Released Volume Calculation

Length	170 feet
Width	74 feet
Thickness	0.5 in

6,290 gal = 150 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 6,290 gallons (US, dry)

150 Bbls

Site Characterization Report and Remediation Workplan

March 14, 2025

Lamunyon 56 (Central Tank Battery)
Oil Release
Incident No. nAPP2412157442
Lea County, New Mexico

Prepared For:

FAE II Operating, LLC
11757 Katy Freeway, Suite 725
Houston, Texas 77079

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

Cynthia K. Crain, P.G.

Grain Environmental

Table of Contents

1.0 Introduction

Crain Environmental (CE), on behalf of FAE II Operating, LLC (FAE), has prepared this *Site Characterization Report and Remediation Workplan* for the oil release at Lamunyon 56/Central Tank Battery (Site), located approximately 10 miles southeast of Eunice, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release are 32.2811001, -103.1614532. The property surface rights are privately owned. Land use in the Site vicinity is primarily oil and gas production activity and cattle grazing. The location of the Site is depicted on Figure 1.

2.0 Background

On April 29, 2024, a release from a storage tank at the Lamunyon #56 (Central Tank Battery) was discovered. As a result of overflow of the tank, approximately 150 barrels (bbls) of crude oil were released. Immediately following the release, the area was secured, a vacuum truck was mobilized to the Site, and the tank was repaired. The released fluid covered a surface area of approximately 3,828 square feet. Approximately 145 bbl of fluid were recovered. Impacted soil was removed from the surface and hauled to an NMOCD approved disposal facility. The release point and the surface extent of the release are depicted on Figure 2.

A Notification of Release (NOR) was submitted to the New Mexico Oil Conservation Division (NMOCD) on April 30, 2024, and Incident #nAPP2412157442 was assigned.

On October 3, 2024, the NMOCD approved an extension request until December 27, 2024, to submit a Site Characterization Report and Remediation Workplan (Workplan). On December 19, 2024, the NMOCD approved a 90-day extension for submitting the Workplan by March 17, 2025. Appendix B provides a copy of NMOCD correspondence.

This *Site Characterization Report and Remediation Workplan* is being submitted prior to the due date of March 17, 2025, in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC).

3.0 NMOCD Closure Criteria

Cleanup standards for produced water spills are provided in 19.15.29 NMAC. The cleanup standards (described in the rule as “Closure Criteria”) are based primarily on depth to groundwater but are also based on other criteria. Three different Closure Criteria are provided in the rule. The most stringent apply to sites where groundwater is found within 50 feet of the ground surface or if the release occurred within one of the following areas:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.

- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

CE reviewed available information to determine the Closure Criteria for the Site. The findings of this evaluation are summarized below.

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there is one water well located within 0.5 mile of the Site (CP 00375 POD 1) drilled to a depth of 160 feet below ground surface (bgs); however, a date of installation and a depth to groundwater was not provided. NMOSE records indicated that five additional wells are located within 1 mile of the Site (CP 00480 POD 1, CP 00440 POD 1, CP 01555 POD 1, CP 01555 POD 2, and CP 00407); however, only well CP 00480 POD 1 provided an installation date (April 14, 1968) and a depth to groundwater (600 feet bgs). A review of the United State Geological Survey (USGS) database indicated no water wells were located within 1 mile of the Site. All wells within a 1-mile radius are listed in the table below. Figure 3 provides 0.5-mile radius and a 1-mile radius circles around the Site and shows the locations of each well. A NMOSE Point of Diversion Summary for each well is provided in Appendix B.

Based on the available water well data, it is estimated that depth to groundwater at the Site is greater than 100 feet bgs.

Nearby Water Wells

Well ID	Location from Release Site	Year Installed	Use	Total Depth / Depth to Water (feet bgs)
CP 00375 POD 1	Approx. 2,099 feet to NE	Unknown	N/A	160 / Unknown
CP 00480 POD 1	Approx. 4,787 feet to NE	1968	N/A	6,281 / 600
CP 00440 POD 1	Approx. 4,760 feet to SE	Unknown	N/A	Unknown / Unknown
CP 01555 POD 1	Approx. 4,873 feet to SE	Unknown	N/A	Unknown / Unknown
CP 01555 POD 2	Approx. 4,682 feet to SE	Unknown	N/A	Unknown / Unknown
CP 00407	Approx. 3,257 feet to SW	Unknown	N/A	Unknown / Unknown

3.2 Surface Features and Other Development

CE reviewed recent aerial photographs, topographic maps, the NMOSE Point of Discharge (POD) GIS website, and information available from the Lea County, New Mexico Central Appraisal District website. As shown on Figure 1, the Site is **not** located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
    - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
    - The topographic map (Figure 1) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
    - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
    - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
    - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
    - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
    - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a “low karst potential” area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located outside of a 100-year floodplain. Figures 4, 5, and 6 depict the USFWS map, the FEMA floodplain map, and the karst potential map, respectively.

3.4 Closure Criteria Currently Assumed Applicable to the Site

From the surface to a depth of 4’ bgs, the most stringent NMOCD Closure Criteria will apply. As soil samples from the investigation reported concentrations of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and chlorides below the test method detection limits, the Closure Criteria at depths greater than 4’ bgs will not be applicable. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

Constituent of Concern		Closure Criteria Based on Depth to Groundwater (mg/kg)		
		≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs
Chloride (EPA 300)		600	10,000	20,000
TPH (EPA 8015M)	GRO + DRO + MRO	100	2,500	2,500
	GRO + DRO	NA	1,000	1,000
Total BTEX (EPA 8021 or 8260)		50	50	50
Benzene (EPA 8021 or 8260)		10	10	10

Notes: NA = not applicable
bgs = below ground surface
mg/kg = milligrams per kilogram
GRO = gasoline range organics
DRO = diesel range organics
MRO = motor oil range organics
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, and total xylenes
Green highlighted cells denote applicable Closure Criteria.

4.0 Site Assessment/Characterization Results

As per 19.15.29.11 NMAC, a Site Characterization Report will have the components described in Sections 4.1 through 4.5 of this document.

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities is provided as Figure 2.

4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown; however, based on NMOSE records, depth to groundwater is estimated be greater than 100’ bgs at the Site.

4.3 Wellhead Protection Area

The 0.5-mile and 1-mile wellhead protection areas are shown on Figure 3. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site.

4.5 Initial Delineation Activities

Prior to the soil investigation, an Electromagnetic (EM) Survey was conducted by Atkins Engineering (Atkins) of Carlsbad, New Mexico. On January 16, 2025, soil samples (TH-1 through TH-13) were collected at 13 locations throughout the release area (as indicated by the EM Survey) to determine the vertical and horizontal limits of the impact. Samples were collected from each location at a depth of 1' bgs, and a total depth of 4.1' bgs. Soil samples were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Eurofins Environment Testing (Eurofins) in Midland, Texas under proper chain-of-custody control. All samples were analyzed for TPH by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, for BTEX by EPA SW-846 Method 8021B, and for chlorides by Method EPA Method 300.0.

Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations within the EM Survey area. The laboratory report with chain-of-custody documentation is provided in Appendix C. Photographic documentation is provided in Appendix D.

Referring to Table 1, concentrations of TPH and BTEX were reported below the test method detection limits in all samples. Concentrations of chlorides were reported below either the test method detection limits or Closure Criteria in all samples.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Job Number 880-53358-1 generated by Eurofins, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided in Appendix C.

5.0 Proposed Remediation Workplan

As concentrations of TPH, BTEX, and chlorides were reported below the Closure Criteria in all samples, FAE proposes to collect samples from the TH-1 through TH-13 locations at depths of 1' and 2' bgs, following proper NMOCD sampling notification.

Upon receipt of laboratory results that all TPH, BTEX, and chloride concentrations are below the Closure Criteria, a Remediation Summary and Closure Report will be submitted to the NMOCD.

FAE respectfully requests a remediation schedule of 90 days from the date of NMOCD approval of this Remediation Workplan to complete the proposed activities and submit a *Remediation Summary and Closure Report* for NMOCD approval. The closure report will summarize investigation activities and confirmation sampling results.

6.0 Distribution

Copy 1: Mike Bratcher
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Copy 2: Billy Moore
Forty Acres Energy, LLC
11757 Katy Freeway, Suite 725
Houston, Texas 77079

TABLE

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FAE II OPERATING, LLC
LAMUNYON 56 / CENTRAL TANK BATTERY
NMOCD INCIDENT # nAPP2412157442

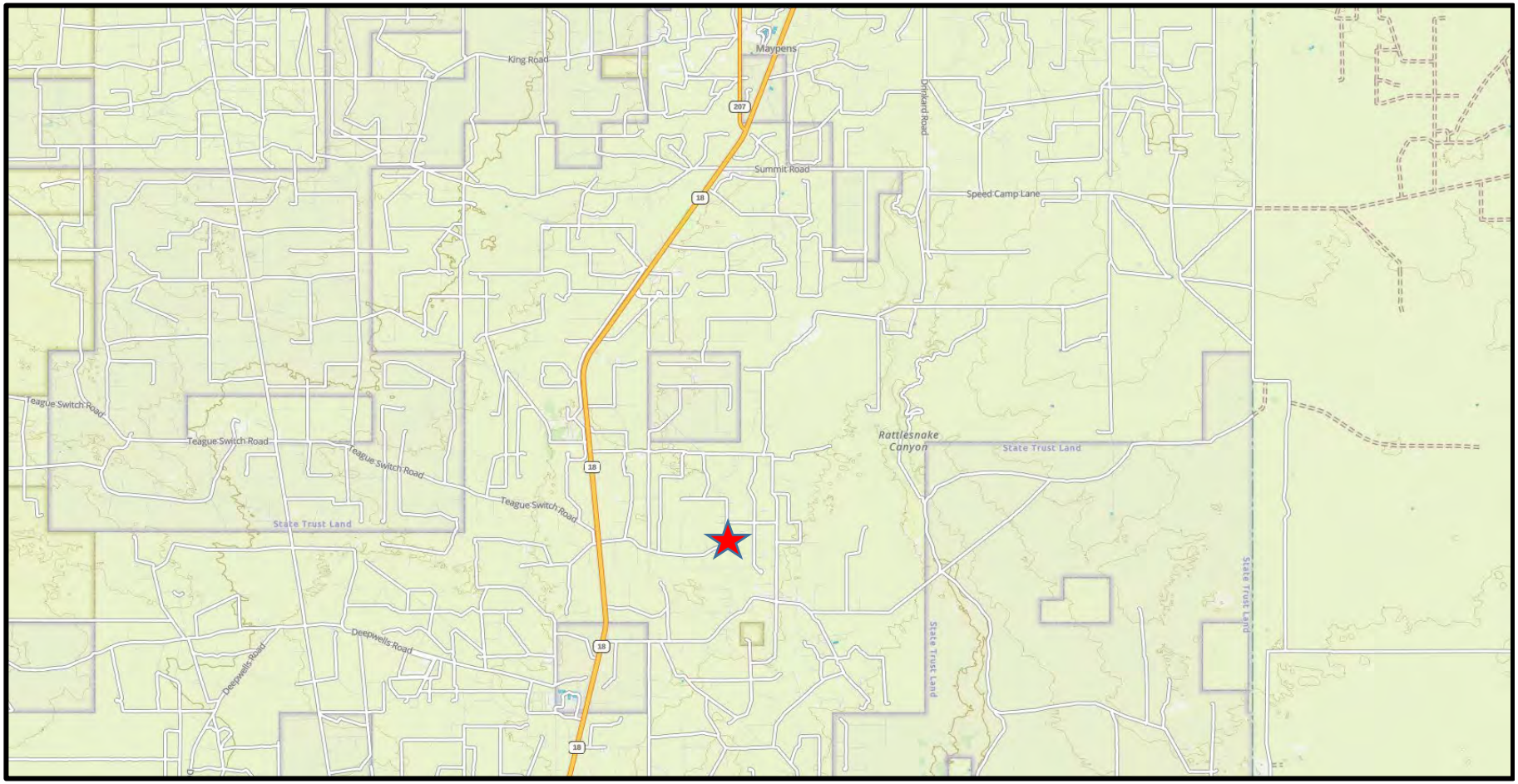
Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							**100**	**10**	**-**	**-**	**-**	**50**	**600**
NMOCD Closure Criteria (>4' bgs)				**GRO + DRO = 1,000**		**-**	**2,500**	**10**	**-**	**-**	**-**	**50**	**20,000**
TH-1 (1')	01/16/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<2.02
TH-1 (4.1')	01/16/25	4.1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<2.00
TH-2 (1')	01/16/25	1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<1.99
TH-2 (4.1')	01/16/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<1.98
TH-3 (1')	01/16/25	1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<2.02
TH-3 (4.1')	01/16/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<2.01
TH-4 (1')	01/16/25	1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<10.1
TH-4 (4.1')	01/16/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<9.98
TH-5 (1')	01/16/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<10.1
TH-5 (4.1')	01/16/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<9.96
TH-6 (1')	01/16/25	1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**121**
TH-6 (4.1')	01/16/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	**20.9**
TH-7 (1')	01/16/25	1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	**27.4**
TH-7 (4.1')	01/16/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**16.5**
TH-8 (1')	01/16/25	1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**57.9**
TH-8 (4.1')	01/16/25	4.1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**89.4**
TH-9 (1')	01/16/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<10.0
TH-9 (4.1')	01/16/25	4.1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**31.8**
TH-10 (1')	01/16/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<9.96
TH-10 (4.1')	01/16/25	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<10.1
TH-11 (1')	01/16/25	1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	**10.8**
TH-11 (4.1')	01/16/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**241**
TH-12 (1')	01/16/25	1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<10.1
TH-12 (4.1')	01/16/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.98
TH-13 (1')	01/16/25	1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<10.0
TH-13 (4.1')	01/16/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.94

Notes:

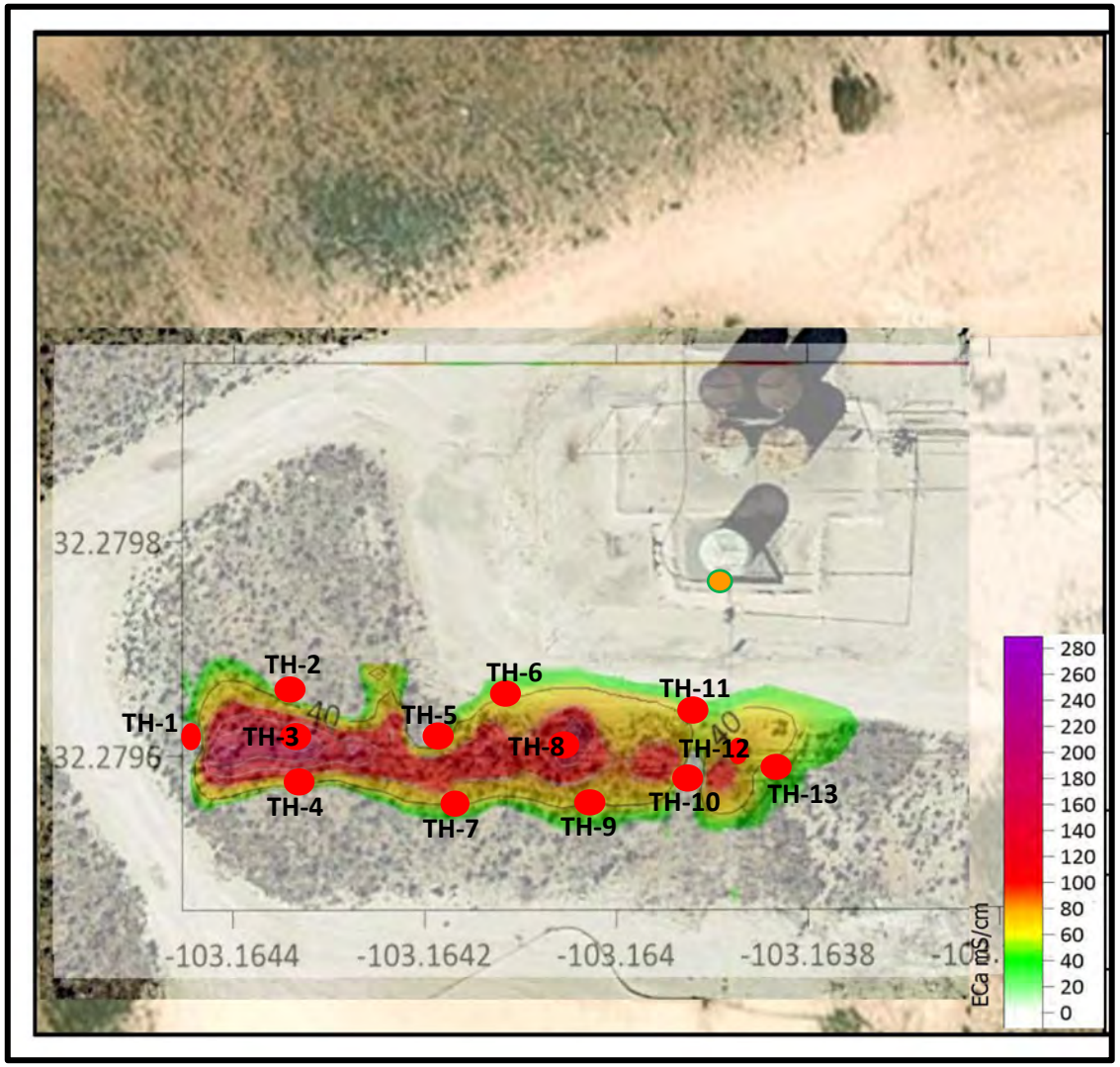
1. GRO: Gasoline Range Organics
2. DRO: Diesel Range Organics
3. MRO: Motor Oil Range Organics
4. -: No NMOCD Closure Criteria established.
5. bgs: Below Ground Surface
6. Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
7. < indicates the COC was below the appropriate laboratory method/sample detection limit.

Grain Environmental

FIGURES



LEGEND: Site Location Base Map From GAIA GPS	**Figure 1** **Site Location Map** FAE II Operating, LLC Lamunyon 56 / Central Tank Battery Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: March 12, 2025 GPS: 32.2811001 -103.1614532°	Grain Environmental



LEGEND:

TH-2 Soil Sample Location with Sample Number.

Release Point

Base Map From Google Earth Pro

Figure 2

Sample Location Map

FAE II Operating, LLC

Lamunyon #56/Central Battery

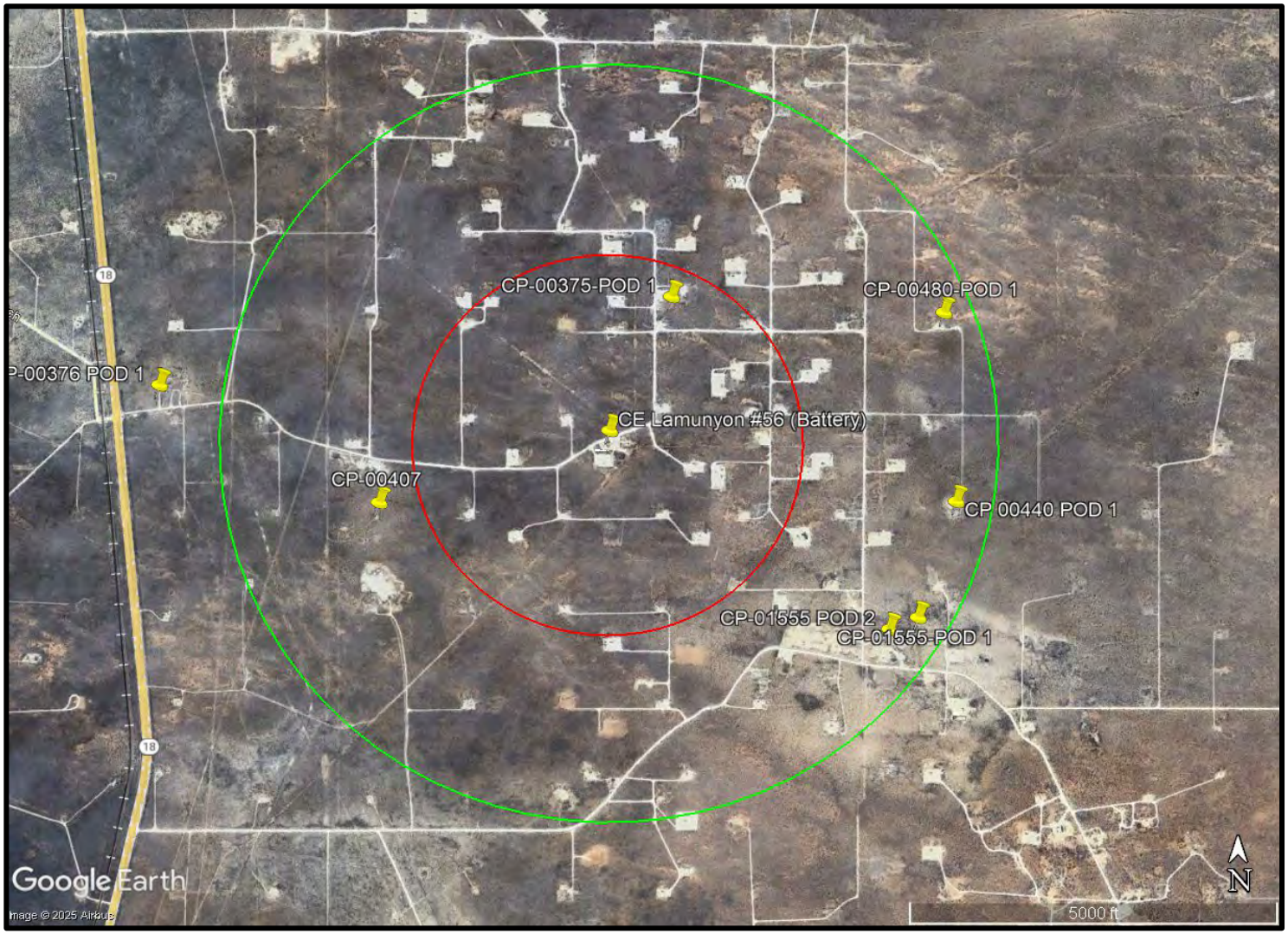
Lea County, New Mexico

Drafted by: CC | Checked by: CC

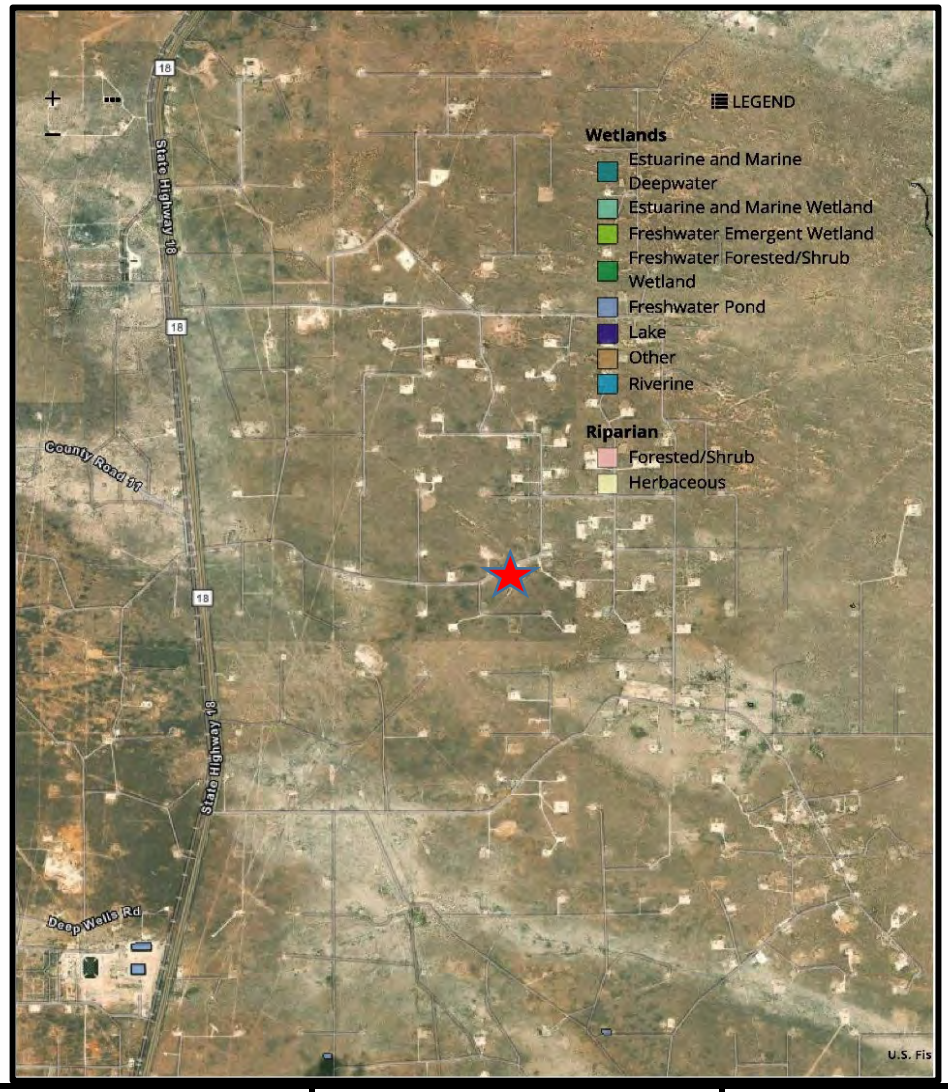
Draft: March 12, 2025

GPS: 32.2811001 -103.1614532

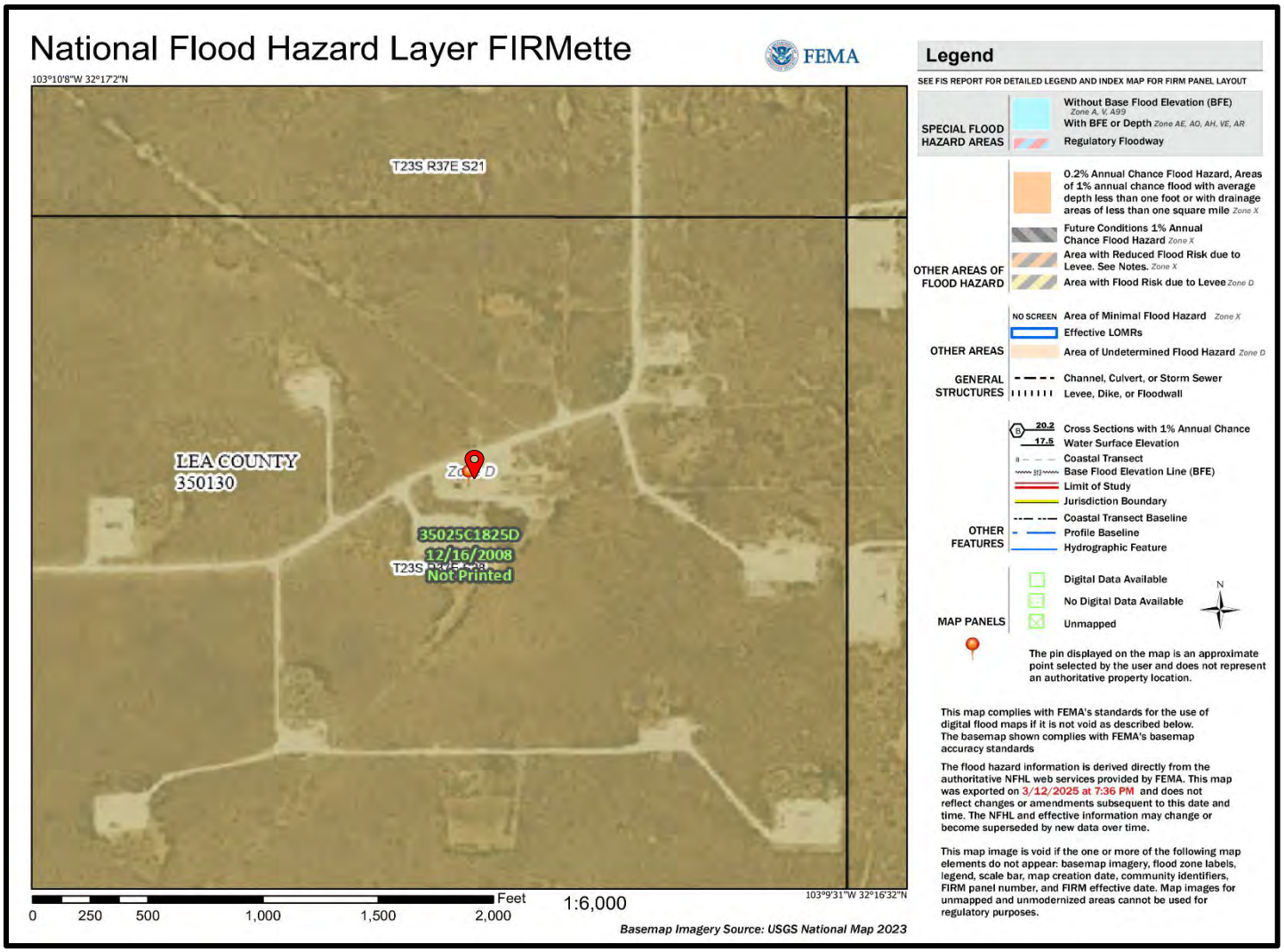
Grain Environmental



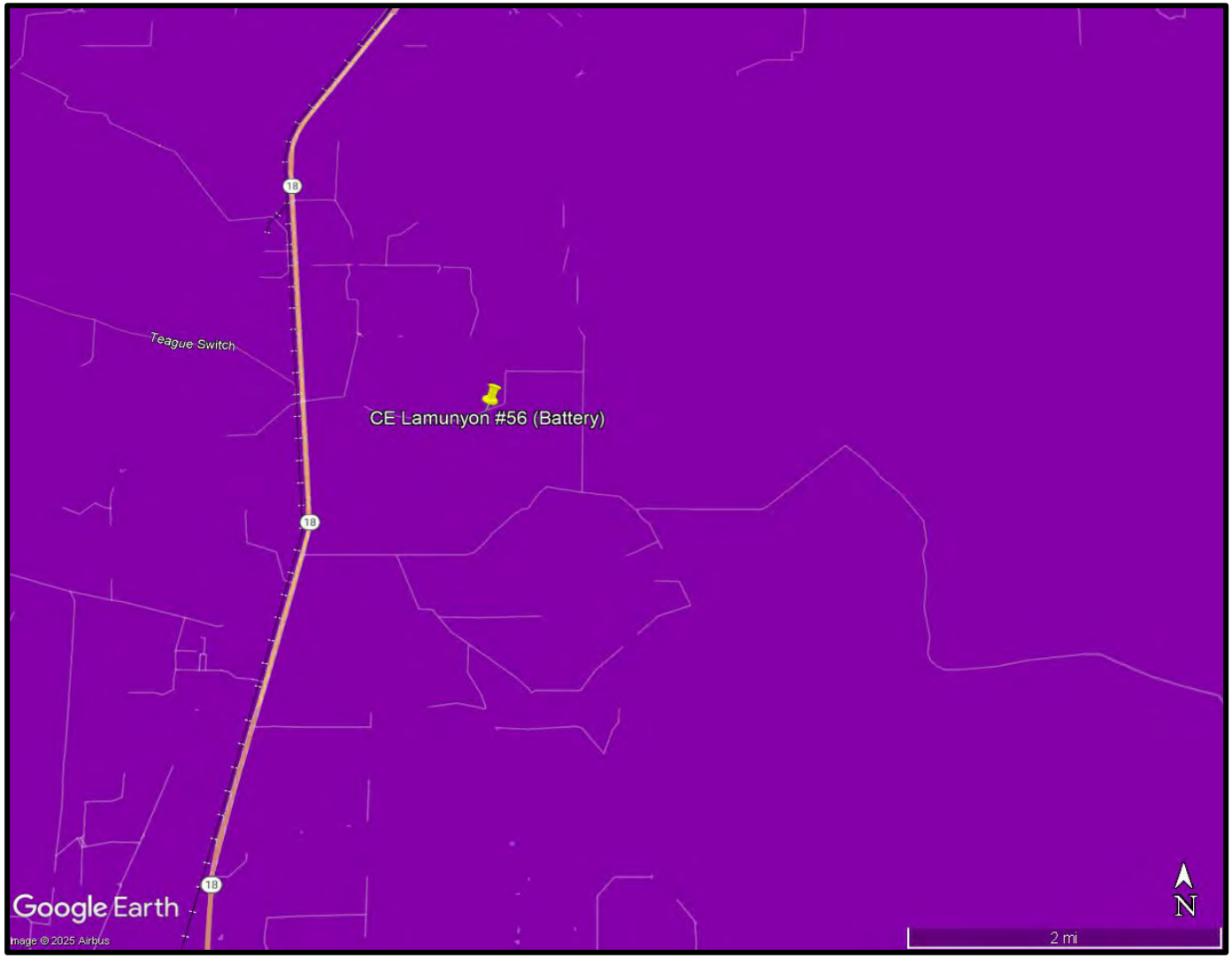
LEGEND: Site and Well Location 0.5-Mile Radius 1-Mile Radius Base Map From Google Earth Pro	**Figure 3** **Wellhead Protection Area Map** FAE II Operating, LLC Lamunyon 56 / Central Tank Battery Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: March 12, 2025 GPS: 32.2811001 -103.1614532°



LEGEND: Site Location Base Map From US Fish & Wildlife Service	**Figure 4** **National Wetlands** **Inventory Map** FAE II Operating, LLC Lamunyon 56 / Central Tank Battery Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: March 12, 2025 GPS: 32.2811001 -103.1614532°



LEGEND: Site Location Base Map From FEMA	**Figure 5** **FEMA Floodplain Map** FAE II Operating, LLC Lamunyon 56 / Central Tank Battery Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: March 12, 2025 GPS: 32.2811001 -103.1614532°



LEGEND: Low Karst Potential Medium Karst Potential High Karst Potential Base Map From Google Earth Pro and BLM	**Figure 6** **Karst Potential Map** FAE II Operating, LLC Lamunyon 56 / Central Tank Battery Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: March 12, 2025 GPS: 32.2811001 -103.1614532°	Grain Environmental

Appendix A: NMOCD Correspondence

Gmail Cindy Crain <cindy.crain@gmail.com>

FW: FAE II Operating C141 Extension Request for Incident # nAPP2412157442 (C E Lamunyon #056)

1 message

Adam Holcomb <adam@faenergyus.com> Wed, Dec 4, 2024 at 1:18 PM
To: Cindy Crain <cindy.crain@gmail.com>

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Thursday, October 3, 2024 8:14 AM
To: Alex Bolanos <alex@faenergyus.com>
Cc: Adam Holcomb <adam@faenergyus.com>
Subject: FAE II Operating C141 Extension Request for Incident # nAPP2412157442 (C E Lamunyon #056)

Good morning Alex,

Thank you for the correspondence.

The incident remediation closure report due date (RCRDD) had lapsed after July 29, 2024. In the future, please submit your requests prior to its RCRDD. Failure to do so may result in any request being denied.

Given the circumstance, your request for a time extension request is approved. The Remediation Due date has been updated to 12/27/2024.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience. Thank you.

Regards,

Nelson Velez ● Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd

Previous email submittal:

Alex Bolanos<alex@faenergyus.com>

To:Velez, Nelson, EMNRD

Cc:Adam Holcomb <adam@faenergyus.com>

Wed 10/2/2024 9:31 AM

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

I hope all is well with you. There are a few releases that we are still working through that we would like to try a get an extension on. Please see below:

Incident Number	Location
nAPP2411049662	LAMUNYON 022
nAPP2410851745	LAMUNYON 023

nAPP2412157442	LAMUNYON 056

These are behind because we have devoted our resources to closing out (5) other FAE II releases. Please see below:

Incident Number	Location
nAPP2225654053	Farnsworth 4 #007 / SWD
NAPP2336333754	EC HILL B 001
nAPP2321657306	Eva Blineberry #20
nAPP2304957943	Arnott Ramsay NCT-B Battery
nAPP2228055393	TOM CLOSSON #1 BATT (HISTORICAL)

Now that we have gotten the above submitted for closure, we are able to free up our consultant(s) and field operators. We intend on having them complete the next (3) through the end of the year.

Please let me know if you need additional information or would like to discuss.

Thanks Nelson.

Alex Bolanos

Regulatory/Production

Forty Acres Energy

(c) 836-689-3788

alex@faenergyus.com

RE: FAE II Operating C141 Extension Request

Inbox

Alex Bolanos
to Nelson,, Adam, Billy, me, Rogelio

Dec 16, 2024, 4:49 PM

Nelson,

We are still working through these (3) incidents. Please see working updates below for each of them.

- Tom Closson (Incident #nAPP2228055393) - current due date is 12/16/24 – Depth to water 100' bgs has been confirmed at Tom Closson. Confirmed we will use Hydroger instead of micro-blaze for treatment. Now gathering treatment info for Hydrogen Peroxide.
- Lamunyon 56 (Incident #nAPP2412157442) - current due date is 12/17/24 – EM Survey Complete, now confirmation sampling to be completed shortly.
- Lamunyon 23 (Incident #nAPP2410851745) - current due date is 12/16/24 – EM Survey Complete, now confirmation sampling to be completed shortly.

Accordingly, we are requesting a 90-day extension in order to complete confirmation sampling for the Lamunyon wells and complete the treatment plan and treat the Tom Closson. W have the reports before the end of the requested extension.

Thanks,
Alex Bolanos

From: Alex Bolanos
Sent: Wednesday, October 2, 2024 10:31 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Adam Holcomb <adam@faenergyus.com>
Subject: FAE II Operating C141 Extension Request

Nelson,

I hope all is well with you. There are a few releases that we are still working through that we would like to try a get an extension on. Please see below:

Incident Number	Location
nAPP2411049662	LAMUNYON 022
nAPP2410851745	LAMUNYON 023
nAPP2412157442	LAMUNYON 056

These are behind because we have devoted our resources to closing out (5) other FAE II releases. Please see below:

Incident Number	Location
nAPP2225654053	Farnsworth 4 #007 / SWD
NAPP2336333754	EC HILL B 001
nAPP2321657306	Eva Blineberry #20
nAPP2304957943	Arnott Ramsay NCT-B Battery
nAPP2228055393	TOM CLOSSON #1 BATT (HISTORICAL)

Now that we have gotten the above submitted for closure, we are able to free up our consultant(s) and field operators. We intend on having them complete the next (3) through the year.

Please let me know if you need additional information or would like to discuss.

Thanks Nelson.

Alex Bolanos
Regulatory/Production
Forty Acres Energy
(c) 836-689-3788
alex@faenergyus.com

Velez, Nelson, EMNRD
to Alex, Adam, Billy, me, Rogelio

Dec 19, 2024, 4:18 PM

Good afternoon Alex,

Thanks for the correspondence. In reviewing the 3 incidents, the following are my determination for each;

1. Tom Closson #001 - time extension is denied. Please re-submit your remediation plan addressing the reasons of rejection or the final remediation closu as soon as possible.
2. Lamunyon 23 - 90-day time extension is approved. Remediation Due date has been updated to March 17, 2025.
3. Lamunyon 56 - 90-day time extension is approved. Remediation Due date has been updated to March 17, 2025.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence requirec included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variar

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

Appendix B: NMOSE Point of Diversion Summaries

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	CP 00407		SW	NW	28	23S	37E	671939.0	3572624.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	**Driller Company:**	
Driller Name:		
Drill Start Date:	**Drill Finish Date:**	**Plug Date:**
Log File Date:	**PCW Rcv Date:**	**Source:**
Pump Type:	**Pipe Discharge Size:**	**Estimated Yield:**
Casing Size:	**Depth Well:**	**Depth Water:**

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	CP 00440 POD1		SW	NE	27	23S	37E	674354.0	3572663.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	**Driller Company:**	
Driller Name:		
Drill Start Date:	**Drill Finish Date:**	**Plug Date:**
Log File Date:	**PCW Rcv Date:**	**Source:**
Pump Type:	**Pipe Discharge Size:**	**Estimated Yield:**
Casing Size:	**Depth Well:**	**Depth Water:**

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	CP 00480 POD1		SW	SE	22	23S	37E	674340.0	3573467.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	466	**Driller Company:**	CLARKE OIL WELL SERVICING, INC		
Driller Name:	BAILEY, IKE				
Drill Start Date:	1968-04-14	**Drill Finish Date:**	1970-04-27	**Plug Date:**	
Log File Date:	1970-05-04	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.50	**Depth Well:**	6281	**Depth Water:**	600

Water Bearing Stratifications:

Top	Bottom	Description
3861	5036	Other/Unknown

Casing Perforations:

Top	Bottom
4207	4548

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	CP 01555 POD1	SW	NW	SE	27	23S	37E	674227.9	3572201.6	

*** UTM location was derived from PLSS - see Help**

Driller License:	**Driller Company:**	
Driller Name:		
Drill Start Date:	**Drill Finish Date:**	**Plug Date:**
Log File Date:	**PCW Rcv Date:**	**Source:**
Pump Type:	**Pipe Discharge Size:**	**Estimated Yield:**
Casing Size:	**Depth Well:**	**Depth Water:**

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	CP 01555 POD2	SE	NE	SW	27	23S	37E	674093.3	3572109.9	

*** UTM location was derived from PLSS - see Help**

Driller License:	**Driller Company:**	
Driller Name:		
Drill Start Date:	**Drill Finish Date:**	**Plug Date:**
Log File Date:	**PCW Rcv Date:**	**Source:**
Pump Type:	**Pipe Discharge Size:**	**Estimated Yield:**
Casing Size:	**Depth Well:**	**Depth Water:**

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	CP 00375 POD1		SE	SE	21	23S	37E	673133.0	3573448.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	122	**Driller Company:**	UNKNOWN		
Driller Name:					
Drill Start Date:		**Drill Finish Date:**		**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	6.75	**Depth Well:**	160	**Depth Water:**	

Grain Environmental

Appendix C: Laboratory Reports and Chain-of-Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Cindy Crain
Crain Environmental
2925 E. 17th St.
Odessa, Texas 79761

Generated 1/22/2025 1:38:41 PM

JOB DESCRIPTION

Lamunyon 561 CTB
Lea CO NM

JOB NUMBER

880-53358-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

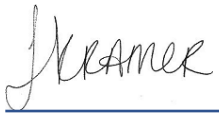
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/22/2025 1:38:41 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Laboratory Job ID: 880-53358-1
SDG: Lea CO NM

Table of Contents

Definitions/Glossary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Lamunyon 561 CTB

Job ID: 880-53358-1

Job ID: 880-53358-1 Eurofins Midland

Job Narrative
880-53358-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/17/2025 8:27 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C.

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-100557 and analytical batch 880-100650 was outside the control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-100557 and analytical batch 880-100650 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TH-6 (4.1') (880-53358-12), TH-7 (4.1') (880-53358-14), TH-8 (1') (880-53358-15), TH-8 (4.1') (880-53358-16), TH-9 (1') (880-53358-17), TH-10 (4.1') (880-53358-20) and TH-13 (4.1') (880-53358-26). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: TH-7 (1') (880-53358-13), TH-10 (1') (880-53358-19), TH-11 (1') (880-53358-21), TH-11 (4.1') (880-53358-22), (880-53358-A-12-C MS) and (880-53358-A-12-D MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: TH-2 (1') (880-53358-3), TH-4 (1') (880-53358-7), TH-4 (4.1') (880-53358-8), TH-5 (4.1') (880-53358-10), TH-6 (1') (880-53358-11) and (LCSD 880-100556/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-100556 and analytical batch 880-100739 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-100602 and analytical batch 880-100629 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-1 (1')

Lab Sample ID: 880-53358-1
Matrix: Solid
Date Collected: 01/16/25 11:30
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 14:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 14:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 14:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 14:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 14:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/17/25 11:14*	*01/17/25 14:02*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/17/25 11:14*	*01/17/25 14:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 11:29	01/21/25 15:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/17/25 11:29	01/21/25 15:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 11:29	01/21/25 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/17/25 11:29*	*01/21/25 15:22*	*1*
o-Terphenyl	*73*		*70 - 130*	*01/17/25 11:29*	*01/21/25 15:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.02	U	2.02		mg/Kg			01/20/25 20:25	1

Client Sample ID: TH-1 (4.1')

Lab Sample ID: 880-53358-2
Matrix: Solid
Date Collected: 01/16/25 11:45
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 14:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 14:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 14:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/17/25 11:14	01/17/25 14:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 14:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/17/25 11:14	01/17/25 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/17/25 11:14*	*01/17/25 14:22*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/17/25 11:14*	*01/17/25 14:22*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-1 (4.1')

Lab Sample ID: 880-53358-2
Matrix: Solid
Date Collected: 01/16/25 11:45
Date Received: 01/17/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/17/25 14:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/21/25 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/17/25 11:29	01/21/25 15:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		01/17/25 11:29	01/21/25 15:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/17/25 11:29	01/21/25 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/17/25 11:29*	*01/21/25 15:51*	*1*
o-Terphenyl	*73*		*70 - 130*	*01/17/25 11:29*	*01/21/25 15:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.00	U	2.00		mg/Kg			01/20/25 20:31	1

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-53358-3
Matrix: Solid
Date Collected: 01/16/25 11:50
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 14:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 14:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 14:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/17/25 11:14	01/17/25 14:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 14:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/17/25 11:14	01/17/25 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/17/25 11:14*	*01/17/25 14:43*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/17/25 11:14*	*01/17/25 14:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/17/25 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/21/25 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 11:29	01/21/25 16:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/17/25 11:29	01/21/25 16:05	1

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-53358-3
Matrix: Solid
Date Collected: 01/16/25 11:50
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 11:29	01/21/25 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*01/17/25 11:29*	*01/21/25 16:05*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*01/17/25 11:29*	*01/21/25 16:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.99	U	1.99		mg/Kg			01/20/25 20:37	1

Client Sample ID: TH-2 (4.1')

Lab Sample ID: 880-53358-4
Matrix: Solid
Date Collected: 01/16/25 12:05
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 15:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 15:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 15:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/17/25 11:14	01/17/25 15:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 15:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/17/25 11:14	01/17/25 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/17/25 11:14*	*01/17/25 15:03*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/17/25 11:14*	*01/17/25 15:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/17/25 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/21/25 16:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 11:29	01/21/25 16:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/17/25 11:29	01/21/25 16:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 11:29	01/21/25 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*01/17/25 11:29*	*01/21/25 16:19*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/17/25 11:29*	*01/21/25 16:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.98	U	1.98		mg/Kg			01/20/25 20:54	1

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-3 (1')

Lab Sample ID: 880-53358-5
Matrix: Solid
Date Collected: 01/16/25 12:10
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 15:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 15:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 15:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 15:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 15:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/17/25 11:14*	*01/17/25 15:24*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/17/25 11:14*	*01/17/25 15:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/21/25 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/17/25 11:29	01/21/25 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/17/25 11:29	01/21/25 16:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/25 11:29	01/21/25 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/17/25 11:29*	*01/21/25 16:33*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/17/25 11:29*	*01/21/25 16:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.02	U	2.02		mg/Kg			01/20/25 20:59	1

Client Sample ID: TH-3 (4.1')

Lab Sample ID: 880-53358-6
Matrix: Solid
Date Collected: 01/16/25 12:25
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 15:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 15:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 15:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/17/25 11:14	01/17/25 15:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 15:44	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/17/25 11:14	01/17/25 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/17/25 11:14*	*01/17/25 15:44*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/17/25 11:14*	*01/17/25 15:44*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-3 (4.1')

Lab Sample ID: 880-53358-6
Matrix: Solid
Date Collected: 01/16/25 12:25
Date Received: 01/17/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/17/25 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 11:29	01/21/25 16:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/17/25 11:29	01/21/25 16:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 11:29	01/21/25 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*01/17/25 11:29*	*01/21/25 16:47*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/17/25 11:29*	*01/21/25 16:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.01	U	2.01		mg/Kg			01/20/25 21:05	1

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-53358-7
Matrix: Solid
Date Collected: 01/16/25 12:30
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 16:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 16:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 16:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/17/25 11:14	01/17/25 16:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 16:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/17/25 11:14	01/17/25 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/17/25 11:14*	*01/17/25 16:05*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/17/25 11:14*	*01/17/25 16:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/17/25 16:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/21/25 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/17/25 11:29	01/21/25 17:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		01/17/25 11:29	01/21/25 17:02	1

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-53358-7
Matrix: Solid
Date Collected: 01/16/25 12:30
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/25 11:29	01/21/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*01/17/25 11:29*	*01/21/25 17:02*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*01/17/25 11:29*	*01/21/25 17:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			01/20/25 23:31	1

Client Sample ID: TH-4 (4.1')

Lab Sample ID: 880-53358-8
Matrix: Solid
Date Collected: 01/16/25 12:45
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 16:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 16:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 16:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/17/25 11:14	01/17/25 16:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 16:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/17/25 11:14	01/17/25 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/17/25 11:14*	*01/17/25 16:25*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/17/25 11:14*	*01/17/25 16:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/17/25 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/21/25 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 11:29	01/21/25 17:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		01/17/25 11:29	01/21/25 17:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 11:29	01/21/25 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*01/17/25 11:29*	*01/21/25 17:15*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*01/17/25 11:29*	*01/21/25 17:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			01/20/25 23:53	1

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-5 (1')

Lab Sample ID: 880-53358-9
Matrix: Solid
Date Collected: 01/16/25 12:50
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 16:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 16:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 16:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 16:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 16:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/17/25 11:14*	*01/17/25 16:46*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/17/25 11:14*	*01/17/25 16:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 16:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 11:29	01/21/25 17:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/17/25 11:29	01/21/25 17:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 11:29	01/21/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*01/17/25 11:29*	*01/21/25 17:30*	*1*
o-Terphenyl	*70*		*70 - 130*	*01/17/25 11:29*	*01/21/25 17:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			01/21/25 00:01	1

Client Sample ID: TH-5 (4.1')

Lab Sample ID: 880-53358-10
Matrix: Solid
Date Collected: 01/16/25 13:05
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 17:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 17:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 17:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/17/25 11:14	01/17/25 17:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 17:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/17/25 11:14	01/17/25 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*01/17/25 11:14*	*01/17/25 17:06*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/17/25 11:14*	*01/17/25 17:06*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-5 (4.1')

Lab Sample ID: 880-53358-10
Matrix: Solid
Date Collected: 01/16/25 13:05
Date Received: 01/17/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/17/25 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 17:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 11:29	01/21/25 17:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		01/17/25 11:29	01/21/25 17:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 11:29	01/21/25 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*63*	*S1-*	*70 - 130*	*01/17/25 11:29*	*01/21/25 17:44*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*01/17/25 11:29*	*01/21/25 17:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			01/21/25 00:08	1

Client Sample ID: TH-6 (1')

Lab Sample ID: 880-53358-11
Matrix: Solid
Date Collected: 01/16/25 13:10
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 18:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 18:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 18:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 18:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 18:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/17/25 11:14*	*01/17/25 18:41*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/17/25 11:14*	*01/17/25 18:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/21/25 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/17/25 11:29	01/21/25 17:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		01/17/25 11:29	01/21/25 17:58	1

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-6 (1')

Lab Sample ID: 880-53358-11
Matrix: Solid
Date Collected: 01/16/25 13:10
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/17/25 11:29	01/21/25 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*01/17/25 11:29*	*01/21/25 17:58*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*01/17/25 11:29*	*01/21/25 17:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**121**		9.94		mg/Kg			01/21/25 00:16	1

Client Sample ID: TH-6 (4.1')

Lab Sample ID: 880-53358-12
Matrix: Solid
Date Collected: 01/16/25 13:25
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 19:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 19:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 19:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/17/25 11:14	01/17/25 19:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 19:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/17/25 11:14	01/17/25 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/17/25 11:14*	*01/17/25 19:01*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/17/25 11:14*	*01/17/25 19:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/17/25 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/20/25 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	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 12:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		01/17/25 11:32	01/20/25 12:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*01/17/25 11:32*	*01/20/25 12:08*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 12:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.9**		10.1		mg/Kg			01/21/25 00:38	1

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-7 (1')

Lab Sample ID: 880-53358-13
Matrix: Solid
Date Collected: 01/16/25 13:30
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 19:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 19:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 19:22	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/17/25 11:14	01/17/25 19:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 19:22	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/17/25 11:14	01/17/25 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*01/17/25 11:14*	*01/17/25 19:22*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/17/25 11:14*	*01/17/25 19:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/17/25 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/20/25 12:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/17/25 11:32	01/20/25 12:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		01/17/25 11:32	01/20/25 12:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/25 11:32	01/20/25 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 12:55*	*1*
o-Terphenyl	*62*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 12:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.4**		10.1		mg/Kg			01/21/25 00:45	1

Client Sample ID: TH-7 (4.1')

Lab Sample ID: 880-53358-14
Matrix: Solid
Date Collected: 01/16/25 13:45
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 19:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 19:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 19:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/17/25 11:14	01/17/25 19:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 19:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/17/25 11:14	01/17/25 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/17/25 11:14*	*01/17/25 19:42*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/17/25 11:14*	*01/17/25 19:42*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-7 (4.1')

Lab Sample ID: 880-53358-14
Matrix: Solid
Date Collected: 01/16/25 13:45
Date Received: 01/17/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/17/25 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/20/25 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 11:32	01/20/25 13:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		01/17/25 11:32	01/20/25 13:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 11:32	01/20/25 13:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*01/17/25 11:32*	*01/20/25 13:10*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 13:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16.5**		10.1		mg/Kg			01/21/25 00:53	1

Client Sample ID: TH-8 (1')

Lab Sample ID: 880-53358-15
Matrix: Solid
Date Collected: 01/16/25 13:50
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 20:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 20:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 20:03	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/17/25 11:14	01/17/25 20:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 20:03	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/17/25 11:14	01/17/25 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*01/17/25 11:14*	*01/17/25 20:03*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/17/25 11:14*	*01/17/25 20:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/17/25 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/20/25 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 13:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		01/17/25 11:32	01/20/25 13:27	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-8 (1')

Lab Sample ID: 880-53358-15
Matrix: Solid
Date Collected: 01/16/25 13:50
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*01/17/25 11:32*	*01/20/25 13:27*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 13:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**57.9**		9.96		mg/Kg			01/21/25 01:00	1

Client Sample ID: TH-8 (4.1')

Lab Sample ID: 880-53358-16
Matrix: Solid
Date Collected: 01/16/25 14:05
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 20:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 20:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 20:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 20:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 20:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/17/25 11:14*	*01/17/25 20:23*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/17/25 11:14*	*01/17/25 20:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/20/25 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/17/25 11:32	01/20/25 13:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U *-	49.7		mg/Kg		01/17/25 11:32	01/20/25 13:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/17/25 11:32	01/20/25 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*01/17/25 11:32*	*01/20/25 13:42*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 13:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.4**		9.90		mg/Kg			01/21/25 01:08	1

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-9 (1')

Lab Sample ID: 880-53358-17
Matrix: Solid
Date Collected: 01/16/25 14:10
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 20:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 20:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 20:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 20:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:14	01/17/25 20:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 11:14	01/17/25 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*01/17/25 11:14*	*01/17/25 20:44*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*01/17/25 11:14*	*01/17/25 20:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/20/25 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 11:32	01/20/25 13:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		01/17/25 11:32	01/20/25 13:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 11:32	01/20/25 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*01/17/25 11:32*	*01/20/25 13:58*	*1*
o-Terphenyl	*64*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 13:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U F1	10.0		mg/Kg			01/21/25 01:15	1

Client Sample ID: TH-9 (4.1')

Lab Sample ID: 880-53358-18
Matrix: Solid
Date Collected: 01/16/25 14:25
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 21:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 21:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 21:04	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/17/25 11:14	01/17/25 21:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:14	01/17/25 21:04	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/17/25 11:14	01/17/25 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*01/17/25 11:14*	*01/17/25 21:04*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/17/25 11:14*	*01/17/25 21:04*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-9 (4.1')

Lab Sample ID: 880-53358-18
Matrix: Solid
Date Collected: 01/16/25 14:25
Date Received: 01/17/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/17/25 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/20/25 14:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/17/25 11:32	01/20/25 14:13	1
Diesel Range Organics (Over C10-C28)	<49.7	U *-	49.7		mg/Kg		01/17/25 11:32	01/20/25 14:13	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/17/25 11:32	01/20/25 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/17/25 11:32*	*01/20/25 14:13*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/17/25 11:32*	*01/20/25 14:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.8**		9.98		mg/Kg			01/21/25 01:37	1

Client Sample ID: TH-10 (1')

Lab Sample ID: 880-53358-19
Matrix: Solid
Date Collected: 01/16/25 14:30
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 21:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 21:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 21:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/17/25 11:14	01/17/25 21:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:14	01/17/25 21:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/17/25 11:14	01/17/25 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/17/25 11:14*	*01/17/25 21:25*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/17/25 11:14*	*01/17/25 21:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/17/25 21:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/20/25 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 11:32	01/20/25 14:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		01/17/25 11:32	01/20/25 14:29	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-10 (1')

Lab Sample ID: 880-53358-19
Matrix: Solid
Date Collected: 01/16/25 14:30
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 11:32	01/20/25 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 14:29*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 14:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			01/21/25 01:45	1

Client Sample ID: TH-10 (4.1')

Lab Sample ID: 880-53358-20
Matrix: Solid
Date Collected: 01/16/25 14:45
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 21:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 21:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 21:45	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/17/25 11:14	01/17/25 21:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:14	01/17/25 21:45	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/17/25 11:14	01/17/25 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/17/25 11:14*	*01/17/25 21:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/17/25 11:14*	*01/17/25 21:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/17/25 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/20/25 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/17/25 11:32	01/20/25 14:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		01/17/25 11:32	01/20/25 14:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/25 11:32	01/20/25 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*01/17/25 11:32*	*01/20/25 14:45*	*1*
o-Terphenyl	*66*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 14:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			01/21/25 02:07	1

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-11 (1')

Lab Sample ID: 880-53358-21
Matrix: Solid
Date Collected: 01/16/25 14:50
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:15	01/17/25 18:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:15	01/17/25 18:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:15	01/17/25 18:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/17/25 11:15	01/17/25 18:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/17/25 11:15	01/17/25 18:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/17/25 11:15	01/17/25 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/17/25 11:15*	*01/17/25 18:41*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/17/25 11:15*	*01/17/25 18:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/17/25 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/20/25 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/17/25 11:32	01/20/25 15:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U *-	49.7		mg/Kg		01/17/25 11:32	01/20/25 15:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/17/25 11:32	01/20/25 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 15:01*	*1*
o-Terphenyl	*63*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 15:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.8**		9.94		mg/Kg			01/21/25 02:15	1

Client Sample ID: TH-11 (4.1')

Lab Sample ID: 880-53358-22
Matrix: Solid
Date Collected: 01/16/25 15:05
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:15	01/17/25 19:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:15	01/17/25 19:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:15	01/17/25 19:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/17/25 11:15	01/17/25 19:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/17/25 11:15	01/17/25 19:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/17/25 11:15	01/17/25 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/17/25 11:15*	*01/17/25 19:01*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/17/25 11:15*	*01/17/25 19:01*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-11 (4.1')

Lab Sample ID: 880-53358-22
Matrix: Solid
Date Collected: 01/16/25 15:05
Date Received: 01/17/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/17/25 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/20/25 16:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 11:32	01/20/25 16:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		01/17/25 11:32	01/20/25 16:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 11:32	01/20/25 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 16:59*	*1*
o-Terphenyl	*61*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 16:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		10.0		mg/Kg			01/21/25 02:22	1

Client Sample ID: TH-12 (1')

Lab Sample ID: 880-53358-23
Matrix: Solid
Date Collected: 01/16/25 15:10
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:15	01/17/25 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:15	01/17/25 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:15	01/17/25 19:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/17/25 11:15	01/17/25 19:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:15	01/17/25 19:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/17/25 11:15	01/17/25 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/17/25 11:15*	*01/17/25 19:22*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/17/25 11:15*	*01/17/25 19:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/17/25 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/20/25 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		01/17/25 11:32	01/20/25 17:14	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-12 (1')

Lab Sample ID: 880-53358-23
Matrix: Solid
Date Collected: 01/16/25 15:10
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*01/17/25 11:32*	*01/20/25 17:14*	*1*
o-Terphenyl	*70*		*70 - 130*	*01/17/25 11:32*	*01/20/25 17:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			01/21/25 02:29	1

Client Sample ID: TH-12 (4.1')

Lab Sample ID: 880-53358-24
Matrix: Solid
Date Collected: 01/16/25 15:25
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:15	01/17/25 19:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:15	01/17/25 19:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:15	01/17/25 19:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 11:15	01/17/25 19:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:15	01/17/25 19:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 11:15	01/17/25 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/17/25 11:15*	*01/17/25 19:42*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/17/25 11:15*	*01/17/25 19:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/20/25 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 11:32	01/20/25 17:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U *-	49.8		mg/Kg		01/17/25 11:32	01/20/25 17:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 11:32	01/20/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/17/25 11:32*	*01/20/25 17:30*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/17/25 11:32*	*01/20/25 17:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			01/21/25 02:37	1

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-13 (1')

Lab Sample ID: 880-53358-25
Matrix: Solid
Date Collected: 01/16/25 15:30
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:15	01/17/25 20:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:15	01/17/25 20:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:15	01/17/25 20:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/17/25 11:15	01/17/25 20:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/17/25 11:15	01/17/25 20:03	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/17/25 11:15	01/17/25 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/17/25 11:15*	*01/17/25 20:03*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/17/25 11:15*	*01/17/25 20:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/17/25 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/20/25 17:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/17/25 11:32	01/20/25 17:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U *-	49.9		mg/Kg		01/17/25 11:32	01/20/25 17:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/25 11:32	01/20/25 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/17/25 11:32*	*01/20/25 17:45*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/17/25 11:32*	*01/20/25 17:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/21/25 02:44	1

Client Sample ID: TH-13 (4.1')

Lab Sample ID: 880-53358-26
Matrix: Solid
Date Collected: 01/16/25 15:45
Date Received: 01/17/25 08:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:15	01/17/25 21:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:15	01/17/25 21:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:15	01/17/25 21:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 11:15	01/17/25 21:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/25 11:15	01/17/25 21:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 11:15	01/17/25 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/17/25 11:15*	*01/17/25 21:37*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/17/25 11:15*	*01/17/25 21:37*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-13 (4.1')

Date Collected: 01/16/25 15:45
Date Received: 01/17/25 08:27

Lab Sample ID: 880-53358-26

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 21:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/20/25 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 18:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		01/17/25 11:32	01/20/25 18:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*01/17/25 11:32*	*01/20/25 18:01*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*01/17/25 11:32*	*01/20/25 18:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94		mg/Kg			01/21/25 02:52	1

Surrogate Summary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO 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)
880-53358-1	TH-1 (1')	95	96
880-53358-1 MS	TH-1 (1')	94	99
880-53358-1 MSD	TH-1 (1')	111	100
880-53358-2	TH-1 (4.1')	107	97
880-53358-3	TH-2 (1')	88	103
880-53358-4	TH-2 (4.1')	104	99
880-53358-5	TH-3 (1')	90	100
880-53358-6	TH-3 (4.1')	96	96
880-53358-7	TH-4 (1')	104	99
880-53358-8	TH-4 (4.1')	102	99
880-53358-9	TH-5 (1')	97	99
880-53358-10	TH-5 (4.1')	91	95
880-53358-11	TH-6 (1')	100	98
880-53358-12	TH-6 (4.1')	107	100
880-53358-13	TH-7 (1')	87	97
880-53358-14	TH-7 (4.1')	89	102
880-53358-15	TH-8 (1')	92	102
880-53358-16	TH-8 (4.1')	99	100
880-53358-17	TH-9 (1')	93	96
880-53358-18	TH-9 (4.1')	92	98
880-53358-19	TH-10 (1')	95	99
880-53358-20	TH-10 (4.1')	99	102
880-53358-21	TH-11 (1')	98	101
880-53358-22	TH-11 (4.1')	105	100
880-53358-23	TH-12 (1')	104	102
880-53358-24	TH-12 (4.1')	100	99
880-53358-25	TH-13 (1')	101	100
880-53358-26	TH-13 (4.1')	102	102
LCS 880-100551/1-A	Lab Control Sample	99	122
LCS 880-100553/1-A	Lab Control Sample	96	99
LCSD 880-100551/2-A	Lab Control Sample Dup	102	122
LCSD 880-100553/2-A	Lab Control Sample Dup	104	98
MB 880-100551/5-A	Method Blank	97	100
MB 880-100553/5-A	Method Blank	88	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-53358-1	TH-1 (1')	78	73
880-53358-2	TH-1 (4.1')	78	73
880-53358-3	TH-2 (1')	65 S1-	63 S1-
880-53358-4	TH-2 (4.1')	89	83
880-53358-5	TH-3 (1')	80	78

Surrogate Summary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-53358-6	TH-3 (4.1')	76	76
880-53358-7	TH-4 (1')	65 S1-	63 S1-
880-53358-8	TH-4 (4.1')	67 S1-	66 S1-
880-53358-9	TH-5 (1')	73	70
880-53358-10	TH-5 (4.1')	63 S1-	61 S1-
880-53358-11	TH-6 (1')	67 S1-	65 S1-
880-53358-12	TH-6 (4.1')	76	69 S1-
880-53358-12 MS	TH-6 (4.1')	64 S1-	63 S1-
880-53358-12 MSD	TH-6 (4.1')	64 S1-	64 S1-
880-53358-13	TH-7 (1')	67 S1-	62 S1-
880-53358-14	TH-7 (4.1')	72	66 S1-
880-53358-15	TH-8 (1')	74	66 S1-
880-53358-16	TH-8 (4.1')	72	66 S1-
880-53358-17	TH-9 (1')	70	64 S1-
880-53358-18	TH-9 (4.1')	81	72
880-53358-19	TH-10 (1')	66 S1-	60 S1-
880-53358-20	TH-10 (4.1')	76	66 S1-
880-53358-21	TH-11 (1')	69 S1-	63 S1-
880-53358-22	TH-11 (4.1')	69 S1-	61 S1-
880-53358-23	TH-12 (1')	75	70
880-53358-24	TH-12 (4.1')	79	72
880-53358-25	TH-13 (1')	79	72
880-53358-26	TH-13 (4.1')	71	65 S1-
LCS 880-100556/2-A	Lab Control Sample	125	118
LCS 880-100557/2-A	Lab Control Sample	77	79
LCSD 880-100556/3-A	Lab Control Sample Dup	155 S1+	141 S1+
LCSD 880-100557/3-A	Lab Control Sample Dup	92	79
MB 880-100556/1-A	Method Blank	84	83
MB 880-100557/1-A	Method Blank	74	69 S1-

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100551/5-A
Matrix: Solid
Analysis Batch: 100582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100551

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:55	01/17/25 16:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:55	01/17/25 16:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:55	01/17/25 16:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/17/25 10:55	01/17/25 16:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:55	01/17/25 16:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/17/25 10:55	01/17/25 16:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/17/25 10:55*	*01/17/25 16:37*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/17/25 10:55*	*01/17/25 16:37*	*1*

Lab Sample ID: LCS 880-100551/1-A
Matrix: Solid
Analysis Batch: 100582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100551

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1085		mg/Kg		108	70 - 130		
Toluene			0.100	0.09623		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.1062		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2170		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1047		mg/Kg		105	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*

Lab Sample ID: LCSD 880-100551/2-A
Matrix: Solid
Analysis Batch: 100582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100551

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1040		mg/Kg		104	70 - 130	4	35
Toluene			0.100	0.09186		mg/Kg		92	70 - 130	5	35
Ethylbenzene			0.100	0.1007		mg/Kg		101	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2065		mg/Kg		103	70 - 130	5	35
o-Xylene			0.100	0.09946		mg/Kg		99	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*

Lab Sample ID: MB 880-100553/5-A
Matrix: Solid
Analysis Batch: 100488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 13:40	1

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

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

Lab Sample ID: MB 880-100553/5-A
Matrix: Solid
Analysis Batch: 100488

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 13:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/17/25 11:14	01/17/25 13:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 11:14	01/17/25 13:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/17/25 11:14	01/17/25 13:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*01/17/25 11:14*	*01/17/25 13:40*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/17/25 11:14*	*01/17/25 13:40*	*1*

Lab Sample ID: LCS 880-100553/1-A
Matrix: Solid
Analysis Batch: 100488

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1051		mg/Kg		105	70 - 130
Toluene	0.100	0.1114		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1130		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1122		mg/Kg		112	70 - 130

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

Lab Sample ID: LCSD 880-100553/2-A
Matrix: Solid
Analysis Batch: 100488

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100553

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1077		mg/Kg		108	70 - 130	2	35
Toluene	0.100	0.1154		mg/Kg		115	70 - 130	4	35
Ethylbenzene	0.100	0.1176		mg/Kg		118	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2088		mg/Kg		104	70 - 130	4	35
o-Xylene	0.100	0.1180		mg/Kg		118	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-53358-1 MS
Matrix: Solid
Analysis Batch: 100488

Client Sample ID: TH-1 (1')
Prep Type: Total/NA
Prep Batch: 100553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1018		mg/Kg		102	70 - 130
Toluene	<0.00199	U	0.0996	0.1063		mg/Kg		107	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1073		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1902		mg/Kg		95	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

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

Lab Sample ID: 880-53358-1 MS
Matrix: Solid
Analysis Batch: 100488

Client Sample ID: TH-1 (1')
Prep Type: Total/NA
Prep Batch: 100553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00199	U	0.0996	0.1071		mg/Kg		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-53358-1 MSD
Matrix: Solid
Analysis Batch: 100488

Client Sample ID: TH-1 (1')
Prep Type: Total/NA
Prep Batch: 100553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1052		mg/Kg		104	70 - 130	3	35
Toluene	<0.00199	U	0.101	0.1151		mg/Kg		114	70 - 130	8	35
Ethylbenzene	<0.00199	U	0.101	0.1170		mg/Kg		116	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2145		mg/Kg		106	70 - 130	12	35
o-Xylene	<0.00199	U	0.101	0.1173		mg/Kg		116	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-100556/1-A
Matrix: Solid
Analysis Batch: 100739

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 11:29	01/21/25 05:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/25 11:29	01/21/25 05:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 11:29	01/21/25 05:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/17/25 11:29*	*01/21/25 05:17*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/17/25 11:29*	*01/21/25 05:17*	*1*

Lab Sample ID: LCS 880-100556/2-A
Matrix: Solid
Analysis Batch: 100739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1077		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1199		mg/Kg		120	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

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

Lab Sample ID: LCS 880-100556/2-A
Matrix: Solid
Analysis Batch: 100739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100556

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-100556/3-A
Matrix: Solid
Analysis Batch: 100739

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100556

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1059		mg/Kg		106	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1351	*+	mg/Kg		135	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	155	S1+	70 - 130
o-Terphenyl	141	S1+	70 - 130

Lab Sample ID: MB 880-100557/1-A
Matrix: Solid
Analysis Batch: 100650

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100557

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 09:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 09:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 11:32	01/20/25 09:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	01/17/25 11:32	01/20/25 09:44	1
o-Terphenyl	69	S1-	70 - 130	01/17/25 11:32	01/20/25 09:44	1

Lab Sample ID: LCS 880-100557/2-A
Matrix: Solid
Analysis Batch: 100650

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100557

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	727.9		mg/Kg		73	70 - 130
Diesel Range Organics (Over C10-C28)			1000	706.3		mg/Kg		71	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	79		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

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

Lab Sample ID: LCSD 880-100557/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100650 — **Prep Batch: 100557**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	737.1		mg/Kg		74	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	677.4	*-	mg/Kg		68	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: 880-53358-12 MS — **Client Sample ID: TH-6 (4.1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100650 — **Prep Batch: 100557**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	777.4		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *-	998	824.5		mg/Kg		83	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*64*	*S1-*	*70 - 130*
o-Terphenyl	*63*	*S1-*	*70 - 130*

Lab Sample ID: 880-53358-12 MSD — **Client Sample ID: TH-6 (4.1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 100650 — **Prep Batch: 100557**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	728.5		mg/Kg		73	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U *-	998	777.9		mg/Kg		78	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*64*	*S1-*	*70 - 130*
o-Terphenyl	*64*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100602/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 100629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/20/25 23:09	1

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-100602/2-A
Matrix: Solid
Analysis Batch: 100629

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	262.9		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-100602/3-A
Matrix: Solid
Analysis Batch: 100629

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	264.2		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-53358-7 MS
Matrix: Solid
Analysis Batch: 100629

Client Sample ID: TH-4 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<10.1	U	252	277.1		mg/Kg		108	90 - 110		

Lab Sample ID: 880-53358-7 MSD
Matrix: Solid
Analysis Batch: 100629

Client Sample ID: TH-4 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.1	U	252	281.4		mg/Kg		110	90 - 110	2	20

Lab Sample ID: 880-53358-17 MS
Matrix: Solid
Analysis Batch: 100629

Client Sample ID: TH-9 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<10.0	U F1	251	283.9	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-53358-17 MSD
Matrix: Solid
Analysis Batch: 100629

Client Sample ID: TH-9 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.0	U F1	251	284.5	F1	mg/Kg		112	90 - 110	0	20

Lab Sample ID: MB 880-100691/1-A
Matrix: Solid
Analysis Batch: 100693

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.00	U	2.00		mg/Kg			01/20/25 16:49	1

Lab Sample ID: LCS 880-100691/2-A
Matrix: Solid
Analysis Batch: 100693

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			50.0	48.01		mg/Kg		96	90 - 110		

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-100691/3-A
Matrix: Solid
Analysis Batch: 100693

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			50.0	48.16		mg/Kg		96	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

GC VOA

Analysis Batch: 100488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-1	TH-1 (1')	Total/NA	Solid	8021B	100553
880-53358-2	TH-1 (4.1')	Total/NA	Solid	8021B	100553
880-53358-3	TH-2 (1')	Total/NA	Solid	8021B	100553
880-53358-4	TH-2 (4.1')	Total/NA	Solid	8021B	100553
880-53358-5	TH-3 (1')	Total/NA	Solid	8021B	100553
880-53358-6	TH-3 (4.1')	Total/NA	Solid	8021B	100553
880-53358-7	TH-4 (1')	Total/NA	Solid	8021B	100553
880-53358-8	TH-4 (4.1')	Total/NA	Solid	8021B	100553
880-53358-9	TH-5 (1')	Total/NA	Solid	8021B	100553
880-53358-10	TH-5 (4.1')	Total/NA	Solid	8021B	100553
880-53358-11	TH-6 (1')	Total/NA	Solid	8021B	100553
880-53358-12	TH-6 (4.1')	Total/NA	Solid	8021B	100553
880-53358-13	TH-7 (1')	Total/NA	Solid	8021B	100553
880-53358-14	TH-7 (4.1')	Total/NA	Solid	8021B	100553
880-53358-15	TH-8 (1')	Total/NA	Solid	8021B	100553
880-53358-16	TH-8 (4.1')	Total/NA	Solid	8021B	100553
880-53358-17	TH-9 (1')	Total/NA	Solid	8021B	100553
880-53358-18	TH-9 (4.1')	Total/NA	Solid	8021B	100553
880-53358-19	TH-10 (1')	Total/NA	Solid	8021B	100553
880-53358-20	TH-10 (4.1')	Total/NA	Solid	8021B	100553
MB 880-100553/5-A	Method Blank	Total/NA	Solid	8021B	100553
LCS 880-100553/1-A	Lab Control Sample	Total/NA	Solid	8021B	100553
LCSD 880-100553/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100553
880-53358-1 MS	TH-1 (1')	Total/NA	Solid	8021B	100553
880-53358-1 MSD	TH-1 (1')	Total/NA	Solid	8021B	100553

Prep Batch: 100551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-21	TH-11 (1')	Total/NA	Solid	5035	
880-53358-22	TH-11 (4.1')	Total/NA	Solid	5035	
880-53358-23	TH-12 (1')	Total/NA	Solid	5035	
880-53358-24	TH-12 (4.1')	Total/NA	Solid	5035	
880-53358-25	TH-13 (1')	Total/NA	Solid	5035	
880-53358-26	TH-13 (4.1')	Total/NA	Solid	5035	
MB 880-100551/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100551/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100551/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 100553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-1	TH-1 (1')	Total/NA	Solid	5035	
880-53358-2	TH-1 (4.1')	Total/NA	Solid	5035	
880-53358-3	TH-2 (1')	Total/NA	Solid	5035	
880-53358-4	TH-2 (4.1')	Total/NA	Solid	5035	
880-53358-5	TH-3 (1')	Total/NA	Solid	5035	
880-53358-6	TH-3 (4.1')	Total/NA	Solid	5035	
880-53358-7	TH-4 (1')	Total/NA	Solid	5035	
880-53358-8	TH-4 (4.1')	Total/NA	Solid	5035	
880-53358-9	TH-5 (1')	Total/NA	Solid	5035	
880-53358-10	TH-5 (4.1')	Total/NA	Solid	5035	
880-53358-11	TH-6 (1')	Total/NA	Solid	5035	

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

GC VOA (Continued)

Prep Batch: 100553 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-12	TH-6 (4.1')	Total/NA	Solid	5035	
880-53358-13	TH-7 (1')	Total/NA	Solid	5035	
880-53358-14	TH-7 (4.1')	Total/NA	Solid	5035	
880-53358-15	TH-8 (1')	Total/NA	Solid	5035	
880-53358-16	TH-8 (4.1')	Total/NA	Solid	5035	
880-53358-17	TH-9 (1')	Total/NA	Solid	5035	
880-53358-18	TH-9 (4.1')	Total/NA	Solid	5035	
880-53358-19	TH-10 (1')	Total/NA	Solid	5035	
880-53358-20	TH-10 (4.1')	Total/NA	Solid	5035	
MB 880-100553/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100553/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100553/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-53358-1 MS	TH-1 (1')	Total/NA	Solid	5035	
880-53358-1 MSD	TH-1 (1')	Total/NA	Solid	5035	

Analysis Batch: 100582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-21	TH-11 (1')	Total/NA	Solid	8021B	100551
880-53358-22	TH-11 (4.1')	Total/NA	Solid	8021B	100551
880-53358-23	TH-12 (1')	Total/NA	Solid	8021B	100551
880-53358-24	TH-12 (4.1')	Total/NA	Solid	8021B	100551
880-53358-25	TH-13 (1')	Total/NA	Solid	8021B	100551
880-53358-26	TH-13 (4.1')	Total/NA	Solid	8021B	100551
MB 880-100551/5-A	Method Blank	Total/NA	Solid	8021B	100551
LCS 880-100551/1-A	Lab Control Sample	Total/NA	Solid	8021B	100551
LCSD 880-100551/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100551

Analysis Batch: 100675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-1	TH-1 (1')	Total/NA	Solid	Total BTEX	
880-53358-2	TH-1 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-3	TH-2 (1')	Total/NA	Solid	Total BTEX	
880-53358-4	TH-2 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-5	TH-3 (1')	Total/NA	Solid	Total BTEX	
880-53358-6	TH-3 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-7	TH-4 (1')	Total/NA	Solid	Total BTEX	
880-53358-8	TH-4 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-9	TH-5 (1')	Total/NA	Solid	Total BTEX	
880-53358-10	TH-5 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-11	TH-6 (1')	Total/NA	Solid	Total BTEX	
880-53358-12	TH-6 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-13	TH-7 (1')	Total/NA	Solid	Total BTEX	
880-53358-14	TH-7 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-15	TH-8 (1')	Total/NA	Solid	Total BTEX	
880-53358-16	TH-8 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-17	TH-9 (1')	Total/NA	Solid	Total BTEX	
880-53358-18	TH-9 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-19	TH-10 (1')	Total/NA	Solid	Total BTEX	
880-53358-20	TH-10 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-21	TH-11 (1')	Total/NA	Solid	Total BTEX	
880-53358-22	TH-11 (4.1')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

GC VOA (Continued)

Analysis Batch: 100675 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-23	TH-12 (1')	Total/NA	Solid	Total BTEX	
880-53358-24	TH-12 (4.1')	Total/NA	Solid	Total BTEX	
880-53358-25	TH-13 (1')	Total/NA	Solid	Total BTEX	
880-53358-26	TH-13 (4.1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-1	TH-1 (1')	Total/NA	Solid	8015NM Prep	
880-53358-2	TH-1 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-3	TH-2 (1')	Total/NA	Solid	8015NM Prep	
880-53358-4	TH-2 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-5	TH-3 (1')	Total/NA	Solid	8015NM Prep	
880-53358-6	TH-3 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-7	TH-4 (1')	Total/NA	Solid	8015NM Prep	
880-53358-8	TH-4 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-9	TH-5 (1')	Total/NA	Solid	8015NM Prep	
880-53358-10	TH-5 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-11	TH-6 (1')	Total/NA	Solid	8015NM Prep	
MB 880-100556/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100556/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100556/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 100557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-12	TH-6 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-13	TH-7 (1')	Total/NA	Solid	8015NM Prep	
880-53358-14	TH-7 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-15	TH-8 (1')	Total/NA	Solid	8015NM Prep	
880-53358-16	TH-8 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-17	TH-9 (1')	Total/NA	Solid	8015NM Prep	
880-53358-18	TH-9 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-19	TH-10 (1')	Total/NA	Solid	8015NM Prep	
880-53358-20	TH-10 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-21	TH-11 (1')	Total/NA	Solid	8015NM Prep	
880-53358-22	TH-11 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-23	TH-12 (1')	Total/NA	Solid	8015NM Prep	
880-53358-24	TH-12 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-25	TH-13 (1')	Total/NA	Solid	8015NM Prep	
880-53358-26	TH-13 (4.1')	Total/NA	Solid	8015NM Prep	
MB 880-100557/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100557/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100557/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53358-12 MS	TH-6 (4.1')	Total/NA	Solid	8015NM Prep	
880-53358-12 MSD	TH-6 (4.1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-12	TH-6 (4.1')	Total/NA	Solid	8015B NM	100557
880-53358-13	TH-7 (1')	Total/NA	Solid	8015B NM	100557

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

GC Semi VOA (Continued)

Analysis Batch: 100650 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-14	TH-7 (4.1')	Total/NA	Solid	8015B NM	100557
880-53358-15	TH-8 (1')	Total/NA	Solid	8015B NM	100557
880-53358-16	TH-8 (4.1')	Total/NA	Solid	8015B NM	100557
880-53358-17	TH-9 (1')	Total/NA	Solid	8015B NM	100557
880-53358-18	TH-9 (4.1')	Total/NA	Solid	8015B NM	100557
880-53358-19	TH-10 (1')	Total/NA	Solid	8015B NM	100557
880-53358-20	TH-10 (4.1')	Total/NA	Solid	8015B NM	100557
880-53358-21	TH-11 (1')	Total/NA	Solid	8015B NM	100557
880-53358-22	TH-11 (4.1')	Total/NA	Solid	8015B NM	100557
880-53358-23	TH-12 (1')	Total/NA	Solid	8015B NM	100557
880-53358-24	TH-12 (4.1')	Total/NA	Solid	8015B NM	100557
880-53358-25	TH-13 (1')	Total/NA	Solid	8015B NM	100557
880-53358-26	TH-13 (4.1')	Total/NA	Solid	8015B NM	100557
MB 880-100557/1-A	Method Blank	Total/NA	Solid	8015B NM	100557
LCS 880-100557/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100557
LCSD 880-100557/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100557
880-53358-12 MS	TH-6 (4.1')	Total/NA	Solid	8015B NM	100557
880-53358-12 MSD	TH-6 (4.1')	Total/NA	Solid	8015B NM	100557

Analysis Batch: 100739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-1	TH-1 (1')	Total/NA	Solid	8015B NM	100556
880-53358-2	TH-1 (4.1')	Total/NA	Solid	8015B NM	100556
880-53358-3	TH-2 (1')	Total/NA	Solid	8015B NM	100556
880-53358-4	TH-2 (4.1')	Total/NA	Solid	8015B NM	100556
880-53358-5	TH-3 (1')	Total/NA	Solid	8015B NM	100556
880-53358-6	TH-3 (4.1')	Total/NA	Solid	8015B NM	100556
880-53358-7	TH-4 (1')	Total/NA	Solid	8015B NM	100556
880-53358-8	TH-4 (4.1')	Total/NA	Solid	8015B NM	100556
880-53358-9	TH-5 (1')	Total/NA	Solid	8015B NM	100556
880-53358-10	TH-5 (4.1')	Total/NA	Solid	8015B NM	100556
880-53358-11	TH-6 (1')	Total/NA	Solid	8015B NM	100556
MB 880-100556/1-A	Method Blank	Total/NA	Solid	8015B NM	100556
LCS 880-100556/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100556
LCSD 880-100556/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100556

Analysis Batch: 100764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-1	TH-1 (1')	Total/NA	Solid	8015 NM	
880-53358-2	TH-1 (4.1')	Total/NA	Solid	8015 NM	
880-53358-3	TH-2 (1')	Total/NA	Solid	8015 NM	
880-53358-4	TH-2 (4.1')	Total/NA	Solid	8015 NM	
880-53358-5	TH-3 (1')	Total/NA	Solid	8015 NM	
880-53358-6	TH-3 (4.1')	Total/NA	Solid	8015 NM	
880-53358-7	TH-4 (1')	Total/NA	Solid	8015 NM	
880-53358-8	TH-4 (4.1')	Total/NA	Solid	8015 NM	
880-53358-9	TH-5 (1')	Total/NA	Solid	8015 NM	
880-53358-10	TH-5 (4.1')	Total/NA	Solid	8015 NM	
880-53358-11	TH-6 (1')	Total/NA	Solid	8015 NM	
880-53358-12	TH-6 (4.1')	Total/NA	Solid	8015 NM	
880-53358-13	TH-7 (1')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

GC Semi VOA (Continued)

Analysis Batch: 100764 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-14	TH-7 (4.1')	Total/NA	Solid	8015 NM	
880-53358-15	TH-8 (1')	Total/NA	Solid	8015 NM	
880-53358-16	TH-8 (4.1')	Total/NA	Solid	8015 NM	
880-53358-17	TH-9 (1')	Total/NA	Solid	8015 NM	
880-53358-18	TH-9 (4.1')	Total/NA	Solid	8015 NM	
880-53358-19	TH-10 (1')	Total/NA	Solid	8015 NM	
880-53358-20	TH-10 (4.1')	Total/NA	Solid	8015 NM	
880-53358-21	TH-11 (1')	Total/NA	Solid	8015 NM	
880-53358-22	TH-11 (4.1')	Total/NA	Solid	8015 NM	
880-53358-23	TH-12 (1')	Total/NA	Solid	8015 NM	
880-53358-24	TH-12 (4.1')	Total/NA	Solid	8015 NM	
880-53358-25	TH-13 (1')	Total/NA	Solid	8015 NM	
880-53358-26	TH-13 (4.1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-7	TH-4 (1')	Soluble	Solid	DI Leach	
880-53358-8	TH-4 (4.1')	Soluble	Solid	DI Leach	
880-53358-9	TH-5 (1')	Soluble	Solid	DI Leach	
880-53358-10	TH-5 (4.1')	Soluble	Solid	DI Leach	
880-53358-11	TH-6 (1')	Soluble	Solid	DI Leach	
880-53358-12	TH-6 (4.1')	Soluble	Solid	DI Leach	
880-53358-13	TH-7 (1')	Soluble	Solid	DI Leach	
880-53358-14	TH-7 (4.1')	Soluble	Solid	DI Leach	
880-53358-15	TH-8 (1')	Soluble	Solid	DI Leach	
880-53358-16	TH-8 (4.1')	Soluble	Solid	DI Leach	
880-53358-17	TH-9 (1')	Soluble	Solid	DI Leach	
880-53358-18	TH-9 (4.1')	Soluble	Solid	DI Leach	
880-53358-19	TH-10 (1')	Soluble	Solid	DI Leach	
880-53358-20	TH-10 (4.1')	Soluble	Solid	DI Leach	
880-53358-21	TH-11 (1')	Soluble	Solid	DI Leach	
880-53358-22	TH-11 (4.1')	Soluble	Solid	DI Leach	
880-53358-23	TH-12 (1')	Soluble	Solid	DI Leach	
880-53358-24	TH-12 (4.1')	Soluble	Solid	DI Leach	
880-53358-25	TH-13 (1')	Soluble	Solid	DI Leach	
880-53358-26	TH-13 (4.1')	Soluble	Solid	DI Leach	
MB 880-100602/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100602/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100602/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53358-7 MS	TH-4 (1')	Soluble	Solid	DI Leach	
880-53358-7 MSD	TH-4 (1')	Soluble	Solid	DI Leach	
880-53358-17 MS	TH-9 (1')	Soluble	Solid	DI Leach	
880-53358-17 MSD	TH-9 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 100629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-7	TH-4 (1')	Soluble	Solid	300.0	100602
880-53358-8	TH-4 (4.1')	Soluble	Solid	300.0	100602
880-53358-9	TH-5 (1')	Soluble	Solid	300.0	100602

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

HPLC/IC (Continued)

Analysis Batch: 100629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-10	TH-5 (4.1')	Soluble	Solid	300.0	100602
880-53358-11	TH-6 (1')	Soluble	Solid	300.0	100602
880-53358-12	TH-6 (4.1')	Soluble	Solid	300.0	100602
880-53358-13	TH-7 (1')	Soluble	Solid	300.0	100602
880-53358-14	TH-7 (4.1')	Soluble	Solid	300.0	100602
880-53358-15	TH-8 (1')	Soluble	Solid	300.0	100602
880-53358-16	TH-8 (4.1')	Soluble	Solid	300.0	100602
880-53358-17	TH-9 (1')	Soluble	Solid	300.0	100602
880-53358-18	TH-9 (4.1')	Soluble	Solid	300.0	100602
880-53358-19	TH-10 (1')	Soluble	Solid	300.0	100602
880-53358-20	TH-10 (4.1')	Soluble	Solid	300.0	100602
880-53358-21	TH-11 (1')	Soluble	Solid	300.0	100602
880-53358-22	TH-11 (4.1')	Soluble	Solid	300.0	100602
880-53358-23	TH-12 (1')	Soluble	Solid	300.0	100602
880-53358-24	TH-12 (4.1')	Soluble	Solid	300.0	100602
880-53358-25	TH-13 (1')	Soluble	Solid	300.0	100602
880-53358-26	TH-13 (4.1')	Soluble	Solid	300.0	100602
MB 880-100602/1-A	Method Blank	Soluble	Solid	300.0	100602
LCS 880-100602/2-A	Lab Control Sample	Soluble	Solid	300.0	100602
LCSD 880-100602/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100602
880-53358-7 MS	TH-4 (1')	Soluble	Solid	300.0	100602
880-53358-7 MSD	TH-4 (1')	Soluble	Solid	300.0	100602
880-53358-17 MS	TH-9 (1')	Soluble	Solid	300.0	100602
880-53358-17 MSD	TH-9 (1')	Soluble	Solid	300.0	100602

Leach Batch: 100691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-1	TH-1 (1')	Soluble	Solid	DI Leach	
880-53358-2	TH-1 (4.1')	Soluble	Solid	DI Leach	
880-53358-3	TH-2 (1')	Soluble	Solid	DI Leach	
880-53358-4	TH-2 (4.1')	Soluble	Solid	DI Leach	
880-53358-5	TH-3 (1')	Soluble	Solid	DI Leach	
880-53358-6	TH-3 (4.1')	Soluble	Solid	DI Leach	
MB 880-100691/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100691/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100691/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 100693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53358-1	TH-1 (1')	Soluble	Solid	300.0	100691
880-53358-2	TH-1 (4.1')	Soluble	Solid	300.0	100691
880-53358-3	TH-2 (1')	Soluble	Solid	300.0	100691
880-53358-4	TH-2 (4.1')	Soluble	Solid	300.0	100691
880-53358-5	TH-3 (1')	Soluble	Solid	300.0	100691
880-53358-6	TH-3 (4.1')	Soluble	Solid	300.0	100691
MB 880-100691/1-A	Method Blank	Soluble	Solid	300.0	100691
LCS 880-100691/2-A	Lab Control Sample	Soluble	Solid	300.0	100691
LCSD 880-100691/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100691

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-1 (1')
Date Collected: 01/16/25 11:30
Date Received: 01/17/25 08:27

Lab Sample ID: 880-53358-1
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			5.02 g	5 mL	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 14:02	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/21/25 15:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 15:22	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	10 mL	100691	01/20/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100693	01/20/25 20:25	CH	EET MID

Client Sample ID: TH-1 (4.1')
Date Collected: 01/16/25 11:45
Date Received: 01/17/25 08:27

Lab Sample ID: 880-53358-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 14:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 14:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/21/25 15:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 15:51	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	10 mL	100691	01/20/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100693	01/20/25 20:31	CH	EET MID

Client Sample ID: TH-2 (1')
Date Collected: 01/16/25 11:50
Date Received: 01/17/25 08:27

Lab Sample ID: 880-53358-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 14:43	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 14:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/21/25 16:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 16:05	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	10 mL	100691	01/20/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100693	01/20/25 20:37	CH	EET MID

Client Sample ID: TH-2 (4.1')
Date Collected: 01/16/25 12:05
Date Received: 01/17/25 08:27

Lab Sample ID: 880-53358-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 15:03	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 15:03	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-2 (4.1')

Lab Sample ID: 880-53358-4
Matrix: Solid
Date Collected: 01/16/25 12:05
Date Received: 01/17/25 08:27

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			100764	01/21/25 16:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 16:19	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	10 mL	100691	01/20/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100693	01/20/25 20:54	CH	EET MID

Client Sample ID: TH-3 (1')

Lab Sample ID: 880-53358-5
Matrix: Solid
Date Collected: 01/16/25 12:10
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 15:24	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 15:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/21/25 16:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 16:33	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	10 mL	100691	01/20/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100693	01/20/25 20:59	CH	EET MID

Client Sample ID: TH-3 (4.1')

Lab Sample ID: 880-53358-6
Matrix: Solid
Date Collected: 01/16/25 12:25
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 15:44	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/21/25 16:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 16:47	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	10 mL	100691	01/20/25 13:37	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100693	01/20/25 21:05	CH	EET MID

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-53358-7
Matrix: Solid
Date Collected: 01/16/25 12:30
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 16:05	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 16:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/21/25 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 17:02	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-53358-7
Matrix: Solid
Date Collected: 01/16/25 12:30
Date Received: 01/17/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/20/25 23:31	CH	EET MID

Client Sample ID: TH-4 (4.1')

Lab Sample ID: 880-53358-8
Matrix: Solid
Date Collected: 01/16/25 12:45
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 16:25	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/21/25 17:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 17:15	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/20/25 23:53	CH	EET MID

Client Sample ID: TH-5 (1')

Lab Sample ID: 880-53358-9
Matrix: Solid
Date Collected: 01/16/25 12:50
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 16:46	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 16:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/21/25 17:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 17:30	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 00:01	CH	EET MID

Client Sample ID: TH-5 (4.1')

Lab Sample ID: 880-53358-10
Matrix: Solid
Date Collected: 01/16/25 13:05
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 17:06	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 17:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/21/25 17:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 17:44	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 00:08	CH	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-6 (1')
Date Collected: 01/16/25 13:10
Date Received: 01/17/25 08:27

Lab Sample ID: 880-53358-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 18:41	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 18:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/21/25 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100556	01/17/25 11:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 17:58	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 00:16	CH	EET MID

Client Sample ID: TH-6 (4.1')
Date Collected: 01/16/25 13:25
Date Received: 01/17/25 08:27

Lab Sample ID: 880-53358-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 19:01	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 12:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 12:08	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 00:38	CH	EET MID

Client Sample ID: TH-7 (1')
Date Collected: 01/16/25 13:30
Date Received: 01/17/25 08:27

Lab Sample ID: 880-53358-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 19:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 12:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 12:55	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 00:45	CH	EET MID

Client Sample ID: TH-7 (4.1')
Date Collected: 01/16/25 13:45
Date Received: 01/17/25 08:27

Lab Sample ID: 880-53358-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 19:42	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 19:42	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-7 (4.1')

Lab Sample ID: 880-53358-14
Matrix: Solid
Date Collected: 01/16/25 13:45
Date Received: 01/17/25 08:27

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			100764	01/20/25 13:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 13:10	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 00:53	CH	EET MID

Client Sample ID: TH-8 (1')

Lab Sample ID: 880-53358-15
Matrix: Solid
Date Collected: 01/16/25 13:50
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 20:03	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 20:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 13:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 13:27	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 01:00	CH	EET MID

Client Sample ID: TH-8 (4.1')

Lab Sample ID: 880-53358-16
Matrix: Solid
Date Collected: 01/16/25 14:05
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 20:23	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 20:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 13:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 13:42	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 01:08	CH	EET MID

Client Sample ID: TH-9 (1')

Lab Sample ID: 880-53358-17
Matrix: Solid
Date Collected: 01/16/25 14:10
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 20:44	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 20:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 13:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 13:58	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-9 (1')

Lab Sample ID: 880-53358-17
Matrix: Solid
Date Collected: 01/16/25 14:10
Date Received: 01/17/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 01:15	CH	EET MID

Client Sample ID: TH-9 (4.1')

Lab Sample ID: 880-53358-18
Matrix: Solid
Date Collected: 01/16/25 14:25
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 21:04	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 21:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 14:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 14:13	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 01:37	CH	EET MID

Client Sample ID: TH-10 (1')

Lab Sample ID: 880-53358-19
Matrix: Solid
Date Collected: 01/16/25 14:30
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 21:25	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 21:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 14:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 01:45	CH	EET MID

Client Sample ID: TH-10 (4.1')

Lab Sample ID: 880-53358-20
Matrix: Solid
Date Collected: 01/16/25 14:45
Date Received: 01/17/25 08:27

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	100553	01/17/25 11:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100488	01/17/25 21:45	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 21:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 14:45	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 02:07	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-11 (1')

Lab Sample ID: 880-53358-21
Matrix: Solid
Date Collected: 01/16/25 14:50
Date Received: 01/17/25 08:27

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	100551	01/17/25 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100582	01/17/25 18:41	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 18:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 15:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 15:01	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 02:15	CH	EET MID

Client Sample ID: TH-11 (4.1')

Lab Sample ID: 880-53358-22
Matrix: Solid
Date Collected: 01/16/25 15:05
Date Received: 01/17/25 08:27

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	100551	01/17/25 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100582	01/17/25 19:01	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 16:59	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 02:22	CH	EET MID

Client Sample ID: TH-12 (1')

Lab Sample ID: 880-53358-23
Matrix: Solid
Date Collected: 01/16/25 15:10
Date Received: 01/17/25 08:27

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	100551	01/17/25 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100582	01/17/25 19:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 17:14	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 02:29	CH	EET MID

Client Sample ID: TH-12 (4.1')

Lab Sample ID: 880-53358-24
Matrix: Solid
Date Collected: 01/16/25 15:25
Date Received: 01/17/25 08:27

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	100551	01/17/25 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100582	01/17/25 19:42	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 19:42	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Client Sample ID: TH-12 (4.1')

Lab Sample ID: 880-53358-24
Matrix: Solid
Date Collected: 01/16/25 15:25
Date Received: 01/17/25 08:27

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			100764	01/20/25 17:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 17:30	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 02:37	CH	EET MID

Client Sample ID: TH-13 (1')

Lab Sample ID: 880-53358-25
Matrix: Solid
Date Collected: 01/16/25 15:30
Date Received: 01/17/25 08:27

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	100551	01/17/25 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100582	01/17/25 20:03	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 20:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 17:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 17:45	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 02:44	CH	EET MID

Client Sample ID: TH-13 (4.1')

Lab Sample ID: 880-53358-26
Matrix: Solid
Date Collected: 01/16/25 15:45
Date Received: 01/17/25 08:27

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	100551	01/17/25 11:15	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100582	01/17/25 21:37	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100675	01/17/25 21:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			100764	01/20/25 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100557	01/17/25 11:32	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100650	01/20/25 18:01	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100602	01/17/25 17:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100629	01/21/25 02:52	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO 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	06-30-25

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: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO 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	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Crain Environmental
Project/Site: Lamunyon 561 CTB

Job ID: 880-53358-1
SDG: Lea CO NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53358-1	TH-1 (1')	Solid	01/16/25 11:30	01/17/25 08:27
880-53358-2	TH-1 (4.1')	Solid	01/16/25 11:45	01/17/25 08:27
880-53358-3	TH-2 (1')	Solid	01/16/25 11:50	01/17/25 08:27
880-53358-4	TH-2 (4.1')	Solid	01/16/25 12:05	01/17/25 08:27
880-53358-5	TH-3 (1')	Solid	01/16/25 12:10	01/17/25 08:27
880-53358-6	TH-3 (4.1')	Solid	01/16/25 12:25	01/17/25 08:27
880-53358-7	TH-4 (1')	Solid	01/16/25 12:30	01/17/25 08:27
880-53358-8	TH-4 (4.1')	Solid	01/16/25 12:45	01/17/25 08:27
880-53358-9	TH-5 (1')	Solid	01/16/25 12:50	01/17/25 08:27
880-53358-10	TH-5 (4.1')	Solid	01/16/25 13:05	01/17/25 08:27
880-53358-11	TH-6 (1')	Solid	01/16/25 13:10	01/17/25 08:27
880-53358-12	TH-6 (4.1')	Solid	01/16/25 13:25	01/17/25 08:27
880-53358-13	TH-7 (1')	Solid	01/16/25 13:30	01/17/25 08:27
880-53358-14	TH-7 (4.1')	Solid	01/16/25 13:45	01/17/25 08:27
880-53358-15	TH-8 (1')	Solid	01/16/25 13:50	01/17/25 08:27
880-53358-16	TH-8 (4.1')	Solid	01/16/25 14:05	01/17/25 08:27
880-53358-17	TH-9 (1')	Solid	01/16/25 14:10	01/17/25 08:27
880-53358-18	TH-9 (4.1')	Solid	01/16/25 14:25	01/17/25 08:27
880-53358-19	TH-10 (1')	Solid	01/16/25 14:30	01/17/25 08:27
880-53358-20	TH-10 (4.1')	Solid	01/16/25 14:45	01/17/25 08:27
880-53358-21	TH-11 (1')	Solid	01/16/25 14:50	01/17/25 08:27
880-53358-22	TH-11 (4.1')	Solid	01/16/25 15:05	01/17/25 08:27
880-53358-23	TH-12 (1')	Solid	01/16/25 15:10	01/17/25 08:27
880-53358-24	TH-12 (4.1')	Solid	01/16/25 15:25	01/17/25 08:27
880-53358-25	TH-13 (1')	Solid	01/16/25 15:30	01/17/25 08:27
880-53358-26	TH-13 (4.1')	Solid	01/16/25 15:45	01/17/25 08:27

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

880-53358 Chain of Custody

Page 1 of 2

Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore
Company Name:	Crain Environmental	Company Name:	FAE II
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy, Ste. 725
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244	Email:	cindy.crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Lamunyon 561 CTB	Turn Around	☒ Routine ☐ Rush
Project Number:	–	Due Date:	
Project Location:	Lea Co., NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	–		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	–
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.9
Total Containers:		Corrected Temperature:	4.8

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
TH-1 (1')	S	1/16/25	1130	1'	C	1		X	X	X	
TH-1 (4.1')			1145	4.1'							
TH-2 (1')			1150	1'							
TH-2 (4.1')			1205	4.1'							
TH-3 (1')			1210	1'							
TH-3 (4.1')			1225	4.1'							
TH-4 (1')			1230	1'							
TH-4 (4.1')			1245	4.1'							
TH-5 (1')			1250	1'							
TH-5 (4.1')	↓	↓	1305	4.1'	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		1/17	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 3

Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore
Company Name:	Crain Environmental	Company Name:	FAE II
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy, Ste. 725
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244 Email:		Cindy.crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Lamunyon 56/CTB	Turn Around	
Project Number:	–	☒ Routine ☐ Rush	
Project Location:	Lea Co., NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	–		

SAMPLE RECEIPT				
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		
Temp Blank:	Yes No	Wet Ice:	Yes No	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
TH-6 (1')	S	1/16/25	1310	1'	C	1		X	X	X	
TH-6 (4.1')			1325	4.1'							
TH-7 (1')			1330	1'							
TH-7 (4.1')			1345	4.1'							
TH-8 (1')			1350	1'							
TH-8 (4.1')			1405	4.1'							
TH-9 (1')			1410	1'							
TH-9 (4.1')			1425	4.1'							
TH-10 (1')			1430	1'							
TH-10 (4.1')	↓	↓	1445	4.1'	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		1/17	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 3

Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore
Company Name:	Crain Environmental	Company Name:	FAE II
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy, Ste. 725
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244	Email:	cindy.crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Lamunyon 56/CTB	Turn Around	
Project Number:	—	☒ Routine ☐ Rush	
Project Location:	Lea Co., NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	—		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
TH-11 (1')	S	1/14/25	1450	1'	C	1		X	X	X	
TH-11 (4.1')			1505	4.1'							
TH-12 (1')			1510	1'							
TH-12 (4.1')			1525	4.1'							
TH-13 (1')			1530	1'							
TH-13 (4.1')	↓	↓	1545	4.1'	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		1/17 827	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-53358-1
SDG Number: Lea CO NM

Login Number: 53358
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.	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.	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	

Appendix D: Photographic Documentation

APPENDIX D
PHOTOGRAPHIC DOCUMENTATION
LAMUNYON 56 (CENTRAL TANK BATTERY)

View of well sign (1/16/25).

View to W of TH-13 (1/16/25).

View to W of TH-12 (1/16/25).

View to SE of TH-10 and TH-11 (1/16/25).

View to N of TH-10 (1/16/25)

View to NW of TH-9 (1/16/25).

APPENDIX D
PHOTOGRAPHIC DOCUMENTATION
LAMUNYON 56 (CENTRAL TANK BATTERY)

View to SE of TH-8 and TH-9 (1/16/25).


View to NE of TH-7 (1/16/25).


View to NE of TH-6 (1/16/25).


View to NE of TH-5 (1/16/25).


View to E of TH-4 (1/16/25).

View to E of TH-3 and TH-4 (1/16/25).


View to NW of TH-1 (1/16/25).


View to W of TH-2 (1/16/25).

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 442697
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2412157442**
Incident Name	**NAPP2412157442 C E LAMUNYON #056 @ 30-025-33254**
Incident Type	**Oil Release**
Incident Status	**Remediation Plan Received**
Incident Well	**[30-025-33254] C E LAMUNYON #056**

Location of Release Source *Please answer all the questions in this group.*	
Site Name	C E LAMUNYON #056
Date Release Discovered	04/29/2024
Surface Owner	Private

Incident Details *Please answer all the questions in this group.*	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Crude Oil | Released: 150 BBL | Recovered: 145 BBL | Lost: 5 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 442697
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 03/14/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 442697
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	121
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	04/30/2025
On what date will (or did) the final sampling or liner inspection occur	04/30/2025
On what date will (or was) the remediation complete(d)	05/15/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 442697
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	TNM-55-95 [fAB0000000061]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 03/14/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 442697
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 442697
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	***{Unavailable.}***

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 442697

CONDITIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 442697
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The site characterization and remediation report is approved to include the following conditions of approval: 1. The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old; well construction information should be provided in the submission. The OCD notes that The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. 2. The OCD notes that the release occurred off-pad in a pasture area, please collect samples at 1' and at 4'. The request to collect samples at 1' and 2' bgs is not approved for the remediation work plan.	4/22/2025
michael.buchanan	This is the final extension request that will be approved for 90-days from the date of this approval on 04/22/2025. Please submit the remediation closure report no later than 07/21/2025.	4/22/2025