/18/22 09:00	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	<15.0	U	49.9	15.0	mg/Kg	-	07/15/22 08:39	07/15/22 14:24	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg	-	07/15/22 08:39	07/15/22 14:24	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	-	07/15/22 08:39	07/15/22 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/15/22 08:39	07/15/22 14:24	1
o-Terphenyl	101		70 - 130	07/15/22 08:39	07/15/22 14:24	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.8		4.95	0.850	mg/Kg	-		07/16/22 17:43	1

Client Sample ID: BH-21A

Lab Sample ID: 880-16876-2

Date Collected: 07/12/22 10:50

Matrix: Solid

Date Received: 07/13/22 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0000775	U	0.000402	0.0000775	mg/Kg	-	07/20/22 13:38	07/20/22 21:17	1
Toluene	<0.0000918	U	0.000402	0.0000918	mg/Kg	-	07/20/22 13:38	07/20/22 21:17	1
Ethylbenzene	<0.000114	U	0.000402	0.000114	mg/Kg	-	07/20/22 13:38	07/20/22 21:17	1
m-Xylene & p-Xylene	<0.000203	U	0.000805	0.000203	mg/Kg	-	07/20/22 13:38	07/20/22 21:17	1
o-Xylene	<0.0000692	U	0.000402	0.0000692	mg/Kg	-	07/20/22 13:38	07/20/22 21:17	1
Xylenes, Total	<0.000203	U	0.000805	0.000203	mg/Kg	-	07/20/22 13:38	07/20/22 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	07/20/22 13:38	07/20/22 21:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/20/22 13:38	07/20/22 21:17	1

Eurofins Midland

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Client Sample ID: BH-21A

Lab Sample ID: 880-16876-2

Date Collected: 07/12/22 10:50

Matrix: Solid

Date Received: 07/13/22 11:00

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000203	U	0.000805	0.000203	mg/Kg			07/21/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.6	J	50.0	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 14:45	1
Diesel Range Organics (Over C10-C28)	25.6	J B	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 14:45	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				07/15/22 08:39	07/15/22 14:45	1
o-Terphenyl	86		70 - 130				07/15/22 08:39	07/15/22 14:45	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.67	J	4.98	0.855	mg/Kg			07/16/22 17:52	1

Client Sample ID: BH-22A

Lab Sample ID: 880-16876-3

Date Collected: 07/12/22 11:00

Matrix: Solid

Date Received: 07/13/22 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0000765	U	0.000398	0.0000765	mg/Kg		07/20/22 13:38	07/20/22 23:03	1
Toluene	0.000245	J	0.000398	0.0000907	mg/Kg		07/20/22 13:38	07/20/22 23:03	1
Ethylbenzene	<0.000112	U	0.000398	0.000112	mg/Kg		07/20/22 13:38	07/20/22 23:03	1
m-Xylene & p-Xylene	<0.000201	U	0.000795	0.000201	mg/Kg		07/20/22 13:38	07/20/22 23:03	1
o-Xylene	<0.0000684	U	0.000398	0.0000684	mg/Kg		07/20/22 13:38	07/20/22 23:03	1
Xylenes, Total	<0.000201	U	0.000795	0.000201	mg/Kg		07/20/22 13:38	07/20/22 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/20/22 13:38	07/20/22 23:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/20/22 13:38	07/20/22 23:03	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000245	J	0.000795	0.000201	mg/Kg			07/21/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.5	J	50.0	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 15:06	1
Diesel Range Organics (Over C10-C28)	29.5	J B	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 15:06	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Client Sample ID: BH-22A

Lab Sample ID: 880-16876-3

Date Collected: 07/12/22 11:00

Matrix: Solid

Date Received: 07/13/22 11:00

## 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)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				07/15/22 08:39	07/15/22 15:06	1
o-Terphenyl	81		70 - 130				07/15/22 08:39	07/15/22 15:06	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.93		5.00	0.858	mg/Kg			07/16/22 18:01	1

Client Sample ID: BH-23A

Lab Sample ID: 880-16876-4

Date Collected: 07/12/22 11:10

Matrix: Solid

Date Received: 07/13/22 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0000768	U	0.000399	0.0000768	mg/Kg		07/20/22 13:38	07/20/22 23:29	1
Toluene	<0.0000910	U	0.000399	0.0000910	mg/Kg		07/20/22 13:38	07/20/22 23:29	1
Ethylbenzene	<0.000113	U	0.000399	0.000113	mg/Kg		07/20/22 13:38	07/20/22 23:29	1
m-Xylene & p-Xylene	<0.000202	U	0.000798	0.000202	mg/Kg		07/20/22 13:38	07/20/22 23:29	1
o-Xylene	<0.0000687	U	0.000399	0.0000687	mg/Kg		07/20/22 13:38	07/20/22 23:29	1
Xylenes, Total	<0.000202	U	0.000798	0.000202	mg/Kg		07/20/22 13:38	07/20/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				07/20/22 13:38	07/20/22 23:29	1
1,4-Difluorobenzene (Surr)	93		70 - 130				07/20/22 13:38	07/20/22 23:29	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000202	U	0.000798	0.000202	mg/Kg			07/21/22 08:55	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	49.9	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 15:52	1
Diesel Range Organics (Over C10-C28)	26.0	J B	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 15:52	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				07/15/22 08:39	07/15/22 15:52	1
o-Terphenyl	85		70 - 130				07/15/22 08:39	07/15/22 15:52	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.15	J	5.05	0.867	mg/Kg			07/16/22 18:29	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Client Sample ID: BH-24A

Lab Sample ID: 880-16876-5

Date Collected: 07/12/22 11:20

Matrix: Solid

Date Received: 07/13/22 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0000768	U	0.000399	0.0000768	mg/Kg		07/20/22 13:38	07/20/22 23:54	1
Toluene	<0.0000910	U	0.000399	0.0000910	mg/Kg		07/20/22 13:38	07/20/22 23:54	1
Ethylbenzene	<0.000113	U	0.000399	0.000113	mg/Kg		07/20/22 13:38	07/20/22 23:54	1
m-Xylene & p-Xylene	<0.000202	U	0.000798	0.000202	mg/Kg		07/20/22 13:38	07/20/22 23:54	1
o-Xylene	<0.0000687	U	0.000399	0.0000687	mg/Kg		07/20/22 13:38	07/20/22 23:54	1
Xylenes, Total	<0.000202	U	0.000798	0.000202	mg/Kg		07/20/22 13:38	07/20/22 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	07/20/22 13:38	07/20/22 23:54	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/20/22 13:38	07/20/22 23:54	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000202	U	0.000798	0.000202	mg/Kg			07/21/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.0	J	49.9	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 16:13	1
Diesel Range Organics (Over C10-C28)	25.0	J B	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 16:13	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	07/15/22 08:39	07/15/22 16:13	1
o-Terphenyl	87		70 - 130	07/15/22 08:39	07/15/22 16:13	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.9		5.04	0.865	mg/Kg			07/16/22 18:38	1

Client Sample ID: BH-25A

Lab Sample ID: 880-16876-6

Date Collected: 07/12/22 11:30

Matrix: Solid

Date Received: 07/13/22 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		07/15/22 09:11	07/20/22 18:32	1
Toluene	0.00103	J	0.00200	0.000457	mg/Kg		07/15/22 09:11	07/20/22 18:32	1
Ethylbenzene	0.000592	J	0.00200	0.000566	mg/Kg		07/15/22 09:11	07/20/22 18:32	1
m-Xylene & p-Xylene	0.00121	J	0.00401	0.00101	mg/Kg		07/15/22 09:11	07/20/22 18:32	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		07/15/22 09:11	07/20/22 18:32	1
Xylenes, Total	0.00121	J	0.00401	0.00101	mg/Kg		07/15/22 09:11	07/20/22 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/15/22 09:11	07/20/22 18:32	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/15/22 09:11	07/20/22 18:32	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Client Sample ID: BH-25A

Lab Sample ID: 880-16876-6

Date Collected: 07/12/22 11:30

Matrix: Solid

Date Received: 07/13/22 11:00

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00283	J	0.00401	0.00101	mg/Kg			07/21/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	28.2	J	50.0	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 16:56	1
Diesel Range Organics (Over C10-C28)	28.2	J B	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 16:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				07/15/22 08:39	07/15/22 16:56	1
o-Terphenyl	87		70 - 130				07/15/22 08:39	07/15/22 16:56	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.30		5.04	0.865	mg/Kg			07/16/22 19:06	1

Client Sample ID: BH-26A

Lab Sample ID: 880-16876-7

Date Collected: 07/12/22 11:40

Matrix: Solid

Date Received: 07/13/22 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		07/15/22 09:11	07/20/22 18:52	1
Toluene	0.000646	J	0.00199	0.000454	mg/Kg		07/15/22 09:11	07/20/22 18:52	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		07/15/22 09:11	07/20/22 18:52	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		07/15/22 09:11	07/20/22 18:52	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		07/15/22 09:11	07/20/22 18:52	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		07/15/22 09:11	07/20/22 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/15/22 09:11	07/20/22 18:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/15/22 09:11	07/20/22 18:52	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			07/21/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 17:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 17:17	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Client Sample ID: BH-26A

Lab Sample ID: 880-16876-7

Date Collected: 07/12/22 11:40

Matrix: Solid

Date Received: 07/13/22 11:00

## 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)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 17:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				07/15/22 08:39	07/15/22 17:17	1
o-Terphenyl	99		70 - 130				07/15/22 08:39	07/15/22 17:17	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.70		4.98	0.855	mg/Kg			07/16/22 19:15	1

Client Sample ID: BH-28A

Lab Sample ID: 880-16876-8

Date Collected: 07/12/22 11:50

Matrix: Solid

Date Received: 07/13/22 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		07/15/22 09:11	07/20/22 19:13	1
Toluene	0.00343		0.00200	0.000455	mg/Kg		07/15/22 09:11	07/20/22 19:13	1
Ethylbenzene	0.00125	J	0.00200	0.000564	mg/Kg		07/15/22 09:11	07/20/22 19:13	1
m-Xylene & p-Xylene	0.00188	J	0.00399	0.00101	mg/Kg		07/15/22 09:11	07/20/22 19:13	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		07/15/22 09:11	07/20/22 19:13	1
Xylenes, Total	0.00188	J	0.00399	0.00101	mg/Kg		07/15/22 09:11	07/20/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/15/22 09:11	07/20/22 19:13	1
1,4-Difluorobenzene (Surr)	88		70 - 130				07/15/22 09:11	07/20/22 19:13	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00656		0.00399	0.00101	mg/Kg			07/21/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	27.5	J	49.9	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 17:38	1
Diesel Range Organics (Over C10-C28)	27.5	J B	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 17:38	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				07/15/22 08:39	07/15/22 17:38	1
o-Terphenyl	83		70 - 130				07/15/22 08:39	07/15/22 17:38	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.4		5.00	0.858	mg/Kg			07/16/22 19:24	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Client Sample ID: BH-30A

Lab Sample ID: 880-16876-9

Date Collected: 07/12/22 12:00

Matrix: Solid

Date Received: 07/13/22 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000566	J	0.00201	0.000387	mg/Kg		07/15/22 09:11	07/20/22 19:33	1
Toluene	0.00421		0.00201	0.000459	mg/Kg		07/15/22 09:11	07/20/22 19:33	1
Ethylbenzene	0.00248		0.00201	0.000568	mg/Kg		07/15/22 09:11	07/20/22 19:33	1
m-Xylene & p-Xylene	0.00299	J	0.00402	0.00102	mg/Kg		07/15/22 09:11	07/20/22 19:33	1
o-Xylene	0.000673	J	0.00201	0.000346	mg/Kg		07/15/22 09:11	07/20/22 19:33	1
Xylenes, Total	0.00366	J	0.00402	0.00102	mg/Kg		07/15/22 09:11	07/20/22 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/15/22 09:11	07/20/22 19:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/15/22 09:11	07/20/22 19:33	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0109		0.00402	0.00102	mg/Kg			07/21/22 08:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.1	J	50.0	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 17:59	1
Diesel Range Organics (Over C10-C28)	25.1	J B	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 17:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	07/15/22 08:39	07/15/22 17:59	1
o-Terphenyl	87		70 - 130	07/15/22 08:39	07/15/22 17:59	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.0		4.99	0.857	mg/Kg			07/16/22 19:33	1

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# Surrogate Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-16876-1	BH-19A	89	106
880-16876-2	BH-21A	85	93
880-16876-3	BH-22A	103	98
880-16876-4	BH-23A	96	93
880-16876-5	BH-24A	80	96
880-16876-6	BH-25A	109	96
880-16876-7	BH-26A	107	98
880-16876-8	BH-28A	107	88
880-16876-9	BH-30A	102	96
LCS 880-29817/1-A	Lab Control Sample	109	97
LCS 880-30144/1-A	Lab Control Sample	102	108
LCSD 880-29817/2-A	Lab Control Sample Dup	101	95
LCSD 880-30144/2-A	Lab Control Sample Dup	102	97
MB 880-29817/5-A	Method Blank	98	96
MB 880-30144/5-A	Method Blank	74	96

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-16876-1	BH-19A	92	101
880-16876-2	BH-21A	81	86
880-16876-3	BH-22A	76	81
880-16876-4	BH-23A	79	85
880-16876-5	BH-24A	80	87
880-16876-6	BH-25A	80	87
880-16876-7	BH-26A	88	99
880-16876-8	BH-28A	79	83
880-16876-9	BH-30A	80	87
LCS 880-29794/2-A	Lab Control Sample	108	118
LCSD 880-29794/3-A	Lab Control Sample Dup	114	122
MB 880-29794/1-A	Method Blank	103	119

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

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

Lab Sample ID: MB 880-29817/5-A

Matrix: Solid

Analysis Batch: 30096

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/15/22 09:11	07/20/22 12:46	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/15/22 09:11	07/20/22 12:46	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/15/22 09:11	07/20/22 12:46	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/15/22 09:11	07/20/22 12:46	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/15/22 09:11	07/20/22 12:46	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/15/22 09:11	07/20/22 12:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/15/22 09:11	07/20/22 12:46	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/15/22 09:11	07/20/22 12:46	1

Lab Sample ID: LCS 880-29817/1-A

Matrix: Solid

Analysis Batch: 30096

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1048		mg/Kg		105	70 - 130
Toluene	0.100	0.1037		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1069		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2278		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1203		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-29817/2-A

Matrix: Solid

Analysis Batch: 30096

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29817

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09444		mg/Kg		94	70 - 130	10	35
Toluene	0.100	0.09316		mg/Kg		93	70 - 130	11	35
Ethylbenzene	0.100	0.09138		mg/Kg		91	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130	16	35
o-Xylene	0.100	0.1025		mg/Kg		103	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-30144/5-A

Matrix: Solid

Analysis Batch: 30143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0000770	U	0.000400	0.0000770	mg/Kg		07/20/22 13:38	07/20/22 16:53	1
Toluene	<0.0000912	U	0.000400	0.0000912	mg/Kg		07/20/22 13:38	07/20/22 16:53	1

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

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

Lab Sample ID: MB 880-30144/5-A

Matrix: Solid

Analysis Batch: 30143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 30144

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000113	U	0.000400	0.000113	mg/Kg		07/20/22 13:38	07/20/22 16:53	1
m-Xylene & p-Xylene	<0.000202	U	0.000800	0.000202	mg/Kg		07/20/22 13:38	07/20/22 16:53	1
o-Xylene	<0.0000688	U	0.000400	0.0000688	mg/Kg		07/20/22 13:38	07/20/22 16:53	1
Xylenes, Total	<0.000202	U	0.000800	0.000202	mg/Kg		07/20/22 13:38	07/20/22 16:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	07/20/22 13:38	07/20/22 16:53	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/20/22 13:38	07/20/22 16:53	1

Lab Sample ID: LCS 880-30144/1-A

Matrix: Solid

Analysis Batch: 30143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 30144

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09565		mg/Kg		96	70 - 130
Toluene	0.100	0.08912		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09670		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1865		mg/Kg		93	70 - 130
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-30144/2-A

Matrix: Solid

Analysis Batch: 30143

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 30144

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08707		mg/Kg		87	70 - 130	9	35
Toluene	0.100	0.08620		mg/Kg		86	70 - 130	3	35
Ethylbenzene	0.100	0.09094		mg/Kg		91	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1750		mg/Kg		87	70 - 130	6	35
o-Xylene	0.100	0.09566		mg/Kg		96	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-29794/1-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.50	J	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 10:08	1

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

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

Lab Sample ID: MB 880-29794/1-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	15.19	J	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 10:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 10:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				07/15/22 08:39	07/15/22 10:08	1
o-Terphenyl	119		70 - 130				07/15/22 08:39	07/15/22 10:08	1

Lab Sample ID: LCS 880-29794/2-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	967.8		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	935.7		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	108		70 - 130				
o-Terphenyl	118		70 - 130				

Lab Sample ID: LCSD 880-29794/3-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1074		mg/Kg		107	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	1032		mg/Kg		103	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	114		70 - 130						
o-Terphenyl	122		70 - 130						

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29660/1-A

Matrix: Solid

Analysis Batch: 29862

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			07/16/22 14:53	1

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-29660/2-A

Matrix: Solid

Analysis Batch: 29862

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.9		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-29660/3-A

Matrix: Solid

Analysis Batch: 29862

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	264.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-16876-3 MS

Matrix: Solid

Analysis Batch: 29862

Client Sample ID: BH-22A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9.93		250	276.3		mg/Kg		107	90 - 110

Lab Sample ID: 880-16876-3 MSD

Matrix: Solid

Analysis Batch: 29862

Client Sample ID: BH-22A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.93		250	276.0		mg/Kg		106	90 - 110	0	20

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

## GC VOA

## Prep Batch: 29817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-6	BH-25A	Total/NA	Solid	5035	
880-16876-7	BH-26A	Total/NA	Solid	5035	
880-16876-8	BH-28A	Total/NA	Solid	5035	
880-16876-9	BH-30A	Total/NA	Solid	5035	
MB 880-29817/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29817/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29817/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 30096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-6	BH-25A	Total/NA	Solid	8021B	29817
880-16876-7	BH-26A	Total/NA	Solid	8021B	29817
880-16876-8	BH-28A	Total/NA	Solid	8021B	29817
880-16876-9	BH-30A	Total/NA	Solid	8021B	29817
MB 880-29817/5-A	Method Blank	Total/NA	Solid	8021B	29817
LCS 880-29817/1-A	Lab Control Sample	Total/NA	Solid	8021B	29817
LCSD 880-29817/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29817

## Analysis Batch: 30143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-1	BH-19A	Total/NA	Solid	8021B	30144
880-16876-2	BH-21A	Total/NA	Solid	8021B	30144
880-16876-3	BH-22A	Total/NA	Solid	8021B	30144
880-16876-4	BH-23A	Total/NA	Solid	8021B	30144
880-16876-5	BH-24A	Total/NA	Solid	8021B	30144
MB 880-30144/5-A	Method Blank	Total/NA	Solid	8021B	30144
LCS 880-30144/1-A	Lab Control Sample	Total/NA	Solid	8021B	30144
LCSD 880-30144/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	30144

## Prep Batch: 30144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-1	BH-19A	Total/NA	Solid	5035	
880-16876-2	BH-21A	Total/NA	Solid	5035	
880-16876-3	BH-22A	Total/NA	Solid	5035	
880-16876-4	BH-23A	Total/NA	Solid	5035	
880-16876-5	BH-24A	Total/NA	Solid	5035	
MB 880-30144/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-30144/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-30144/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 30197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-1	BH-19A	Total/NA	Solid	Total BTEX	
880-16876-2	BH-21A	Total/NA	Solid	Total BTEX	
880-16876-3	BH-22A	Total/NA	Solid	Total BTEX	
880-16876-4	BH-23A	Total/NA	Solid	Total BTEX	
880-16876-5	BH-24A	Total/NA	Solid	Total BTEX	
880-16876-6	BH-25A	Total/NA	Solid	Total BTEX	
880-16876-7	BH-26A	Total/NA	Solid	Total BTEX	
880-16876-8	BH-28A	Total/NA	Solid	Total BTEX	
880-16876-9	BH-30A	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

## GC Semi VOA

## Analysis Batch: 29786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-1	BH-19A	Total/NA	Solid	8015B NM	29794
880-16876-2	BH-21A	Total/NA	Solid	8015B NM	29794
880-16876-3	BH-22A	Total/NA	Solid	8015B NM	29794
880-16876-4	BH-23A	Total/NA	Solid	8015B NM	29794
880-16876-5	BH-24A	Total/NA	Solid	8015B NM	29794
880-16876-6	BH-25A	Total/NA	Solid	8015B NM	29794
880-16876-7	BH-26A	Total/NA	Solid	8015B NM	29794
880-16876-8	BH-28A	Total/NA	Solid	8015B NM	29794
880-16876-9	BH-30A	Total/NA	Solid	8015B NM	29794
MB 880-29794/1-A	Method Blank	Total/NA	Solid	8015B NM	29794
LCS 880-29794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29794
LCSD 880-29794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29794

## Prep Batch: 29794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-1	BH-19A	Total/NA	Solid	8015NM Prep	
880-16876-2	BH-21A	Total/NA	Solid	8015NM Prep	
880-16876-3	BH-22A	Total/NA	Solid	8015NM Prep	
880-16876-4	BH-23A	Total/NA	Solid	8015NM Prep	
880-16876-5	BH-24A	Total/NA	Solid	8015NM Prep	
880-16876-6	BH-25A	Total/NA	Solid	8015NM Prep	
880-16876-7	BH-26A	Total/NA	Solid	8015NM Prep	
880-16876-8	BH-28A	Total/NA	Solid	8015NM Prep	
880-16876-9	BH-30A	Total/NA	Solid	8015NM Prep	
MB 880-29794/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 29903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-1	BH-19A	Total/NA	Solid	8015 NM	
880-16876-2	BH-21A	Total/NA	Solid	8015 NM	
880-16876-3	BH-22A	Total/NA	Solid	8015 NM	
880-16876-4	BH-23A	Total/NA	Solid	8015 NM	
880-16876-5	BH-24A	Total/NA	Solid	8015 NM	
880-16876-6	BH-25A	Total/NA	Solid	8015 NM	
880-16876-7	BH-26A	Total/NA	Solid	8015 NM	
880-16876-8	BH-28A	Total/NA	Solid	8015 NM	
880-16876-9	BH-30A	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 29660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-1	BH-19A	Soluble	Solid	DI Leach	
880-16876-2	BH-21A	Soluble	Solid	DI Leach	
880-16876-3	BH-22A	Soluble	Solid	DI Leach	
880-16876-4	BH-23A	Soluble	Solid	DI Leach	
880-16876-5	BH-24A	Soluble	Solid	DI Leach	
880-16876-6	BH-25A	Soluble	Solid	DI Leach	
880-16876-7	BH-26A	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

## HPLC/IC (Continued)

## Leach Batch: 29660 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-8	BH-28A	Soluble	Solid	DI Leach	
880-16876-9	BH-30A	Soluble	Solid	DI Leach	
MB 880-29660/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29660/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29660/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16876-3 MS	BH-22A	Soluble	Solid	DI Leach	
880-16876-3 MSD	BH-22A	Soluble	Solid	DI Leach	

## Analysis Batch: 29862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16876-1	BH-19A	Soluble	Solid	300.0	29660
880-16876-2	BH-21A	Soluble	Solid	300.0	29660
880-16876-3	BH-22A	Soluble	Solid	300.0	29660
880-16876-4	BH-23A	Soluble	Solid	300.0	29660
880-16876-5	BH-24A	Soluble	Solid	300.0	29660
880-16876-6	BH-25A	Soluble	Solid	300.0	29660
880-16876-7	BH-26A	Soluble	Solid	300.0	29660
880-16876-8	BH-28A	Soluble	Solid	300.0	29660
880-16876-9	BH-30A	Soluble	Solid	300.0	29660
MB 880-29660/1-A	Method Blank	Soluble	Solid	300.0	29660
LCS 880-29660/2-A	Lab Control Sample	Soluble	Solid	300.0	29660
LCSD 880-29660/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29660
880-16876-3 MS	BH-22A	Soluble	Solid	300.0	29660
880-16876-3 MSD	BH-22A	Soluble	Solid	300.0	29660

## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Client Sample ID: BH-19A

Lab Sample ID: 880-16876-1

Date Collected: 07/12/22 10:40

Matrix: Solid

Date Received: 07/13/22 11:00

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	30144	07/20/22 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	1.0 mL	30143	07/20/22 20:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30197	07/21/22 08:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29903	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 14:24	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 17:43	CH	XEN MID

Client Sample ID: BH-21A

Lab Sample ID: 880-16876-2

Date Collected: 07/12/22 10:50

Matrix: Solid

Date Received: 07/13/22 11:00

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	30144	07/20/22 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	1.0 mL	30143	07/20/22 21:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30197	07/21/22 08:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29903	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 14:45	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 17:52	CH	XEN MID

Client Sample ID: BH-22A

Lab Sample ID: 880-16876-3

Date Collected: 07/12/22 11:00

Matrix: Solid

Date Received: 07/13/22 11:00

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	30144	07/20/22 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	1.0 mL	30143	07/20/22 23:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30197	07/21/22 08:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29903	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 15:06	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 18:01	CH	XEN MID

Client Sample ID: BH-23A

Lab Sample ID: 880-16876-4

Date Collected: 07/12/22 11:10

Matrix: Solid

Date Received: 07/13/22 11:00

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	30144	07/20/22 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	1.0 mL	30143	07/20/22 23:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30197	07/21/22 08:55	SM	XEN MID

Eurofins Midland

## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Client Sample ID: BH-23A

Lab Sample ID: 880-16876-4

Date Collected: 07/12/22 11:10

Matrix: Solid

Date Received: 07/13/22 11:00

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			29903	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 15:52	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 18:29	CH	XEN MID

Client Sample ID: BH-24A

Lab Sample ID: 880-16876-5

Date Collected: 07/12/22 11:20

Matrix: Solid

Date Received: 07/13/22 11:00

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	30144	07/20/22 13:38	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	1.0 mL	30143	07/20/22 23:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30197	07/21/22 08:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29903	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 16:13	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 18:38	CH	XEN MID

Client Sample ID: BH-25A

Lab Sample ID: 880-16876-6

Date Collected: 07/12/22 11:30

Matrix: Solid

Date Received: 07/13/22 11:00

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	29817	07/15/22 09:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30096	07/20/22 18:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30197	07/21/22 08:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29903	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 16:56	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 19:06	CH	XEN MID

Client Sample ID: BH-26A

Lab Sample ID: 880-16876-7

Date Collected: 07/12/22 11:40

Matrix: Solid

Date Received: 07/13/22 11:00

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	29817	07/15/22 09:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30096	07/20/22 18:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30197	07/21/22 08:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29903	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 17:17	SM	XEN MID

Eurofins Midland

## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Client Sample ID: BH-26A

Lab Sample ID: 880-16876-7

Date Collected: 07/12/22 11:40

Matrix: Solid

Date Received: 07/13/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 19:15	CH	XEN MID

Client Sample ID: BH-28A

Lab Sample ID: 880-16876-8

Date Collected: 07/12/22 11:50

Matrix: Solid

Date Received: 07/13/22 11:00

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	29817	07/15/22 09:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30096	07/20/22 19:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30197	07/21/22 08:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29903	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 17:38	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 19:24	CH	XEN MID

Client Sample ID: BH-30A

Lab Sample ID: 880-16876-9

Date Collected: 07/12/22 12:00

Matrix: Solid

Date Received: 07/13/22 11:00

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	29817	07/15/22 09:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30096	07/20/22 19:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30197	07/21/22 08:55	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29903	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 17:59	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29660	07/13/22 12:39	SMC	XEN MID
Soluble	Analysis	300.0		1			29862	07/16/22 19:33	CH	XEN MID

## Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

## Method Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

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

Eurofins Midland

## Sample Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16876-1  
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-16876-1	BH-19A	Solid	07/12/22 10:40	07/13/22 11:00
880-16876-2	BH-21A	Solid	07/12/22 10:50	07/13/22 11:00
880-16876-3	BH-22A	Solid	07/12/22 11:00	07/13/22 11:00
880-16876-4	BH-23A	Solid	07/12/22 11:10	07/13/22 11:00
880-16876-5	BH-24A	Solid	07/12/22 11:20	07/13/22 11:00
880-16876-6	BH-25A	Solid	07/12/22 11:30	07/13/22 11:00
880-16876-7	BH-26A	Solid	07/12/22 11:40	07/13/22 11:00
880-16876-8	BH-28A	Solid	07/12/22 11:50	07/13/22 11:00
880-16876-9	BH-30A	Solid	07/12/22 12:00	07/13/22 11:00

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-1800  
Fax: 432-563-1713

Project Name: Pomco Federal 22 Batteries

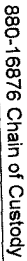
Project Loc: Lea County, NM

PO 註:

### Report Format.

Health. Boyd @ GHD.com

☐ Standard      ☐ TRRP      ☐ NPDES



Standard 7A1

Att. N. K. U.

by Courier? UPS  
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alex Lone  
|Corrected

Released to Imaging: 1/10/2023 1:18:19 PM

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-16876-1

SDG Number: Lea County NM

Login Number: 16876

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	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").	N/A	



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-16923-1

Laboratory Sample Delivery Group: Lea County, NM  
Client Project/Site: Romeo Federal 22 Battery 1

**For:**

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

Attn: Becky Haskell

Authorized for release by:

7/21/2022 11:33:49 AM

Debbie Simmons, Project Manager  
(832)986-6768

[Debbie.Simmons@et.eurofinsus.com](mailto:Debbie.Simmons@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



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[www.eurofinsus.com/Env](http://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: Romeo Federal 22 Battery 1

Laboratory Job ID: 880-16923-1  
SDG: Lea County, NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
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.
□	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: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

Job ID: 880-16923-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-16923-1

Receipt

The samples were received on 7/14/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.1°C

GC VOA

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

GC Semi VOA

Method 8015MOD\_NM: The method blank for preparation batch 880-29794 and analytical batch 880-29786 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

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

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

Client Sample ID: BH-31A

Lab Sample ID: 880-16923-1

Date Collected: 07/13/22 10:10

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		07/15/22 13:29	07/17/22 22:29	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		07/15/22 13:29	07/17/22 22:29	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		07/15/22 13:29	07/17/22 22:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		07/15/22 13:29	07/17/22 22:29	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		07/15/22 13:29	07/17/22 22:29	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		07/15/22 13:29	07/17/22 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	07/15/22 13:29	07/17/22 22:29	1
1,4-Difluorobenzene (Surr)	85		70 - 130	07/15/22 13:29	07/17/22 22:29	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			07/18/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	139		50.0	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	50.0	15.0	mg/Kg		07/15/22 14:19	07/15/22 23:18	1
Diesel Range Organics (Over C10-C28)	139		50.0	15.0	mg/Kg		07/15/22 14:19	07/15/22 23:18	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 14:19	07/15/22 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	07/15/22 14:19	07/15/22 23:18	1
o-Terphenyl	94		70 - 130	07/15/22 14:19	07/15/22 23:18	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.4		4.99	0.857	mg/Kg			07/20/22 07:43	1

Client Sample ID: BH-34A

Lab Sample ID: 880-16923-2

Date Collected: 07/13/22 10:20

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 3.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		07/15/22 13:29	07/17/22 22:49	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		07/15/22 13:29	07/17/22 22:49	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		07/15/22 13:29	07/17/22 22:49	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		07/15/22 13:29	07/17/22 22:49	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		07/15/22 13:29	07/17/22 22:49	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		07/15/22 13:29	07/17/22 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/15/22 13:29	07/17/22 22:49	1

Eurofins Midland

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

Client Sample ID: BH-34A

Lab Sample ID: 880-16923-2

Date Collected: 07/13/22 10:20

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 3.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84		70 - 130	07/15/22 13:29	07/17/22 22:49	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			07/18/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	733		49.9	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	49.9	15.0	mg/Kg		07/15/22 14:19	07/15/22 23:39	1
Diesel Range Organics (Over C10-C28)	733		49.9	15.0	mg/Kg		07/15/22 14:19	07/15/22 23:39	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		07/15/22 14:19	07/15/22 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				07/15/22 14:19	07/15/22 23:39	1
o-Terphenyl	97		70 - 130				07/15/22 14:19	07/15/22 23:39	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11500		99.4	17.1	mg/Kg			07/20/22 07:50	20

Client Sample ID: SW-1A

Lab Sample ID: 880-16923-3

Date Collected: 07/13/22 10:30

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 1'-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		07/15/22 13:29	07/17/22 23:10	1
Toluene	0.00117	J	0.00200	0.000457	mg/Kg		07/15/22 13:29	07/17/22 23:10	1
Ethylbenzene	0.00138	J	0.00200	0.000566	mg/Kg		07/15/22 13:29	07/17/22 23:10	1
m-Xylene & p-Xylene	0.00330	J	0.00401	0.00101	mg/Kg		07/15/22 13:29	07/17/22 23:10	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		07/15/22 13:29	07/17/22 23:10	1
Xylenes, Total	0.00330	J	0.00401	0.00101	mg/Kg		07/15/22 13:29	07/17/22 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	07/15/22 13:29	07/17/22 23:10	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/15/22 13:29	07/17/22 23:10	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00585		0.00401	0.00101	mg/Kg			07/18/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			07/18/22 09:00	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

## Client Sample ID: SW-1A

Lab Sample ID: 880-16923-3

Date Collected: 07/13/22 10:30

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 1'-4'

## 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	<15.0	U	49.9	15.0	mg/Kg		07/15/22 14:19	07/16/22 00:01	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		07/15/22 14:19	07/16/22 00:01	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		07/15/22 14:19	07/16/22 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/15/22 14:19	07/16/22 00:01	1
o-Terphenyl	96		70 - 130				07/15/22 14:19	07/16/22 00:01	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.3		4.98	0.855	mg/Kg			07/20/22 08:14	1

## Client Sample ID: SW-2A

Lab Sample ID: 880-16923-4

Date Collected: 07/13/22 10:40

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		07/15/22 13:29	07/17/22 23:30	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		07/15/22 13:29	07/17/22 23:30	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		07/15/22 13:29	07/17/22 23:30	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		07/15/22 13:29	07/17/22 23:30	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		07/15/22 13:29	07/17/22 23:30	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		07/15/22 13:29	07/17/22 23:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				07/15/22 13:29	07/17/22 23:30	1
1,4-Difluorobenzene (Surr)	87		70 - 130				07/15/22 13:29	07/17/22 23:30	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			07/18/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.6	J	49.9	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 18:21	1
Diesel Range Organics (Over C10-C28)	22.6	J B	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 18:21	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		07/15/22 08:39	07/15/22 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				07/15/22 08:39	07/15/22 18:21	1
o-Terphenyl	88		70 - 130				07/15/22 08:39	07/15/22 18:21	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

## Client Sample ID: SW-2A

Lab Sample ID: 880-16923-4

Date Collected: 07/13/22 10:40

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 2'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.92		5.01	0.860	mg/Kg			07/20/22 08:22	1

## Client Sample ID: SW-3A

Lab Sample ID: 880-16923-5

Date Collected: 07/13/22 10:50

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		07/15/22 13:29	07/17/22 23:51	1
Toluene	0.000539	J	0.00199	0.000453	mg/Kg		07/15/22 13:29	07/17/22 23:51	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		07/15/22 13:29	07/17/22 23:51	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		07/15/22 13:29	07/17/22 23:51	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		07/15/22 13:29	07/17/22 23:51	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		07/15/22 13:29	07/17/22 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/15/22 13:29	07/17/22 23:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130				07/15/22 13:29	07/17/22 23:51	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			07/18/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.1	J	50.0	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 18:42	1
Diesel Range Organics (Over C10-C28)	26.1	J B	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 18:42	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				07/15/22 08:39	07/15/22 18:42	1
o-Terphenyl	90		70 - 130				07/15/22 08:39	07/15/22 18:42	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		4.97	0.853	mg/Kg			07/20/22 08:30	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

Client Sample ID: SW-4A

Lab Sample ID: 880-16923-6

Date Collected: 07/13/22 11:00

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		07/15/22 13:29	07/18/22 00:11	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		07/15/22 13:29	07/18/22 00:11	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		07/15/22 13:29	07/18/22 00:11	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		07/15/22 13:29	07/18/22 00:11	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		07/15/22 13:29	07/18/22 00:11	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		07/15/22 13:29	07/18/22 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/15/22 13:29	07/18/22 00:11	1
1,4-Difluorobenzene (Surr)	77		70 - 130	07/15/22 13:29	07/18/22 00:11	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			07/18/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			07/18/22 09:00	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	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 19:03	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 19:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	07/15/22 08:39	07/15/22 19:03	1
o-Terphenyl	93		70 - 130	07/15/22 08:39	07/15/22 19:03	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.68	J	4.98	0.855	mg/Kg			07/20/22 08:38	1

Client Sample ID: SW-10A

Lab Sample ID: 880-16923-7

Date Collected: 07/13/22 11:10

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		07/15/22 13:29	07/18/22 00:31	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		07/15/22 13:29	07/18/22 00:31	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		07/15/22 13:29	07/18/22 00:31	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		07/15/22 13:29	07/18/22 00:31	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		07/15/22 13:29	07/18/22 00:31	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		07/15/22 13:29	07/18/22 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	07/15/22 13:29	07/18/22 00:31	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

Client Sample ID: SW-10A

Lab Sample ID: 880-16923-7

Date Collected: 07/13/22 11:10

Matrix: Solid

Date Received: 07/14/22 10:30

Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	07/15/22 13:29	07/18/22 00:31	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			07/18/22 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.2	J	49.8	14.9	mg/Kg			07/18/22 09:00	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	<14.9	U	49.8	14.9	mg/Kg		07/15/22 08:39	07/15/22 19:24	1
Diesel Range Organics (Over C10-C28)	23.2	J B	49.8	14.9	mg/Kg		07/15/22 08:39	07/15/22 19:24	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		07/15/22 08:39	07/15/22 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				07/15/22 08:39	07/15/22 19:24	1
o-Terphenyl	87		70 - 130				07/15/22 08:39	07/15/22 19:24	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.6		5.00	0.858	mg/Kg			07/20/22 08:45	1

## Surrogate Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-16923-1	BH-31A	95	85
880-16923-2	BH-34A	107	84
880-16923-3	SW-1A	111	88
880-16923-4	SW-2A	91	87
880-16923-5	SW-3A	107	87
880-16923-6	SW-4A	110	77
880-16923-7	SW-10A	91	87
LCS 880-29859/1-A	Lab Control Sample	100	98
LCSD 880-29859/2-A	Lab Control Sample Dup	101	99
MB 880-29772/5-A	Method Blank	97	89
MB 880-29859/5-A	Method Blank	89	83
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-16923-1	BH-31A	86	94
880-16923-2	BH-34A	90	97
880-16923-3	SW-1A	85	96
880-16923-4	SW-2A	79	88
880-16923-5	SW-3A	81	90
880-16923-6	SW-4A	83	93
880-16923-7	SW-10A	79	87
LCS 880-29794/2-A	Lab Control Sample	108	118
LCS 880-29867/2-A	Lab Control Sample	111	127
LCSD 880-29794/3-A	Lab Control Sample Dup	114	122
LCSD 880-29867/3-A	Lab Control Sample Dup	93	104
MB 880-29794/1-A	Method Blank	103	119
MB 880-29867/1-A	Method Blank	101	121
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

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

Lab Sample ID: MB 880-29772/5-A

Matrix: Solid

Analysis Batch: 29882

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/14/22 16:34	07/17/22 15:57	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/14/22 16:34	07/17/22 15:57	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/14/22 16:34	07/17/22 15:57	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/14/22 16:34	07/17/22 15:57	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/14/22 16:34	07/17/22 15:57	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/14/22 16:34	07/17/22 15:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/14/22 16:34	07/17/22 15:57	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/14/22 16:34	07/17/22 15:57	1

Lab Sample ID: MB 880-29859/5-A

Matrix: Solid

Analysis Batch: 29882

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		07/15/22 13:29	07/17/22 21:05	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		07/15/22 13:29	07/17/22 21:05	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		07/15/22 13:29	07/17/22 21:05	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		07/15/22 13:29	07/17/22 21:05	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		07/15/22 13:29	07/17/22 21:05	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		07/15/22 13:29	07/17/22 21:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/15/22 13:29	07/17/22 21:05	1
1,4-Difluorobenzene (Surr)	83		70 - 130	07/15/22 13:29	07/17/22 21:05	1

Lab Sample ID: LCS 880-29859/1-A

Matrix: Solid

Analysis Batch: 29882

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09047		mg/Kg		90	70 - 130
Toluene	0.100	0.08792		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09113		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1803		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09914		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-29859/2-A

Matrix: Solid

Analysis Batch: 29882

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29859

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09400		mg/Kg		94	70 - 130	4	35

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-29859/2-A

Matrix: Solid

Analysis Batch: 29882

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29859

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09138		mg/Kg		91	70 - 130	4	35
Ethylbenzene	0.100	0.09441		mg/Kg		94	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1860		mg/Kg		93	70 - 130	3	35
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-29794/1-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.50	J	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 10:08	1
Diesel Range Organics (Over C10-C28)	15.19	J	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 10:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 08:39	07/15/22 10:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	07/15/22 08:39	07/15/22 10:08	1
o-Terphenyl	119		70 - 130	07/15/22 08:39	07/15/22 10:08	1

Lab Sample ID: LCS 880-29794/2-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	967.8		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	935.7		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-29794/3-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1074		mg/Kg		107	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	1032		mg/Kg		103	70 - 130	10	20

Eurofins Midland

## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-29794/3-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29794

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: MB 880-29867/1-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29867

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		07/15/22 14:19	07/15/22 20:28	1	
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 14:19	07/15/22 20:28	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		07/15/22 14:19	07/15/22 20:28	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	101		70 - 130				07/15/22 14:19	07/15/22 20:28	1	
o-Terphenyl	121		70 - 130				07/15/22 14:19	07/15/22 20:28	1	

Lab Sample ID: LCS 880-29867/2-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29867

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	976.0		mg/Kg		98	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	996.5		mg/Kg		100	70 - 130			
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		111		70 - 130						
o-Terphenyl		127		70 - 130						

Lab Sample ID: LCSD 880-29867/3-A

Matrix: Solid

Analysis Batch: 29786

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29867

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	997.8		mg/Kg		100	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	1000	867.3		mg/Kg		87	70 - 130	14	20	
Surrogate		%Recovery	Qualifier	Limits						
1-Chlorooctane		93		70 - 130						
o-Terphenyl		104		70 - 130						

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29758/1-A

Matrix: Solid

Analysis Batch: 29939

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			07/20/22 05:06	1

Lab Sample ID: LCS 880-29758/2-A

Matrix: Solid

Analysis Batch: 29939

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.8		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-29758/3-A

Matrix: Solid

Analysis Batch: 29939

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	272.4		mg/Kg		109	90 - 110	1	20

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

## GC VOA

## Prep Batch: 29772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29772/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 29859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16923-1	BH-31A	Total/NA	Solid	5035	
880-16923-2	BH-34A	Total/NA	Solid	5035	
880-16923-3	SW-1A	Total/NA	Solid	5035	
880-16923-4	SW-2A	Total/NA	Solid	5035	
880-16923-5	SW-3A	Total/NA	Solid	5035	
880-16923-6	SW-4A	Total/NA	Solid	5035	
880-16923-7	SW-10A	Total/NA	Solid	5035	
MB 880-29859/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29859/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29859/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 29882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16923-1	BH-31A	Total/NA	Solid	8021B	29859
880-16923-2	BH-34A	Total/NA	Solid	8021B	29859
880-16923-3	SW-1A	Total/NA	Solid	8021B	29859
880-16923-4	SW-2A	Total/NA	Solid	8021B	29859
880-16923-5	SW-3A	Total/NA	Solid	8021B	29859
880-16923-6	SW-4A	Total/NA	Solid	8021B	29859
880-16923-7	SW-10A	Total/NA	Solid	8021B	29859
MB 880-29772/5-A	Method Blank	Total/NA	Solid	8021B	29772
MB 880-29859/5-A	Method Blank	Total/NA	Solid	8021B	29859
LCS 880-29859/1-A	Lab Control Sample	Total/NA	Solid	8021B	29859
LCSD 880-29859/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29859

## Analysis Batch: 29994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16923-1	BH-31A	Total/NA	Solid	Total BTEX	
880-16923-2	BH-34A	Total/NA	Solid	Total BTEX	
880-16923-3	SW-1A	Total/NA	Solid	Total BTEX	
880-16923-4	SW-2A	Total/NA	Solid	Total BTEX	
880-16923-5	SW-3A	Total/NA	Solid	Total BTEX	
880-16923-6	SW-4A	Total/NA	Solid	Total BTEX	
880-16923-7	SW-10A	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 29786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16923-1	BH-31A	Total/NA	Solid	8015B NM	29867
880-16923-2	BH-34A	Total/NA	Solid	8015B NM	29867
880-16923-3	SW-1A	Total/NA	Solid	8015B NM	29867
880-16923-4	SW-2A	Total/NA	Solid	8015B NM	29794
880-16923-5	SW-3A	Total/NA	Solid	8015B NM	29794
880-16923-6	SW-4A	Total/NA	Solid	8015B NM	29794
880-16923-7	SW-10A	Total/NA	Solid	8015B NM	29794
MB 880-29794/1-A	Method Blank	Total/NA	Solid	8015B NM	29794

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

## GC Semi VOA (Continued)

## Analysis Batch: 29786 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29867/1-A	Method Blank	Total/NA	Solid	8015B NM	29867
LCS 880-29794/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29794
LCS 880-29867/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29867
LCSD 880-29794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29794
LCSD 880-29867/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29867

## Prep Batch: 29794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16923-4	SW-2A	Total/NA	Solid	8015NM Prep	
880-16923-5	SW-3A	Total/NA	Solid	8015NM Prep	
880-16923-6	SW-4A	Total/NA	Solid	8015NM Prep	
880-16923-7	SW-10A	Total/NA	Solid	8015NM Prep	
MB 880-29794/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29794/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29794/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Prep Batch: 29867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16923-1	BH-31A	Total/NA	Solid	8015NM Prep	
880-16923-2	BH-34A	Total/NA	Solid	8015NM Prep	
880-16923-3	SW-1A	Total/NA	Solid	8015NM Prep	
MB 880-29867/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29867/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29867/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 29904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16923-1	BH-31A	Total/NA	Solid	8015 NM	
880-16923-2	BH-34A	Total/NA	Solid	8015 NM	
880-16923-3	SW-1A	Total/NA	Solid	8015 NM	
880-16923-4	SW-2A	Total/NA	Solid	8015 NM	
880-16923-5	SW-3A	Total/NA	Solid	8015 NM	
880-16923-6	SW-4A	Total/NA	Solid	8015 NM	
880-16923-7	SW-10A	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 29758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16923-1	BH-31A	Soluble	Solid	DI Leach	
880-16923-2	BH-34A	Soluble	Solid	DI Leach	
880-16923-3	SW-1A	Soluble	Solid	DI Leach	
880-16923-4	SW-2A	Soluble	Solid	DI Leach	
880-16923-5	SW-3A	Soluble	Solid	DI Leach	
880-16923-6	SW-4A	Soluble	Solid	DI Leach	
880-16923-7	SW-10A	Soluble	Solid	DI Leach	
MB 880-29758/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29758/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29758/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

## HPLC/IC

## Analysis Batch: 29939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16923-1	BH-31A	Soluble	Solid	300.0	29758
880-16923-2	BH-34A	Soluble	Solid	300.0	29758
880-16923-3	SW-1A	Soluble	Solid	300.0	29758
880-16923-4	SW-2A	Soluble	Solid	300.0	29758
880-16923-5	SW-3A	Soluble	Solid	300.0	29758
880-16923-6	SW-4A	Soluble	Solid	300.0	29758
880-16923-7	SW-10A	Soluble	Solid	300.0	29758
MB 880-29758/1-A	Method Blank	Soluble	Solid	300.0	29758
LCS 880-29758/2-A	Lab Control Sample	Soluble	Solid	300.0	29758
LCSD 880-29758/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29758

## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

Client Sample ID: BH-31A

Lab Sample ID: 880-16923-1

Date Collected: 07/13/22 10:10

Matrix: Solid

Date Received: 07/14/22 10:30

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	29859	07/15/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29882	07/17/22 22:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29994	07/18/22 15:39	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29904	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29867	07/15/22 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 23:18	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29758	07/14/22 13:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29939	07/20/22 07:43	CH	XEN MID

Client Sample ID: BH-34A

Lab Sample ID: 880-16923-2

Date Collected: 07/13/22 10:20

Matrix: Solid

Date Received: 07/14/22 10:30

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	29859	07/15/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29882	07/17/22 22:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29994	07/18/22 15:39	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29904	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29867	07/15/22 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 23:39	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29758	07/14/22 13:04	SMC	XEN MID
Soluble	Analysis	300.0		20			29939	07/20/22 07:50	CH	XEN MID

Client Sample ID: SW-1A

Lab Sample ID: 880-16923-3

Date Collected: 07/13/22 10:30

Matrix: Solid

Date Received: 07/14/22 10:30

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	29859	07/15/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29882	07/17/22 23:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29994	07/18/22 15:39	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29904	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29867	07/15/22 14:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/16/22 00:01	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29758	07/14/22 13:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29939	07/20/22 08:14	CH	XEN MID

Client Sample ID: SW-2A

Lab Sample ID: 880-16923-4

Date Collected: 07/13/22 10:40

Matrix: Solid

Date Received: 07/14/22 10:30

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	29859	07/15/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29882	07/17/22 23:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29994	07/18/22 15:39	SM	XEN MID

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## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

## Client Sample ID: SW-2A

## Lab Sample ID: 880-16923-4

Date Collected: 07/13/22 10:40

Matrix: Solid

Date Received: 07/14/22 10:30

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			29904	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 18:21	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29758	07/14/22 13:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29939	07/20/22 08:22	CH	XEN MID

## Client Sample ID: SW-3A

## Lab Sample ID: 880-16923-5

Date Collected: 07/13/22 10:50

Matrix: Solid

Date Received: 07/14/22 10:30

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	29859	07/15/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29882	07/17/22 23:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29994	07/18/22 15:39	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29904	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 18:42	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29758	07/14/22 13:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29939	07/20/22 08:30	CH	XEN MID

## Client Sample ID: SW-4A

## Lab Sample ID: 880-16923-6

Date Collected: 07/13/22 11:00

Matrix: Solid

Date Received: 07/14/22 10:30

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	29859	07/15/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29882	07/18/22 00:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29994	07/18/22 15:39	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29904	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 19:03	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29758	07/14/22 13:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29939	07/20/22 08:38	CH	XEN MID

## Client Sample ID: SW-10A

## Lab Sample ID: 880-16923-7

Date Collected: 07/13/22 11:10

Matrix: Solid

Date Received: 07/14/22 10:30

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	29859	07/15/22 13:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29882	07/18/22 00:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29994	07/18/22 15:39	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29904	07/18/22 09:00	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29794	07/15/22 08:39	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29786	07/15/22 19:24	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

Client Sample ID: SW-10A  
Date Collected: 07/13/22 11:10  
Date Received: 07/14/22 10:30

Lab Sample ID: 880-16923-7  
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 g	50 mL	29758	07/14/22 13:04	SMC	XEN MID
Soluble	Analysis	300.0		1			29939	07/20/22 08:45	CH	XEN MID

Laboratory References:

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

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

Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

## Method Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

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: Romeo Federal 22 Battery 1

Job ID: 880-16923-1  
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-16923-1	BH-31A	Solid	07/13/22 10:10	07/14/22 10:30	2.5'
880-16923-2	BH-34A	Solid	07/13/22 10:20	07/14/22 10:30	3.5'
880-16923-3	SW-1A	Solid	07/13/22 10:30	07/14/22 10:30	1'-4'
880-16923-4	SW-2A	Solid	07/13/22 10:40	07/14/22 10:30	2'
880-16923-5	SW-3A	Solid	07/13/22 10:50	07/14/22 10:30	4'
880-16923-6	SW-4A	Solid	07/13/22 11:00	07/14/22 10:30	4'
880-16923-7	SW-10A	Solid	07/13/22 11:10	07/14/22 10:30	3'

## Xenon Laboratories

The Environmental Lab of Texas



880-16923 Chain of Custody

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East  
Odessa, Texas 79765

Phone: 432-563-1800  
Fax: 432-563-1743

Project Manager

Becky Haskeu@GHD.Com

Company Name

GHD

Company Address

2135 S. Loop 250 W.

City/State/Zip

Midland, TX 79703

Telephone No

432-686-0086

Sampler Signature

Fax No

e-mail:

Heather.Bayle@GHD.COM

16923

Project Name: Ranco Federal 22 Battery 1

Project #: 12580761

Project Loc: Lea County, NM

PO #:

Report Format

☒ Standard☐ TRRP☐ NPDES

(lab use only)

ORDER #:

FIELD CODE

BH-31A

BH-34A

SW-1A

SW-2A

SW-3A

SW-4A

SW-10A

(lab use only)

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total # of Containers

Preservation &amp; # of Containers

None

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

NaOH

H<sub>2</sub>SO<sub>4</sub>

HCl

HNO<sub>3</sub>

Ice

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

Matrix

Analyze For

TCAP

TOTAL

SAR/ESP/CEC

Anions (Cl SO<sub>4</sub> Alkalinity)

Cations (Ca Mg Na K)

TPH TX 1005

TPH TX 1006

TPH 418 8015M 8016R

Volatiles

Semivolatiles

ETEX 8021B/5030 or BTEX 8260

RCI

NORM

PUSH AT (Pre-Schedule) 24 48 72 hrs

Standard TAT

Special Instructions: Please Email: Heather, Becky

Wilk Li - mishler@VINLDP.com

Relinquished by

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Direct Bill to - Centennial Resources Production

Attn to: Nicki

Relinquished by

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Date

Time

Laboratory Comments

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep?

by Counter?

UPS

DHL

FedEx

Lone Star

Corrected

Temperature Upon Receipt

1.3

1.1°C

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-16923-1  
SDG Number: Lea County, NM

Login Number: 16923

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-18467-1

Laboratory Sample Delivery Group: Lea County, NM  
Client Project/Site: Romeo

**For:**

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

Attn: James (J.T.) Murrey

Authorized for release by:

9/6/2022 5:48:27 PM

Debbie Simmons, Project Manager  
(832)986-6768

[Debbie.Simmons@et.eurofinsus.com](mailto:Debbie.Simmons@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



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[www.eurofinsus.com/Env](http://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: Romeo

Laboratory Job ID: 880-18467-1  
SDG: Lea County, NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

**Job ID: 880-18467-1**

**Laboratory: Eurofins Midland**

### Narrative

#### Job Narrative 880-18467-1

### Comments

No additional comments.

### Receipt

The samples were received on 8/24/2022 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9° C.

### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-33696 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-33696/82).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-33696 recovered above the upper control limit for Toluene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-33696/113).

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-31B (880-18467-3), BH-34B (880-18467-4), (LCS 880-33658/1-A) and (LCSD 880-33658/2-A). 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.

### GC Semi VOA

Method 8015B NM: The method blank for preparation batch 880-32866 and analytical batch 880-32894 contained Gasoline Range Organics (GRO)-C6-C10 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

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

### Organic Prep

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

### VOA Prep

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

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

Client Sample ID: BH-3B

Lab Sample ID: 880-18467-1

Date Collected: 08/22/22 11:15

Matrix: Solid

Date Received: 08/24/22 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		08/31/22 14:40	09/02/22 00:23	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		08/31/22 14:40	09/02/22 00:23	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		08/31/22 14:40	09/02/22 00:23	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		08/31/22 14:40	09/02/22 00:23	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		08/31/22 14:40	09/02/22 00:23	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		08/31/22 14:40	09/02/22 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	08/31/22 14:40	09/02/22 00:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/31/22 14:40	09/02/22 00:23	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.0		49.9	15.0	mg/Kg			08/26/22 09:25	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	41.0	J B	49.9	15.0	mg/Kg		08/24/22 16:32	08/25/22 17:35	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		08/24/22 16:32	08/25/22 17:35	1
Oil Range Organics (Over C28-C36)	40.0	J	49.9	15.0	mg/Kg		08/24/22 16:32	08/25/22 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/24/22 16:32	08/25/22 17:35	1
o-Terphenyl	89		70 - 130	08/24/22 16:32	08/25/22 17:35	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.6		5.00	0.858	mg/Kg			08/30/22 05:41	1

Client Sample ID: BH-7B

Lab Sample ID: 880-18467-2

Date Collected: 08/22/22 12:55

Matrix: Solid

Date Received: 08/24/22 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		08/31/22 14:40	09/02/22 00:43	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		08/31/22 14:40	09/02/22 00:43	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		08/31/22 14:40	09/02/22 00:43	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		08/31/22 14:40	09/02/22 00:43	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		08/31/22 14:40	09/02/22 00:43	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		08/31/22 14:40	09/02/22 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	08/31/22 14:40	09/02/22 00:43	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/31/22 14:40	09/02/22 00:43	1

Eurofins Midland

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

Client Sample ID: BH-7B

Lab Sample ID: 880-18467-2

Date Collected: 08/22/22 12:55

Matrix: Solid

Date Received: 08/24/22 10:40

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg	-		09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.7		49.8	14.9	mg/Kg	-		08/26/22 09:25	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	40.8	J B	49.8	14.9	mg/Kg	-	08/24/22 16:32	08/25/22 17:57	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg	-	08/24/22 16:32	08/25/22 17:57	1
Oil Range Organics (Over C28-C36)	34.9	J	49.8	14.9	mg/Kg	-	08/24/22 16:32	08/25/22 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				08/24/22 16:32	08/25/22 17:57	1
o-Terphenyl	78		70 - 130				08/24/22 16:32	08/25/22 17:57	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		5.00	0.858	mg/Kg	-		08/30/22 05:50	1

Client Sample ID: BH-31B

Lab Sample ID: 880-18467-3

Date Collected: 08/23/22 10:45

Matrix: Solid

Date Received: 08/24/22 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	-	09/02/22 15:18	09/05/22 13:02	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	09/02/22 15:18	09/05/22 13:02	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	09/02/22 15:18	09/05/22 13:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg	-	09/02/22 15:18	09/05/22 13:02	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	09/02/22 15:18	09/05/22 13:02	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	09/02/22 15:18	09/05/22 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				09/02/22 15:18	09/05/22 13:02	1
1,4-Difluorobenzene (Surr)	93		70 - 130				09/02/22 15:18	09/05/22 13:02	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg	-		09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.0		50.0	15.0	mg/Kg	-		08/26/22 09:25	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	44.9	J B	50.0	15.0	mg/Kg	-	08/24/22 16:32	08/25/22 18:18	1

Eurofins Midland

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

Client Sample ID: BH-31B

Lab Sample ID: 880-18467-3

Date Collected: 08/23/22 10:45

Matrix: Solid

Date Received: 08/24/22 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		08/24/22 16:32	08/25/22 18:18	1
Oil Range Organics (Over C28-C36)	41.1	J	50.0	15.0	mg/Kg		08/24/22 16:32	08/25/22 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				08/24/22 16:32	08/25/22 18:18	1
o-Terphenyl	83		70 - 130				08/24/22 16:32	08/25/22 18:18	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		5.03	0.863	mg/Kg			08/30/22 05:59	1

Client Sample ID: BH-34B

Lab Sample ID: 880-18467-4

Date Collected: 08/23/22 11:00

Matrix: Solid

Date Received: 08/24/22 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		09/02/22 15:18	09/05/22 13:29	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		09/02/22 15:18	09/05/22 13:29	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		09/02/22 15:18	09/05/22 13:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		09/02/22 15:18	09/05/22 13:29	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		09/02/22 15:18	09/05/22 13:29	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		09/02/22 15:18	09/05/22 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				09/02/22 15:18	09/05/22 13:29	1
1,4-Difluorobenzene (Surr)	95		70 - 130				09/02/22 15:18	09/05/22 13:29	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			09/02/22 11:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	77.3		49.9	15.0	mg/Kg			08/26/22 09:25	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	40.3	J B	49.9	15.0	mg/Kg		08/24/22 16:32	08/25/22 18:39	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		08/24/22 16:32	08/25/22 18:39	1
Oil Range Organics (Over C28-C36)	37.0	J	49.9	15.0	mg/Kg		08/24/22 16:32	08/25/22 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				08/24/22 16:32	08/25/22 18:39	1
o-Terphenyl	79		70 - 130				08/24/22 16:32	08/25/22 18:39	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

Client Sample ID: BH-34B  
Date Collected: 08/23/22 11:00  
Date Received: 08/24/22 10:40

Lab Sample ID: 880-18467-4  
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.9		5.00	0.858	mg/Kg			08/30/22 06:27	1

## Surrogate Summary

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-18467-1	BH-3B	90	103
880-18467-2	BH-7B	95	105
880-18467-3	BH-31B	137 S1+	93
880-18467-4	BH-34B	151 S1+	95
LCS 880-33466/1-A	Lab Control Sample	94	99
LCS 880-33658/1-A	Lab Control Sample	141 S1+	95
LCSD 880-33466/2-A	Lab Control Sample Dup	96	101
LCSD 880-33658/2-A	Lab Control Sample Dup	137 S1+	90
MB 880-33371/5-A	Method Blank	103	69 S1-
MB 880-33466/5-A	Method Blank	78	116
MB 880-33658/5-A	Method Blank	105	71

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-18467-1	BH-3B	85	89
880-18467-2	BH-7B	77	78
880-18467-3	BH-31B	81	83
880-18467-4	BH-34B	76	79
LCS 880-32866/2-A	Lab Control Sample	81	93
LCSD 880-32866/3-A	Lab Control Sample Dup	92	108
MB 880-32866/1-A	Method Blank	88	95

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

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

Lab Sample ID: MB 880-33371/5-A

Matrix: Solid

Analysis Batch: 33696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33371

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/30/22 14:16	09/04/22 20:08	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/30/22 14:16	09/04/22 20:08	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/30/22 14:16	09/04/22 20:08	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/30/22 14:16	09/04/22 20:08	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/30/22 14:16	09/04/22 20:08	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/30/22 14:16	09/04/22 20:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/30/22 14:16	09/04/22 20:08	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	08/30/22 14:16	09/04/22 20:08	1

Lab Sample ID: MB 880-33466/5-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		08/31/22 14:40	09/01/22 18:00	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		08/31/22 14:40	09/01/22 18:00	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		08/31/22 14:40	09/01/22 18:00	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		08/31/22 14:40	09/01/22 18:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	08/31/22 14:40	09/01/22 18:00	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/31/22 14:40	09/01/22 18:00	1

Lab Sample ID: LCS 880-33466/1-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33466

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1098		mg/Kg		110	70 - 130
Toluene	0.100	0.1103		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-33466/2-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33466

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1142		mg/Kg		114	70 - 130	4	35

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-33466/2-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33466

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1143		mg/Kg		114	70 - 130	4	35
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2059		mg/Kg		103	70 - 130	4	35
o-Xylene	0.100	0.1080		mg/Kg		108	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-33658/5-A

Matrix: Solid

Analysis Batch: 33696

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		09/02/22 15:18	09/05/22 09:38	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		09/02/22 15:18	09/05/22 09:38	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		09/02/22 15:18	09/05/22 09:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		09/02/22 15:18	09/05/22 09:38	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		09/02/22 15:18	09/05/22 09:38	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		09/02/22 15:18	09/05/22 09:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/02/22 15:18	09/05/22 09:38	1
1,4-Difluorobenzene (Surr)	71		70 - 130	09/02/22 15:18	09/05/22 09:38	1

Lab Sample ID: LCS 880-33658/1-A

Matrix: Solid

Analysis Batch: 33696

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1064		mg/Kg		106	70 - 130
Toluene	0.100	0.1061		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.09992		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2000		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-33658/2-A

Matrix: Solid

Analysis Batch: 33696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33658

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1115		mg/Kg		111	70 - 130	5	35
Toluene	0.100	0.1107		mg/Kg		111	70 - 130	4	35
Ethylbenzene	0.100	0.1018		mg/Kg		102	70 - 130	2	35

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-33658/2-A

Matrix: Solid

Analysis Batch: 33696

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33658

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.2028		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.1164		mg/Kg		116	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-32866/1-A

Matrix: Solid

Analysis Batch: 32894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.81	J	50.0	15.0	mg/Kg		08/24/22 16:32	08/25/22 10:52	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		08/24/22 16:32	08/25/22 10:52	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		08/24/22 16:32	08/25/22 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/24/22 16:32	08/25/22 10:52	1
o-Terphenyl	95		70 - 130	08/24/22 16:32	08/25/22 10:52	1

Lab Sample ID: LCS 880-32866/2-A

Matrix: Solid

Analysis Batch: 32894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	858.4		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	863.3		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-32866/3-A

Matrix: Solid

Analysis Batch: 32894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32866

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	926.7		mg/Kg		93	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	979.5		mg/Kg		98	70 - 130	13	20

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-32866/3-A

Matrix: Solid

Analysis Batch: 32894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32866

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	108		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32918/1-A

Matrix: Solid

Analysis Batch: 33245

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			08/30/22 03:23		1

Lab Sample ID: LCS 880-32918/2-A

Matrix: Solid

Analysis Batch: 33245

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	251.2		mg/Kg		100	90 - 110	

Lab Sample ID: LCSD 880-32918/3-A

Matrix: Solid

Analysis Batch: 33245

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	251.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-18467-3 MS

Matrix: Solid

Analysis Batch: 33245

Client Sample ID: BH-31B

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1080		252	1314	4	mg/Kg		91	90 - 110	

Lab Sample ID: 880-18467-3 MSD

Matrix: Solid

Analysis Batch: 33245

Client Sample ID: BH-31B

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1080		252	1320	4	mg/Kg		94	90 - 110	0	20

Eurofins Midland

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

## GC VOA

## Prep Batch: 33371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33371/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 33466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18467-1	BH-3B	Total/NA	Solid	5035	
880-18467-2	BH-7B	Total/NA	Solid	5035	
MB 880-33466/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 33557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18467-1	BH-3B	Total/NA	Solid	8021B	33466
880-18467-2	BH-7B	Total/NA	Solid	8021B	33466
MB 880-33466/5-A	Method Blank	Total/NA	Solid	8021B	33466
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	8021B	33466
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33466

## Analysis Batch: 33640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18467-1	BH-3B	Total/NA	Solid	Total BTEX	
880-18467-2	BH-7B	Total/NA	Solid	Total BTEX	
880-18467-3	BH-31B	Total/NA	Solid	Total BTEX	
880-18467-4	BH-34B	Total/NA	Solid	Total BTEX	

## Prep Batch: 33658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18467-3	BH-31B	Total/NA	Solid	5035	
880-18467-4	BH-34B	Total/NA	Solid	5035	
MB 880-33658/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33658/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33658/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 33696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18467-3	BH-31B	Total/NA	Solid	8021B	33658
880-18467-4	BH-34B	Total/NA	Solid	8021B	33658
MB 880-33371/5-A	Method Blank	Total/NA	Solid	8021B	33371
MB 880-33658/5-A	Method Blank	Total/NA	Solid	8021B	33658
LCS 880-33658/1-A	Lab Control Sample	Total/NA	Solid	8021B	33658
LCSD 880-33658/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33658

## GC Semi VOA

## Prep Batch: 32866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18467-1	BH-3B	Total/NA	Solid	8015NM Prep	
880-18467-2	BH-7B	Total/NA	Solid	8015NM Prep	
880-18467-3	BH-31B	Total/NA	Solid	8015NM Prep	
880-18467-4	BH-34B	Total/NA	Solid	8015NM Prep	
MB 880-32866/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

## GC Semi VOA (Continued)

## Prep Batch: 32866 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-32866/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32866/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 32894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18467-1	BH-3B	Total/NA	Solid	8015B NM	32866
880-18467-2	BH-7B	Total/NA	Solid	8015B NM	32866
880-18467-3	BH-31B	Total/NA	Solid	8015B NM	32866
880-18467-4	BH-34B	Total/NA	Solid	8015B NM	32866
MB 880-32866/1-A	Method Blank	Total/NA	Solid	8015B NM	32866
LCS 880-32866/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32866
LCSD 880-32866/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32866

## Analysis Batch: 33030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18467-1	BH-3B	Total/NA	Solid	8015 NM	
880-18467-2	BH-7B	Total/NA	Solid	8015 NM	
880-18467-3	BH-31B	Total/NA	Solid	8015 NM	
880-18467-4	BH-34B	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 32918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18467-1	BH-3B	Soluble	Solid	DI Leach	
880-18467-2	BH-7B	Soluble	Solid	DI Leach	
880-18467-3	BH-31B	Soluble	Solid	DI Leach	
880-18467-4	BH-34B	Soluble	Solid	DI Leach	
MB 880-32918/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32918/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32918/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18467-3 MS	BH-31B	Soluble	Solid	DI Leach	
880-18467-3 MSD	BH-31B	Soluble	Solid	DI Leach	

## Analysis Batch: 33245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18467-1	BH-3B	Soluble	Solid	300.0	32918
880-18467-2	BH-7B	Soluble	Solid	300.0	32918
880-18467-3	BH-31B	Soluble	Solid	300.0	32918
880-18467-4	BH-34B	Soluble	Solid	300.0	32918
MB 880-32918/1-A	Method Blank	Soluble	Solid	300.0	32918
LCS 880-32918/2-A	Lab Control Sample	Soluble	Solid	300.0	32918
LCSD 880-32918/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32918
880-18467-3 MS	BH-31B	Soluble	Solid	300.0	32918
880-18467-3 MSD	BH-31B	Soluble	Solid	300.0	32918

Eurofins Midland

## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

Client Sample ID: BH-3B

Lab Sample ID: 880-18467-1

Date Collected: 08/22/22 11:15

Matrix: Solid

Date Received: 08/24/22 10:40

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	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 00:23	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33640	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33030	08/26/22 09:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32866	08/24/22 16:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32894	08/25/22 17:35	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32918	08/25/22 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33245	08/30/22 05:41	CH	EET MID

Client Sample ID: BH-7B

Lab Sample ID: 880-18467-2

Date Collected: 08/22/22 12:55

Matrix: Solid

Date Received: 08/24/22 10:40

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	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/02/22 00:43	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33640	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33030	08/26/22 09:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32866	08/24/22 16:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32894	08/25/22 17:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32918	08/25/22 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33245	08/30/22 05:50	CH	EET MID

Client Sample ID: BH-31B

Lab Sample ID: 880-18467-3

Date Collected: 08/23/22 10:45

Matrix: Solid

Date Received: 08/24/22 10:40

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	33658	09/02/22 15:18	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33696	09/05/22 13:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33640	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			33030	08/26/22 09:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32866	08/24/22 16:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32894	08/25/22 18:18	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32918	08/25/22 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33245	08/30/22 05:59	CH	EET MID

Client Sample ID: BH-34B

Lab Sample ID: 880-18467-4

Date Collected: 08/23/22 11:00

Matrix: Solid

Date Received: 08/24/22 10:40

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	33658	09/02/22 15:18	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33696	09/05/22 13:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			33640	09/02/22 11:24	AJ	EET MID

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Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

Client Sample ID: BH-34B  
Date Collected: 08/23/22 11:00  
Date Received: 08/24/22 10:40

Lab Sample ID: 880-18467-4  
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			33030	08/26/22 09:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32866	08/24/22 16:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	32894	08/25/22 18:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32918	08/25/22 09:42	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	33245	08/30/22 06:27	CH	EET MID

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

Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

## Method Summary

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

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

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

Eurofins Midland

Sample Summary

Client: GHD Services Inc.  
Project/Site: Romeo

Job ID: 880-18467-1  
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-18467-1	BH-3B	Solid	08/22/22 11:15	08/24/22 10:40
880-18467-2	BH-7B	Solid	08/22/22 12:55	08/24/22 10:40
880-18467-3	BH-31B	Solid	08/23/22 10:45	08/24/22 10:40
880-18467-4	BH-34B	Solid	08/23/22 11:00	08/24/22 10:40

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- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-18467-1

SDG Number: Lea County, NM

**Login Number: 18467****List Number: 1****List Source: Eurofins Midland****Creator: Rodriguez, Leticia**

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	



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2956-1

Laboratory Sample Delivery Group: 12580761  
Client Project/Site: Romeo Federal 22 Battery 1

**For:**

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

Attn: James (J.T.) Murrey

A handwritten signature in cursive script that reads "Debbie Simmons".

Authorized for release by:

9/28/2022 5:00:56 PM

Debbie Simmons, Project Manager  
(832)986-6768

[Debbie.Simmons@et.eurofinsus.com](mailto:Debbie.Simmons@et.eurofinsus.com)

#### LINKS

Review your project  
results through



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[www.eurofinsus.com/Env](http://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: Romeo Federal 22 Battery 1

Laboratory Job ID: 890-2956-1  
SDG: 12580761

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

**Job ID: 890-2956-1**

**Laboratory: Eurofins Carlsbad**

**Narrative****Job Narrative  
890-2956-1****Comments**

No additional comments.

**Receipt**

The sample was received on 9/14/2022 1:29 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

**GC VOA**

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-35226 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-35226/2). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-35092/1-A) and (LCSD 880-35092/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (CCV 880-35226/20). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-35092 and analytical batch 880-35226 recovered outside control limits for the following analytes: Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

**GC Semi VOA**

Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-34675 and analytical batch 880-34626 was outside the upper control limits.

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

**General Chemistry**

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

**Organic Prep**

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

**VOA Prep**

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

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

Client Sample ID: BH-31 C

Lab Sample ID: 890-2956-1

Date Collected: 09/12/22 13:30

Matrix: Solid

Date Received: 09/14/22 13:29

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	-	09/23/22 08:21	09/23/22 14:06	1
Toluene	<0.00199	U	0.00199	0.000453	mg/Kg	-	09/23/22 08:21	09/23/22 14:06	1
Ethylbenzene	<0.00199	U *	0.00199	0.000562	mg/Kg	-	09/23/22 08:21	09/23/22 14:06	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398	0.00100	mg/Kg	-	09/23/22 08:21	09/23/22 14:06	1
o-Xylene	<0.00199	U *	0.00199	0.000342	mg/Kg	-	09/23/22 08:21	09/23/22 14:06	1
Xylenes, Total	<0.00398	U *	0.00398	0.00100	mg/Kg	-	09/23/22 08:21	09/23/22 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/23/22 08:21	09/23/22 14:06	1
1,4-Difluorobenzene (Surr)	84		70 - 130	09/23/22 08:21	09/23/22 14:06	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	-		09/26/22 12:34	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	-		09/19/22 11:13	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	-	09/16/22 11:48	09/17/22 05:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	15.0	mg/Kg	-	09/16/22 11:48	09/17/22 05:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	15.0	mg/Kg	-	09/16/22 11:48	09/17/22 05:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	09/16/22 11:48	09/17/22 05:39	1
o-Terphenyl	96		70 - 130	09/16/22 11:48	09/17/22 05:39	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	875		4.99	0.857	mg/Kg	-		09/21/22 05:21	1

Eurofins Carlsbad

## Surrogate Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

## 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)
890-2956-1	BH-31 C	121	84
LCS 880-35092/1-A	Lab Control Sample	138 S1+	126
LCSD 880-35092/2-A	Lab Control Sample Dup	166 S1+	136 S1+
MB 880-35092/5-A	Method Blank	121	113

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-2956-1	BH-31 C	94	96
LCS 880-34675/2-A	Lab Control Sample	125	117
LCSD 880-34675/3-A	Lab Control Sample Dup	120	111
MB 880-34675/1-A	Method Blank	135 S1+	145 S1+

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

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

Lab Sample ID: MB 880-35092/5-A

Matrix: Solid

Analysis Batch: 35226

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000385	mg/Kg		09/21/22 15:19	09/23/22 11:20	1
Toluene	<0.00200	U	0.00200	0.000456	mg/Kg		09/21/22 15:19	09/23/22 11:20	1
Ethylbenzene	<0.00200	U	0.00200	0.000565	mg/Kg		09/21/22 15:19	09/23/22 11:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.00101	mg/Kg		09/21/22 15:19	09/23/22 11:20	1
o-Xylene	<0.00200	U	0.00200	0.000344	mg/Kg		09/21/22 15:19	09/23/22 11:20	1
Xylenes, Total	<0.00400	U	0.00400	0.00101	mg/Kg		09/21/22 15:19	09/23/22 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/21/22 15:19	09/23/22 11:20	1
1,4-Difluorobenzene (Surr)	113		70 - 130	09/21/22 15:19	09/23/22 11:20	1

Lab Sample ID: LCS 880-35092/1-A

Matrix: Solid

Analysis Batch: 35226

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09803		mg/Kg		98	70 - 130
Toluene	0.100	0.09879		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1144		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2610	*+	mg/Kg		131	70 - 130
o-Xylene	0.100	0.1269		mg/Kg		127	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1,4-Difluorobenzene (Surr)	126		70 - 130

Lab Sample ID: LCSD 880-35092/2-A

Matrix: Solid

Analysis Batch: 35226

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35092

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1127		mg/Kg		113	70 - 130	14	35
Toluene	0.100	0.1105		mg/Kg		110	70 - 130	11	35
Ethylbenzene	0.100	0.1355	*+	mg/Kg		136	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.3060	*+	mg/Kg		153	70 - 130	16	35
o-Xylene	0.100	0.1482	*+	mg/Kg		148	70 - 130	16	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130
1,4-Difluorobenzene (Surr)	136	S1+	70 - 130

Eurofins Carlsbad

## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

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

Lab Sample ID: MB 880-34675/1-A

Matrix: Solid

Analysis Batch: 34626

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34675

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		09/16/22 11:48	09/17/22 03:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	15.0	mg/Kg		09/16/22 11:48	09/17/22 03:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	15.0	mg/Kg		09/16/22 11:48	09/17/22 03:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				09/16/22 11:48	09/17/22 03:30	1
o-Terphenyl	145	S1+	70 - 130				09/16/22 11:48	09/17/22 03:30	1

Lab Sample ID: LCS 880-34675/2-A

Matrix: Solid

Analysis Batch: 34626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1086		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1082		mg/Kg		108	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	125		70 - 130				
o-Terphenyl	117		70 - 130				

Lab Sample ID: LCSD 880-34675/3-A

Matrix: Solid

Analysis Batch: 34626

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34675

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1081		mg/Kg		108	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1029		mg/Kg		103	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	111		70 - 130						

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34666/1-A

Matrix: Solid

Analysis Batch: 34958

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			09/21/22 03:24	1

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-34666/2-A

Matrix: Solid

Analysis Batch: 34958

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	255.4		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-34666/3-A

Matrix: Solid

Analysis Batch: 34958

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	251.8		mg/Kg		101	90 - 110	1	20

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

## GC VOA

## Prep Batch: 35092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2956-1	BH-31 C	Total/NA	Solid	5035	
MB 880-35092/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35092/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35092/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 35226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2956-1	BH-31 C	Total/NA	Solid	8021B	35092
MB 880-35092/5-A	Method Blank	Total/NA	Solid	8021B	35092
LCS 880-35092/1-A	Lab Control Sample	Total/NA	Solid	8021B	35092
LCSD 880-35092/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35092

## Analysis Batch: 35402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2956-1	BH-31 C	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 34626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2956-1	BH-31 C	Total/NA	Solid	8015B NM	34675
MB 880-34675/1-A	Method Blank	Total/NA	Solid	8015B NM	34675
LCS 880-34675/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34675
LCSD 880-34675/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34675

## Prep Batch: 34675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2956-1	BH-31 C	Total/NA	Solid	8015NM Prep	
MB 880-34675/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34675/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34675/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 34824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2956-1	BH-31 C	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 34666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2956-1	BH-31 C	Soluble	Solid	DI Leach	
MB 880-34666/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34666/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34666/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Analysis Batch: 34958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2956-1	BH-31 C	Soluble	Solid	300.0	34666
MB 880-34666/1-A	Method Blank	Soluble	Solid	300.0	34666
LCS 880-34666/2-A	Lab Control Sample	Soluble	Solid	300.0	34666
LCSD 880-34666/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34666

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## Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

Client Sample ID: BH-31 C

Lab Sample ID: 890-2956-1

Date Collected: 09/12/22 13:30

Matrix: Solid

Date Received: 09/14/22 13:29

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	35092	09/23/22 08:21	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35226	09/23/22 14:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35402	09/26/22 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			34824	09/19/22 11:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34675	09/16/22 11:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34626	09/17/22 05:39	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34666	09/16/22 10:42	CH	EET MID
Soluble	Analysis	300.0		1			34958	09/21/22 05:21	CH	EET MID

## Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

## Method Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

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

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

Sample Summary

Client: GHD Services Inc.  
Project/Site: Romeo Federal 22 Battery 1

Job ID: 890-2956-1  
SDG: 12580761

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2956-1	BH-31 C	Solid	09/12/22 13:30	09/14/22 13:29	4'

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

## Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Environment Testing

**Xenco**

**Work Order No:**

Page 1 of 1  
www.xenco.com

Work Order Comments											
Program:		UST/PST	<input type="checkbox"/>	PRP	<input type="checkbox"/>	Brownfields	<input type="checkbox"/>	RRC	<input type="checkbox"/>	Superfund	<input type="checkbox"/>
State of Project:											
Reporting:		Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	PST/UST	<input type="checkbox"/>	TRRP	<input type="checkbox"/>	Level IV	<input type="checkbox"/>
Deliverables:		EDD	<input type="checkbox"/>			ADaPT	<input type="checkbox"/>	Other:			

Project Manager:	JT MURREY			Bill to: (if different)
Company Name:	GHD			Company Name:
Address:	2135 S. COOP			Address:
City, State ZIP:	MIDLAND, TX 79703			City, State ZIP:
Phone:	432-181-0081			IT. MURREY @ GHD.COM
Email:				

[illegible]

	Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO <sub>2</sub>	Na	Sr	Ti	Sn	V	Zn
Circle Method(s) and Metal(s) to be analyzed			TCLP / SPLP6010 :	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U			Hg:	1631 / 245.1	7470 / 7471					

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$95.00 will be applied to each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Chen	Amanda Sief	9/14/00 13:39			
3						
6						

Revised Date: 08/15/2020 Rev: 2020.2

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-2956-1

SDG Number: 12580761

**Login Number: 2956****List Number: 1****Creator: Stutzman, Amanda****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: 890-2956-1

SDG Number: 12580761

**Login Number: 2956****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 09/16/22 11:00 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	



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 12/5/2022 5:47:03 PM

## JOB DESCRIPTION

Romero Battery Release  
SDG NUMBER Rurual of Eunice, NM

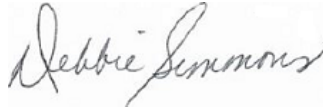
## JOB NUMBER

880-21947-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

**Eurofins Midland****Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

**Authorization**

Generated  
12/5/2022 5:47:03 PM

Authorized for release by  
Debbie Simmons, Project Manager  
[Debbie.Simmons@et.eurofinsus.com](mailto:Debbie.Simmons@et.eurofinsus.com)  
(832)986-6768

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Laboratory Job ID: 880-21947-1  
SDG: Rural of Eunice, NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.

## HPLC/IC

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

**Job ID: 880-21947-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-21947-1****Receipt**

The sample was received on 11/28/2022 1:46 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

**Receipt Exceptions**

The following sample was received and analyzed from an unpreserved bulk soil jar: SW-11 (880-21947-1).

**GC VOA**

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-40456 and 880-40468 and analytical batch 880-40542 was outside the control limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-40514 and analytical batch 880-40408 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40514/2-A) and (LCSD 880-40514/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: SW-11 (880-21947-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The method blank for preparation batch 880-40514 and analytical batch 880-40408 contained Gasoline Range Organics (GRO)-C6-C10 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40514 and analytical batch 880-40408 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.

**HPLC/IC**

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

## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

Client Sample ID: SW-11

Lab Sample ID: 880-21947-1

Date Collected: 11/23/22 09:30

Matrix: Solid

Date Received: 11/28/22 13:46

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		11/29/22 13:24	11/30/22 12:43	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		11/29/22 13:24	11/30/22 12:43	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		11/29/22 13:24	11/30/22 12:43	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		11/29/22 13:24	11/30/22 12:43	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		11/29/22 13:24	11/30/22 12:43	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		11/29/22 13:24	11/30/22 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	11/29/22 13:24	11/30/22 12:43	1
1,4-Difluorobenzene (Surr)	110		70 - 130	11/29/22 13:24	11/30/22 12:43	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			11/30/22 14:30	1

## Method: SW846 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			11/29/22 12:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.9	J B F2	50.0	15.0	mg/Kg		11/28/22 16:34	11/29/22 02:12	1
Diesel Range Organics (Over C10-C28)	<15.0	U F1	50.0	15.0	mg/Kg		11/28/22 16:34	11/29/22 02:12	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		11/28/22 16:34	11/29/22 02:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				11/28/22 16:34	11/29/22 02:12	1
o-Terphenyl	151	S1+	70 - 130				11/28/22 16:34	11/29/22 02:12	1

## Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.1		5.05	0.399	mg/Kg			11/28/22 19:35	1

## Surrogate Summary

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-21947-1	SW-11	109	110
LCS 880-40468/1-A	Lab Control Sample	91	108
LCSD 880-40468/2-A	Lab Control Sample Dup	93	102
MB 880-40456/5-A	Method Blank	63 S1-	97
MB 880-40468/5-A	Method Blank	64 S1-	91
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-21947-1	SW-11	139 S1+	151 S1+
880-21947-1 MS	SW-11	120	106
880-21947-1 MSD	SW-11	100	104
LCS 880-40514/2-A	Lab Control Sample	135 S1+	139 S1+
LCSD 880-40514/3-A	Lab Control Sample Dup	190 S1+	187 S1+
MB 880-40514/1-A	Method Blank	136 S1+	150 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

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

Lab Sample ID: MB 880-40456/5-A

Matrix: Solid

Analysis Batch: 40542

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40456

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		11/28/22 12:33	11/29/22 11:44	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		11/28/22 12:33	11/29/22 11:44	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		11/28/22 12:33	11/29/22 11:44	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		11/28/22 12:33	11/29/22 11:44	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		11/28/22 12:33	11/29/22 11:44	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		11/28/22 12:33	11/29/22 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	11/28/22 12:33	11/29/22 11:44	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/28/22 12:33	11/29/22 11:44	1

Lab Sample ID: MB 880-40468/5-A

Matrix: Solid

Analysis Batch: 40542

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		11/28/22 14:12	11/30/22 01:56	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		11/28/22 14:12	11/30/22 01:56	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		11/28/22 14:12	11/30/22 01:56	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		11/28/22 14:12	11/30/22 01:56	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		11/28/22 14:12	11/30/22 01:56	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		11/28/22 14:12	11/30/22 01:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130	11/28/22 14:12	11/30/22 01:56	1
1,4-Difluorobenzene (Surr)	91		70 - 130	11/28/22 14:12	11/30/22 01:56	1

Lab Sample ID: LCS 880-40468/1-A

Matrix: Solid

Analysis Batch: 40542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1124		mg/Kg		112	70 - 130
Toluene	0.100	0.09729		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.08761		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1740		mg/Kg		87	70 - 130
o-Xylene	0.100	0.09189		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-40468/2-A

Matrix: Solid

Analysis Batch: 40542

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40468

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1194		mg/Kg		119	70 - 130	6	35

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rrural of Eunice, NM

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

Lab Sample ID: LCSD 880-40468/2-A

Matrix: Solid

Analysis Batch: 40542

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40468

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1035		mg/Kg		104	70 - 130	6	35
Ethylbenzene	0.100	0.09377		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1884		mg/Kg		94	70 - 130	8	35
o-Xylene	0.100	0.09769		mg/Kg		98	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-40514/1-A

Matrix: Solid

Analysis Batch: 40408

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.05	J	50.0	15.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		11/28/22 16:34	11/29/22 06:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	11/28/22 16:34	11/29/22 06:30	1
o-Terphenyl	150	S1+	70 - 130	11/28/22 16:34	11/29/22 06:30	1

Lab Sample ID: LCS 880-40514/2-A

Matrix: Solid

Analysis Batch: 40408

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1074		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	995.7		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	135	S1+	70 - 130
o-Terphenyl	139	S1+	70 - 130

Lab Sample ID: LCSD 880-40514/3-A

Matrix: Solid

Analysis Batch: 40408

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40514

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	903.6		mg/Kg		90	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	990.3		mg/Kg		99	70 - 130	1	20

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

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

Lab Sample ID: LCSD 880-40514/3-A

Matrix: Solid

Analysis Batch: 40408

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40514

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	190	S1+	70 - 130
o-Terphenyl	187	S1+	70 - 130

Lab Sample ID: 880-21947-1 MS

Matrix: Solid

Analysis Batch: 40408

Client Sample ID: SW-11

Prep Type: Total/NA

Prep Batch: 40514

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	29.9	J B F2	999	1202		mg/Kg		117	70 - 130	
Diesel Range Organics (Over C10-C28)	<15.0	U F1	999	1382	F1	mg/Kg		138	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	120		70 - 130							
o-Terphenyl	106		70 - 130							

Lab Sample ID: 880-21947-1 MSD

Matrix: Solid

Analysis Batch: 40408

Client Sample ID: SW-11

Prep Type: Total/NA

Prep Batch: 40514

	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	29.9	J B F2	997	926.9	F2	mg/Kg		90	70 - 130	26	20	
Diesel Range Organics (Over C10-C28)	<15.0	U F1	997	1267		mg/Kg		127	70 - 130	9	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	100		70 - 130									
o-Terphenyl	104		70 - 130									

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40467/1-A

Matrix: Solid

Analysis Batch: 40515

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			11/28/22 18:35		1

Lab Sample ID: LCS 880-40467/2-A

Matrix: Solid

Analysis Batch: 40515

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	261.2		mg/Kg		104	90 - 110			

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QC Sample Results

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-40467/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 40515											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	250	262.8		mg/Kg		105	90 - 110	1	20		

## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

## GC VOA

## Prep Batch: 40456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40456/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 40468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21947-1	SW-11	Total/NA	Solid	5035	
MB 880-40468/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40468/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40468/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 40542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21947-1	SW-11	Total/NA	Solid	8021B	40468
MB 880-40456/5-A	Method Blank	Total/NA	Solid	8021B	40456
MB 880-40468/5-A	Method Blank	Total/NA	Solid	8021B	40468
LCS 880-40468/1-A	Lab Control Sample	Total/NA	Solid	8021B	40468
LCSD 880-40468/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40468

## Analysis Batch: 40718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21947-1	SW-11	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 40408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21947-1	SW-11	Total/NA	Solid	8015B NM	40514
MB 880-40514/1-A	Method Blank	Total/NA	Solid	8015B NM	40514
LCS 880-40514/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40514
LCSD 880-40514/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40514
880-21947-1 MS	SW-11	Total/NA	Solid	8015B NM	40514
880-21947-1 MSD	SW-11	Total/NA	Solid	8015B NM	40514

## Prep Batch: 40514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21947-1	SW-11	Total/NA	Solid	8015NM Prep	
MB 880-40514/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40514/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40514/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21947-1 MS	SW-11	Total/NA	Solid	8015NM Prep	
880-21947-1 MSD	SW-11	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 40605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21947-1	SW-11	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 40467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21947-1	SW-11	Soluble	Solid	DI Leach	
MB 880-40467/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40467/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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QC Association Summary

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

HPLC/IC (Continued)

Leach Batch: 40467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-40467/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 40515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-21947-1	SW-11	Soluble	Solid	300.0	40467
MB 880-40467/1-A	Method Blank	Soluble	Solid	300.0	40467
LCS 880-40467/2-A	Lab Control Sample	Soluble	Solid	300.0	40467
LCSD 880-40467/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40467

Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

Client Sample ID: SW-11  
Date Collected: 11/23/22 09:30  
Date Received: 11/28/22 13:46

Lab Sample ID: 880-21947-1  
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			4.99 g	5 mL	40468	11/29/22 13:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40542	11/30/22 12:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40718	11/30/22 14:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			40605	11/29/22 12:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	40514	11/28/22 16:34	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40408	11/29/22 02:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	40467	11/28/22 13:50	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40515	11/28/22 19:35	CH	EET MID

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

Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

## Method Summary

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

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

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

Sample Summary

Client: GHD Services Inc.  
Project/Site: Romero Battery Release

Job ID: 880-21947-1  
SDG: Rurual of Eunice, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-21947-1	SW-11	Solid	11/23/22 09:30	11/28/22 13:46

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



Environment Testing  
Xenco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300  
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334  
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3195

## Chain of Custody

**Work Order No:**

21547

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[illegible]

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-21947-1  
SDG Number: Rurual of Eunice, NM

Login Number: 21947

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## **Attachment B Photographic Log**



4/27/2022 - Northern area of excavation facing north.



4/27/2022 - Northern area of excavation facing northwest.



**Site Photographic Log**  
**CRP Romeo Federal 22 Battery 1 Release Site**  
GHD | Report for CRP | 12580761



4/27/2022 - Southwest corner of upper excavation area facing northeast.



4/27/2022 - Southern area of excavation facing southeast.



**Site Photographic Log**  
**CRP Romeo Federal 22 Battery 1 Release Site**  
GHD | Report for CRP | 12580761



4/27/2022 - Southern area of excavation facing southeast.



4/27/2022 - Southern area of excavation facing east.



**Site Photographic Log**  
**CRP Romeo Federal 22 Battery 1 Release Site**  
GHD | Report for CRP | 12580761



4/27/2022 - Northern area of excavation facing east.



4/27/2022 - Northern area of excavation facing east.



**Site Photographic Log**  
**CRP Romeo Federal 22 Battery 1 Release Site**  
GHD | Report for CRP | 12580761



4/27/2022 - Northern area of excavation facing east.



4/27/2022 - Northern area of excavation facing southeast.



**Site Photographic Log**  
**CRP Romeo Federal 22 Battery 1 Release Site**  
GHD | Report for CRP | 12580761



4/27/2022 - Northern area of excavation facing south.



9/14/2022 - Southern tip of excavation facing north.



**Site Photographic Log**  
**CRP Romeo Federal 22 Battery 1 Release Site**  
GHD | Report for CRP | 12580761



8/25/2022 - Northern area of excavation facing north.



8/25/2022 - Northern area of excavation facing north.



**Site Photographic Log**  
**CRP Romeo Federal 22 Battery 1 Release Site**  
GHD | Report for CRP | 12580761

## **Attachment C**

# **Sampling Notifications and Extensions**

**Nate Reece**

---

**From:** J.T. Murrey  
**Sent:** Thursday, December 8, 2022 10:34 AM  
**To:** Nate Reece  
**Subject:** FW: [EXTERNAL] RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

**DISABLEFILINGSTATUS:** 0

**J.T. Murrey****GHD**

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2135 S. Loop 250 West, Midland, TX 79703 USA  
M 361 252 6136 | E [jt.murrey@ghd.com](mailto:jt.murrey@ghd.com)

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Canada: 800 679 9082

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**From:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Sent:** Friday, November 18, 2022 11:14 AM  
**To:** J.T. Murrey <[JT.Murrey@ghd.com](mailto:JT.Murrey@ghd.com)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@emnrd.nm.gov](mailto:Jennifer.Nobui@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

You don't often get email from [ocd.enviro@emnrd.nm.gov](mailto:ocd.enviro@emnrd.nm.gov). [Learn why this is important](#)

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
<http://www.emnrd.nm.gov>



---

**From:** J.T. Murrey <[JT.Murrey@ghd.com](mailto:JT.Murrey@ghd.com)>  
**Sent:** Friday, November 18, 2022 9:45 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

To Whom it May Concern,

GHD on behalf of Centennial Resource Production, Inc., respectfully submits notification of sampling to be conducted at the below location.

Romeo Federal 22 Battery 1  
D-22-24S-34E  
Lea County, NM  
nAPP2208051921

Sampling will begin at 9:00 a.m. on Wednesday, November 23, 2022.

Thank You,

**J.T. Murrey**

**GHD**

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2135 S. Loop 250 West, Midland, TX 79703 USA  
**M** 361 252 6136 | **E** [jt.murrey@ghd.com](mailto:jt.murrey@ghd.com)

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**From:** Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>  
**Sent:** Friday, September 9, 2022 10:06 AM  
**To:** J.T. Murrey <[JT.Murrey@ghd.com](mailto:JT.Murrey@ghd.com)>  
**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>;  
Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@state.nm.us](mailto:Jocelyn.Harimon@state.nm.us)>  
**Subject:** FW: [EXTERNAL] RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

You don't often get email from [jennifer.nobui@state.nm.us](mailto:jennifer.nobui@state.nm.us). [Learn why this is important](#)

J.T.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,  
Jennifer Nobui

---

**From:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>

**Sent:** Friday, September 9, 2022 8:27 AM

**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>; Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@state.nm.us](mailto:Jocelyn.Harimon@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>

**Subject:** Fw: [EXTERNAL] RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

---

**From:** J.T. Murrey <[JT.Murrey@ghd.com](mailto:JT.Murrey@ghd.com)>

**Sent:** Thursday, September 8, 2022 12:53 PM

**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>

**Cc:** [nikki.mishler@cdevinc.com](mailto:nikki.mishler@cdevinc.com) <[Nikki.Mishler@cdevinc.com](mailto:Nikki.Mishler@cdevinc.com)>; Glenn Quinney <[Glenn.Quinney@ghd.com](mailto:Glenn.Quinney@ghd.com)>

**Subject:** [EXTERNAL] RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of Centennial Resource Production, Inc., respectfully submits notification of sampling to be conducted at the below location.

Romeo Federal 22 Battery 1  
D-22-24S-34E  
Lea County, NM  
nAPP2208051921

Sampling will begin at 2:00 p.m. on Monday, September 12, 2022.

Thank You,

**J.T. Murrey**  
Senior Project Manager

**GHD**

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2135 S. Loop 250 West, Midland, TX 79703 USA  
M 361 252 6136 | E [jt.murrey@ghd.com](mailto:jt.murrey@ghd.com)

**GHD FIRST 24 Hour Emergency Response**

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**From:** J.T. Murrey  
**Sent:** Tuesday, August 16, 2022 2:18 PM  
**To:** [ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us)  
**Cc:** [nikki.mishler@cdevinc.com](mailto:nikki.mishler@cdevinc.com); Heath Boyd <[Heath.Boyd@ghd.com](mailto:Heath.Boyd@ghd.com)>; Glenn Quinney <[Glenn.Quinney@ghd.com](mailto:Glenn.Quinney@ghd.com)>  
**Subject:** RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

To Whom it May Concern,

GHD on behalf of Centennial Resource Production, Inc., respectfully submits notification of sampling to be conducted at the below location.

Romeo Federal 22 Battery 1  
D-22-24S-34E  
Lea County, NM  
nAPP2208051921

Sampling will begin at 12:00 p.m. on Monday, August 22, 2022 and will be continuous through Thursday, August 25, 2022.

Thank You,

**J.T. Murrey**  
Senior Project Manager

## GHD

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1712 S. Staples St., Corpus Christi, Texas 78404

D 1 361 232 4280 | M 361 252 6136 | E [jt.murrey@ghd.com](mailto:jt.murrey@ghd.com)

## GHD FIRST 24 Hour Emergency Response

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Canada: 800 679 9082

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**From:** Becky Haskell <[Becky.Haskell@ghd.com](mailto:Becky.Haskell@ghd.com)>  
**Sent:** Thursday, April 14, 2022 2:31 PM  
**To:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)  
**Cc:** [nikki.mishler@cdevinc.com](mailto:nikki.mishler@cdevinc.com); Zach Comino <[Zach.Comino@ghd.com](mailto:Zach.Comino@ghd.com)>; Becky Haskell <[Becky.Haskell@ghd.com](mailto:Becky.Haskell@ghd.com)>  
**Subject:** Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

To Whom it May Concern,

GHD on behalf of Centennial Resource Production, Inc., respectfully submits notification of sampling to be conducted at the below location.

Romeo Federal 22 Battery 1  
D-22-24S-34E  
Lea County, NM

nAPP2208051921

Sampling will begin at 1:45 p.m. on Tuesday, April 19, 2022 and will be continuous through Friday, April 22, 2022.

Thank You,

**Thank You,**

**Becky Haskell**  
Senior Project Manager

**GHD**  
Proudly employee owned | [ghd.com](https://ghd.com)  
2135 S. Loop 250 West, Midland, Texas 79703  
D 432-686-0086 M 432-250-7917 E [becky.haskell@ghd.com](mailto:becky.haskell@ghd.com)

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## Becky Haskell

---

**From:** Heath Boyd  
**Sent:** Wednesday, July 6, 2022 3:44 PM  
**To:** OCD.enviro@state.nm.us  
**Cc:** Becky Haskell; nikki.mishler@cdevinc.com; Heath Boyd; J.T. Murrey  
**Subject:** Sampling notification

**DISABLEFILINGSTA10**

To Whom it May Concern,

GHD on behalf of Centennial Resource Production, Inc., respectfully submits notification of sampling to be conducted at the below location.

Romeo Federal 22 Battery 1  
D-22-24S-34E  
Lea County, NM  
nAPP2208051921

Sampling will begin at 9:30 a.m. on Monday, July 11, 2022 and will be continuous through Friday, July 15, 2022.

Heath D. Boyd  
Environmental Technician

GHD  
2135 S. Loop 250 W.  
Midland, TX 79703  
Mobile: 432-210-7306  
Office: 432-686-0086  
Email: Heath.Boyd@GHD.com

**From:** [Nobui, Jennifer, EMNRD](#)  
**To:** [J.T. Murrey](#)  
**Cc:** [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)  
**Subject:** FW: [EXTERNAL] RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)  
**Date:** Friday, September 9, 2022 10:06:41 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)

---

You don't often get email from [jennifer.nobui@state.nm.us](mailto:jennifer.nobui@state.nm.us). [Learn why this is important](#)

J.T.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,  
Jennifer Nobui

---

**From:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>  
**Sent:** Friday, September 9, 2022 8:27 AM  
**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>; Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@state.nm.us](mailto:Jocelyn.Harimon@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>  
**Subject:** Fw: [EXTERNAL] RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

---

**From:** J.T. Murrey <[JT.Murrey@ghd.com](mailto:JT.Murrey@ghd.com)>  
**Sent:** Thursday, September 8, 2022 12:53 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>  
**Cc:** [nikki.mishler@cdevinc.com](mailto:nikki.mishler@cdevinc.com) <[Nikki.Mishler@cdevinc.com](mailto:Nikki.Mishler@cdevinc.com)>; Glenn Quinney <[Glenn.Quinney@ghd.com](mailto:Glenn.Quinney@ghd.com)>  
**Subject:** [EXTERNAL] RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of Centennial Resource Production, Inc., respectfully submits notification of sampling to be conducted at the below location.

Romeo Federal 22 Battery 1  
D-22-24S-34E  
Lea County, NM  
nAPP2208051921

Sampling will begin at 2:00 p.m. on Monday, September 12, 2022.

Thank You,

**J.T. Murrey**  
Senior Project Manager

**GHD**  
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2135 S. Loop 250 West, Midland, TX 79703 USA  
M 361 252 6136 | E [jt.murrey@ghd.com](mailto:jt.murrey@ghd.com)

**GHD FIRST 24 Hour Emergency Response**  
US: 866 812 9565  
Canada: 800 679 9082

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**From:** J.T. Murrey  
**Sent:** Tuesday, August 16, 2022 2:18 PM  
**To:** [ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us)  
**Cc:** [nikki.mishler@cdevinc.com](mailto:nikki.mishler@cdevinc.com); Heath Boyd <[Heath.Boyd@ghd.com](mailto:Heath.Boyd@ghd.com)>; Glenn Quinney <[Glenn.Quinney@ghd.com](mailto:Glenn.Quinney@ghd.com)>  
**Subject:** RE: Romeo Federal 22 Battery 1 (nAPP2208051921 Sampling Notification)

To Whom it May Concern,

GHD on behalf of Centennial Resource Production, Inc., respectfully submits notification of sampling to be conducted at the below location.

Romeo Federal 22 Battery 1  
D-22-24S-34E  
Lea County, NM  
nAPP2208051921

Sampling will begin at 12:00 p.m. on Monday, August 22, 2022 and will be continuous through Thursday, August 25, 2022.

Thank You,

**J.T. Murrey**  
Senior Project Manager

**GHD**  
Proudly employee-owned | [ghd.com](https://ghd.com)  
1712 S. Staples St., Corpus Christi, Texas 78404  
D 1 361 232 4280 | M 361 252 6136 | E [jt.murrey@ghd.com](mailto:jt.murrey@ghd.com)

**Nate Reece**

---

**From:** Nikki Mishler <Nikki.Mishler@permianres.com>  
**Sent:** Monday, December 12, 2022 8:38 AM  
**To:** Nate Reece  
**Subject:** FW: -EXTERNAL- RE: [EXTERNAL] nAPP2208051921 - Request for Extension

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---

**From:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>  
**Sent:** Wednesday, September 14, 2022 3:41 PM  
**To:** Nikki Mishler <Nikki.Mishler@cdevinc.com>  
**Cc:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>  
**Subject:** -EXTERNAL- RE: [EXTERNAL] nAPP2208051921 - Request for Extension

**WARNING:** The sender of this email could not be validated and may not match the person in the "From" field.

Hello Nikki

OCD approves a request for a 90-day extension to December 23, 2022 to submit a closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks  
Jennifer Nobui

---

**From:** Nikki Mishler <[Nikki.Mishler@cdevinc.com](mailto:Nikki.Mishler@cdevinc.com)>  
**Sent:** Wednesday, September 14, 2022 12:32 PM  
**To:** Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>  
**Subject:** [EXTERNAL] nAPP2208051921 - Request for Extension

**CAUTION:** This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon Jennifer,

I would like to request a 90-day extension to complete remediation activities and submit the closure report for the below release at the Romeo 22 Federal Battery. A few areas at the site required more excavation activities than originally anticipated and has delayed completion of field activities. At this time, final confirmation soil samples have been submitted to the laboratory. If laboratory analytical results indicate the release site has been remediated to the criteria referenced in the approved Remediation Plan, the site will be backfilled, and a closure report will be submitted to the OCD.

Thank you,

Nikki Mishler  
432-634-8722

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>

**Sent:** Wednesday, June 22, 2022 11:14 AM

**To:** Nikki Mishler <[Nikki.Mishler@cdevinc.com](mailto:Nikki.Mishler@cdevinc.com)>

**Subject:** -EXTERNAL- The Oil Conservation Division (OCD) has approved the application, Application ID: 117478

**WARNING:** The sender of this email could not be validated and may not match the person in the "From" field.

To whom it may concern (c/o Nikki Mishler for CENTENNIAL RESOURCE PRODUCTION, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2208051921, with the following conditions:

- **Remediation Plan Approved. Please request Deferral in final Remediation Summary Report once excavation activities have been completed.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,

Jennifer Nobui

Environmental Specialist-Advanced

505-476-3441

[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)

**New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505

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**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 166198

CONDITIONS

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 166198
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	1/10/2023