

Released Volume Calculation

Incident #nAPP2411049662

Length 43 feet

Width 45 feet

Thickness 0.5 in

968 gal = 23 Est. Total Bbls Released

Volume = $L \times W \times T$

Total Released Volume = 968 gallons (US, dry)

23 Bbls

Total Released Volume Calculation

Length	478 feet
Width	248 feet
Thickness	0.5 in

59,272 gal = 1,411 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 59,272 gallons (US, dry)
14,111 Bbls



Site Characterization Report and Remediation Workplan

March 17, 2025

**Lamunyon #022
Produced Water Release
Incident No. nAPP2411049662
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

A handwritten signature in blue ink that reads 'Cynthia K. Crain'.

Cynthia K. Crain, P.G.



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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 produced water release at Lamunyon #022 (Site), located approximately 10 miles southeast of Eunice, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release are 32.28442, -103.1699982. 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 18, 2024, a release from the well at the Lamunyon #022 was discovered. As a result, approximately 23 barrels (bbls) of produced water were released. Immediately following the release, the area was secured, a vacuum truck was mobilized to the Site, and the well was repaired. Approximately 20 bbls of fluid were recovered. The released fluid covered a surface area of approximately 1,935 square feet but was comingled with a historical release(s). The combined surface area of affected soil covered approximately 142,500 square feet. The release point and the surface extent of the release(s) are depicted on Figure 2.

A Notification of Release (NOR) was submitted to the New Mexico Oil Conservation Division (NMOCD) on April 19, 2024, and Incident #nAPP2411049662 was assigned.

On October 3, 2024, the NMOCD denied a request for extension on the date to submit a Site Characterization Report and Remediation Workplan (Workplan). Appendix B provides a copy of NMOCD correspondence. This *Site Characterization Report and Remediation Workplan* is being submitted 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 are no water wells located within 0.5 mile of the Site (CP 00407); however, a date of installation, a well depth, and a depth to groundwater was not provided. NMOSE records indicated that three wells are located within 1 mile of the Site (CP 00407, CP 00375 POD 1, and CP 00376 POD 1); however, only well (CP 00375 POD 1) provided a well depth (160'). Wells CP 00407 and CP 00376 POD 1 did not provide a well depth, an installation date, or a depth to groundwater. A review of the United State Geological Survey (USGS) database indicated no water wells were located within 1 mile of the Site. The nearest well with a depth to groundwater provided (CP 00480 POD 1) shows a depth to groundwater of 600' when drilled in 1968.

All wells within a 1-mile radius, and well CP 00480 POD 1 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. 2,715 feet to NE	Unknown	N/A	160 / Unknown
CP 00407	Approx. 2,880 feet to SW	Unknown	N/A	Unknown / Unknown
CP 00376 POD 1	Approx. 4,378 feet to SW	Unknown	N/A	Unknown / Unknown
CP 00480 POD 1	Approx. 6,378 feet to E	Unknown	N/A	6281 / 600

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 depth to groundwater is assumed to be greater than 100' bgs, wells CP-00375 POD 1 and CP 00407 will be investigated to determine whether it is possible to obtain a current depth to groundwater. If the wells are not accessible, a soil boring will be installed to a depth of 105' bgs to prove whether the depth to groundwater is greater than 100' bgs. The boring will remain open for a period of at least 72 hours prior to checking for the presence of groundwater. If groundwater is not encountered, the boring will be plugged according to NMOSE specifications.

If groundwater is encountered, the current depth will be recorded, a groundwater sample will be collected for analysis of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and chlorides, and the boring will remain open until laboratory results are received. If the laboratory reports groundwater concentrations below the water quality standards, the boring will be plugged according to



NMOSE specifications. If the laboratory reports groundwater concentrations above the water quality standards, the boring will be completed as a monitor well. Approved drilling and plugging permits will be received from NMOSE prior to installation of a soil boring.

If the depth to groundwater is proven to be greater than 51' or 100' bgs, the appropriate Closure Criteria will apply to soil at depths greater than 4' bgs. 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 Sections 3.1 and 3.4, 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. The current depth to groundwater will be confirmed by either a measurement from well CP-00375-POD 1 and/or CP 00407, or by the installation of a soil boring.

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 and 17, 2025, soil samples (TH-1 through TH-18) were collected at 18 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 depths of 1', 2', 3', and a total depth of 4.1' bgs. Soil samples were placed in clean glass sample jars, properly labeled, and immediately placed on ice. Samples from a depth of 1' and 4.1' bgs were 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. The remaining samples were kept refrigerated in case further analysis was warranted.

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 BTEX were reported below the test method detection limits in all samples. Concentrations of TPH were reported below the test method detection limit or Closure Criteria in all samples. Chloride concentrations were reported below the Closure Criteria (assuming depth to groundwater is greater than 100' bgs) in samples from TH-1, TH-2, TH-4, and TH-15.

Upon receipt of the laboratory results, samples from TH-5 at depths of 2' and 3' bgs were submitted to Eurofins for chloride analysis.

Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations. The laboratory report with chain-of-custody documentation is provided in Appendix C. Chloride concentrations were reported below the Closure Criteria in each sample.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Job Numbers 880-53408-1 and 880-53648-1 generated by Eurofins, were 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

Benzene, BTEX, and TPH concentrations were reported below the test method detection limits or Closure Criteria in all samples. Concentrations of chlorides were reported below the Closure Criteria in 3 samples, as listed on Table 1 and shown on Figure 2. The remaining sample points reported chloride concentrations above the Closure Criteria in at least one depth (dependent on actual depth to groundwater).

After determining an accurate depth to groundwater at the Site, FAE proposes to excavate all impacted soil until confirmation samples collected from the bottom and sidewalls of the excavation report chloride concentrations below the NMOCD Closure Criteria.

As initial BTEX and TPH concentrations were below the test method detection limits or Closure Criteria, FAE requests a variance that each confirmation sample will be analyzed only for chlorides (dependent on a depth to groundwater greater than 100' bgs). Pursuant to 19.15.29.12(D) NMAC, confirmation samples will consist of five-point composite samples, and discrete grab samples will be collected from any wet or discolored areas.

Due to the large footprint of the Site (and dependent on a depth to groundwater greater than 100' bgs), FAE requests a variance from the NMOCD requirement of one soil sample per 200 square feet for confirmation sampling. FAE requests composite confirmation sample collection be performed for each 400 square feet of excavation floor and each 30 linear feet of excavation sidewall.

All excavated material will be transported under manifest to an NMOCD approved disposal facility.

Upon receipt of laboratory results that all chloride concentrations are below the Closure Criteria, the excavation will be backfilled to grade with non-impacted similar material obtained from a landowner pit. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

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

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

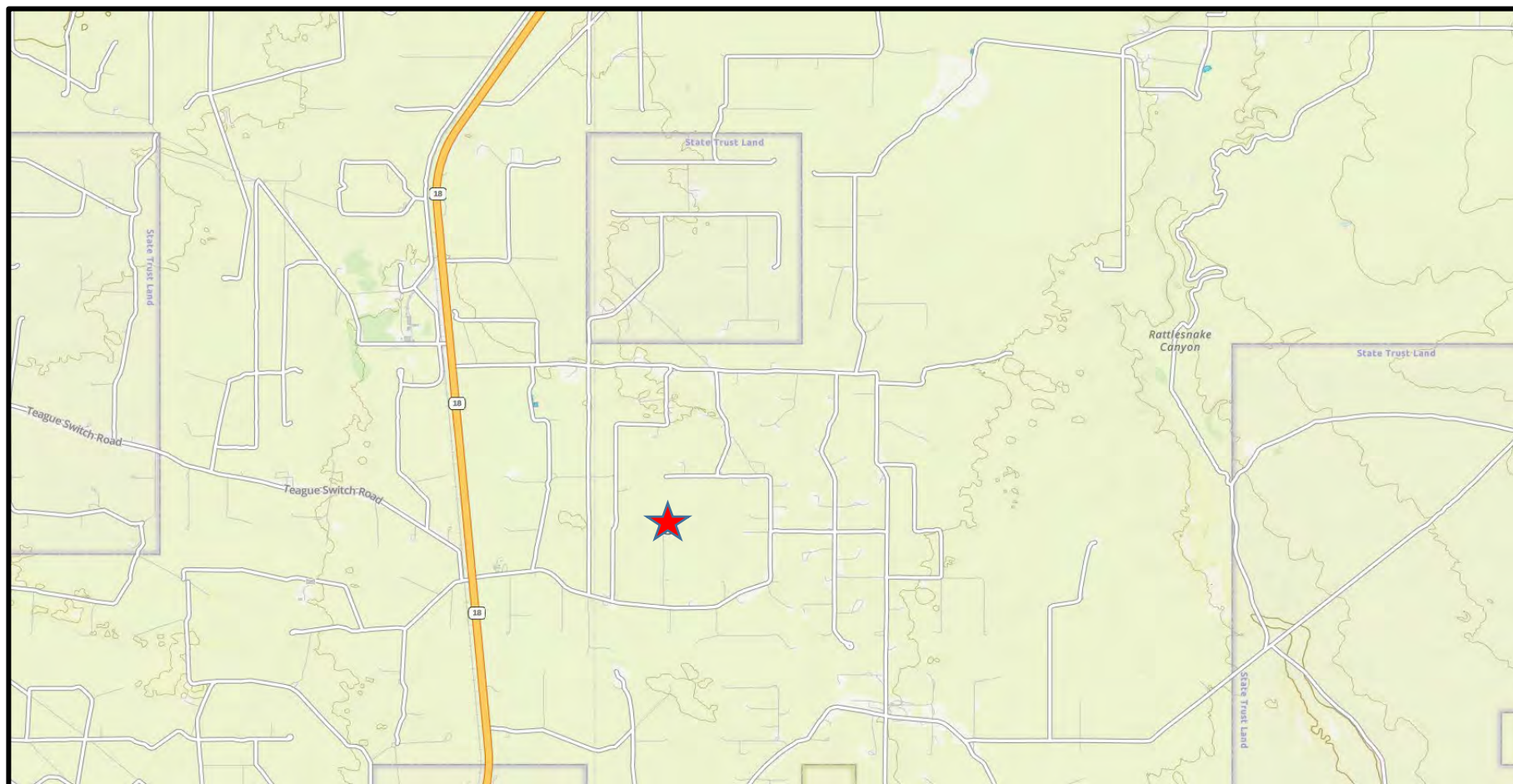
TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FAE II OPERATING, LLC
LAMUNYON #022
NMOCD INCIDENT # nAPP2411049662

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	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<9.94
TH-1 (4.1')	01/16/25	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	11.3
TH-2 (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	19.2
TH-2 (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	42.9
TH-3 (1')	01/16/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,940
TH-3 (4.1')	01/16/25	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	3,670
TH-4 (1')	01/16/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	43.0
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	<0.00399	<0.00399	2,770
TH-5 (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	1,690
TH-5 (2')	01/16/25	2'	In Situ	--	--	--	--	--	--	--	--	--	<10.0
TH-5 (3')	01/16/25	3'	In Situ	--	--	--	--	--	--	--	--	--	23.8
TH-5 (4.1')	01/16/25	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	46.4
TH-6 (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	3,690
TH-6 (4.1')	01/16/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	6,750
TH-7 (1')	01/16/25	1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,310
TH-7 (4.1')	01/16/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,250
TH-8 (1')	01/17/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	322
TH-8 (4.1')	01/17/25	4.1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,120
TH-9 (1')	01/17/25	1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	219
TH-9 (4.1')	01/17/25	4.1'	In Situ	53.3	<49.9	<49.9	53.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,270
TH-10 (1')	01/17/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,370
TH-10 (4.1')	01/17/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,010
TH-11 (1')	01/17/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	39.6
TH-11 (4.1')	01/17/25	4.1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,250
TH-12 (1')	01/17/25	1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	145
TH-12 (4.1')	01/17/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	16,600
TH-13 (1')	01/17/25	1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	206
TH-13 (4.1')	01/17/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,950
TH-14 (1')	01/17/25	1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	10.3
TH-14 (4.1')	01/17/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,140
TH-15 (1')	01/17/25	1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	19.0
TH-15 (4.1')	01/17/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	33.0
TH-16 (1')	01/17/25	1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	33.2
TH-16 (4.1')	01/17/25	4.1'	In Situ	55.6 *1	<50.0	<50.0	55.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,310
TH-17 (1')	01/17/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	354
TH-17 (4.1')	01/17/25	4.1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	3,540
TH-18 (1')	01/17/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	459
TH-18 (4.1')	01/17/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	17,400

- Notes:
- GRO: Gasoline Range Organics
 - DRO: Diesel Range Organics
 - MRO: Motor Oil Range Organics
 - : No NMOCD Closure Criteria established.
 - bgs: Below Ground Surface
 - Bold indicates result was reported above the sample detection limit.
 - < Indicates concentration was reported below the sample detection limit.
 - 8. Bold and yellow** highlighting indicates concentration above the NMOCD Closure Criteria.
 - F1: MS and/or MSD recovery exceeds control limits.
 - 10.- -: No analysis was conducted for the specified constituent.



FIGURES



LEGEND:



Site Location

Base Map From GAIA GPS

Figure 1

Site Location Map

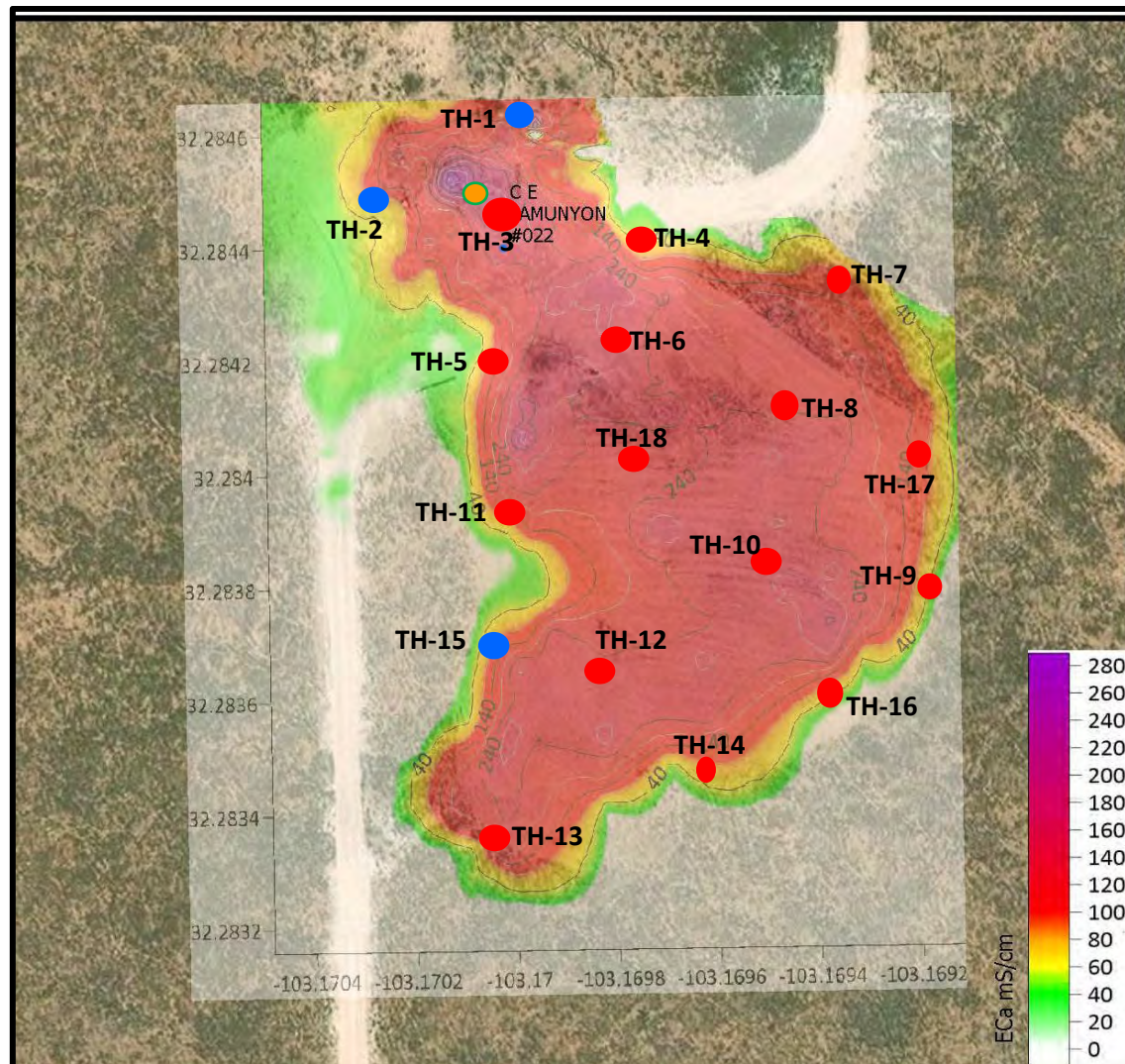
F AE II Operating, LLC
Lamunyon #022
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: March 15, 2025

GPS: 32.28442° -103.169982°



**LEGEND:**

- **TH-3** Soil Sample Location with Sample Number (Concentrations Above Closure Limit)
- **TH-1** Soil Sample Location with Sample Number (Concentrations Below Closure Limit)
- Release Point

Base Map From Google Earth Pro

Figure 2**Sample Location Map**

FAE II Operating, LLC

Lamunyon #022

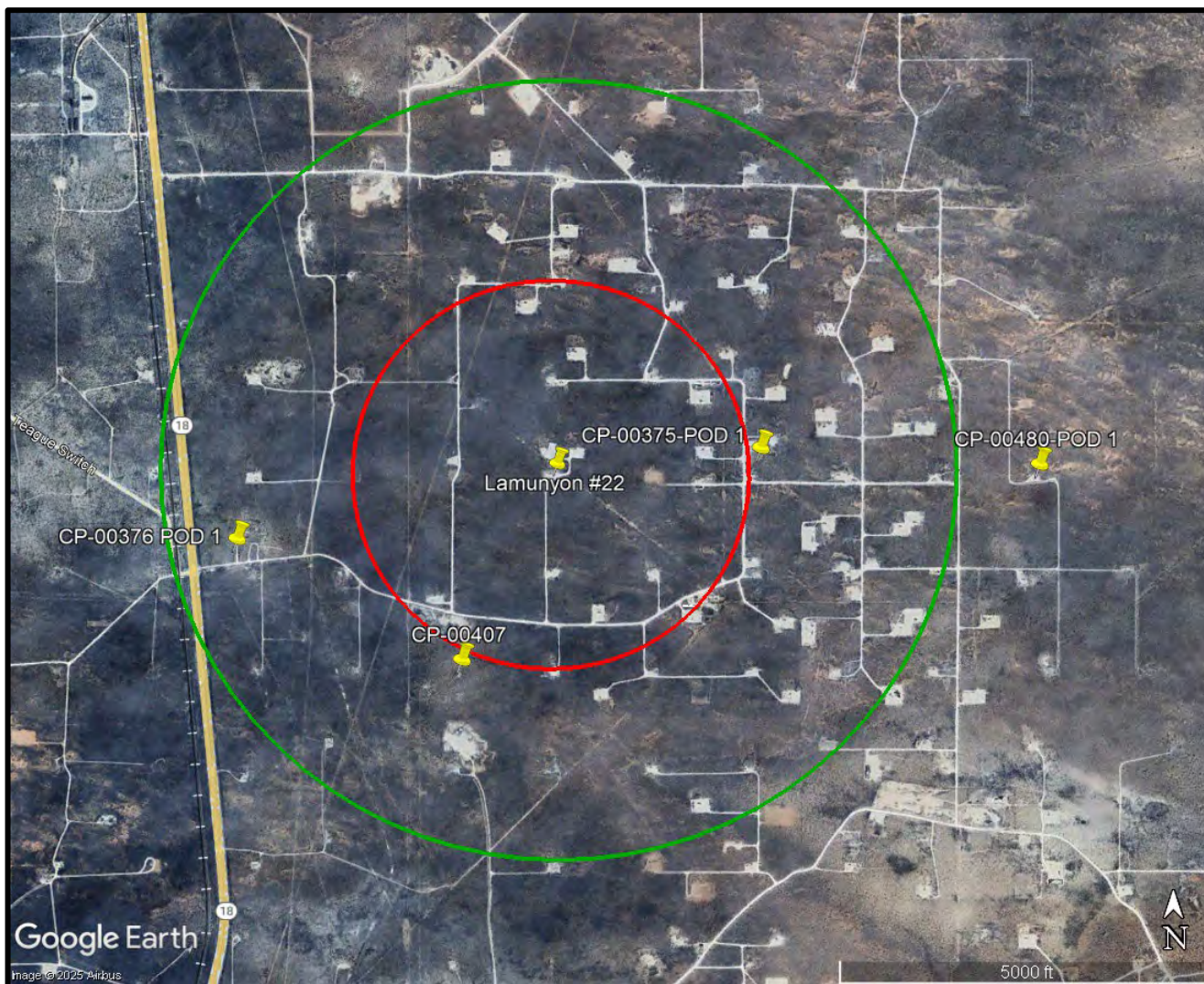
Lea County, New Mexico






Drafted by: CC | Checked by: CC

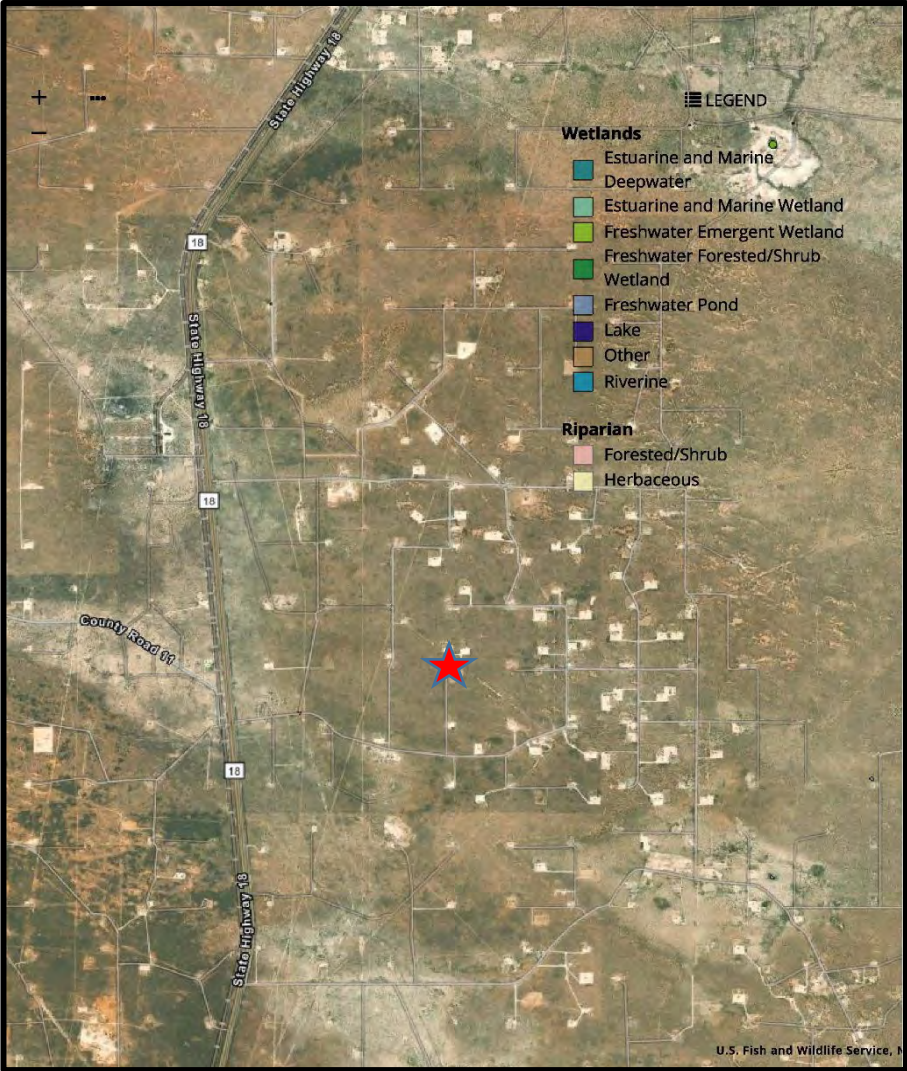
Draft: March 15, 2025



GPS: 32.28442° -103.169982°

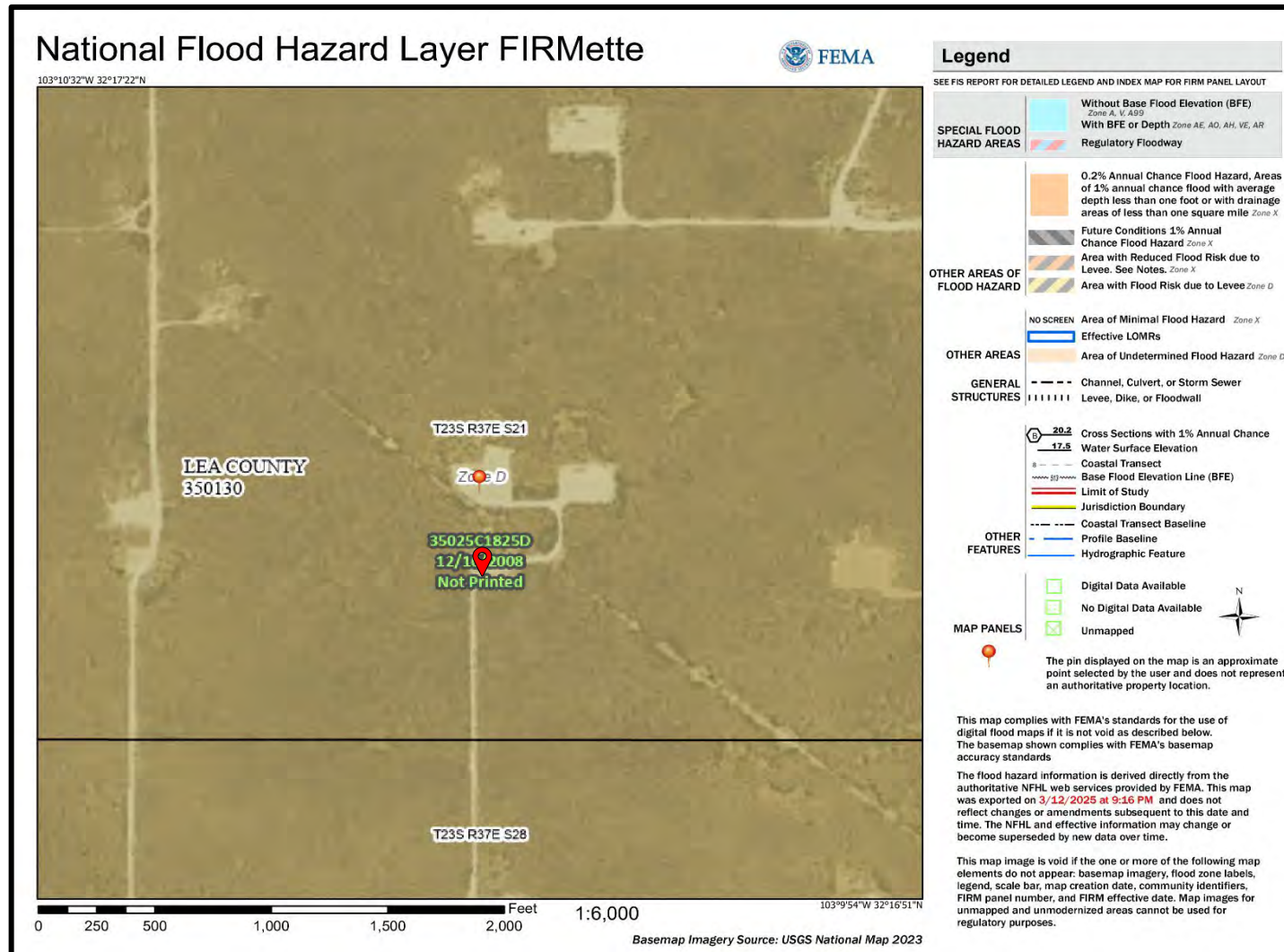




<div><div>LEGEND:</div><div><div></div><div>Site and Well Location</div></div><div><div></div><div>0.5-Mile Radius</div></div><div><div></div><div>1-Mile Radius</div></div><div>Base Map From Google Earth Pro</div></div> <td><div><div>Figure 3</div><div>Wellhead Protection Area Map</div><div><div>FAE II Operating, LLC</div><div>Lamunyon #022</div><div>Lea County, New Mexico</div></div></div></td> <td><div><div>Drafted by: CC Checked by: CC</div><div>Draft: March 15, 2025</div><div>GPS: 32.28442° -103.169982°</div><div></div><div></div></div></td> <td><div></div></td>	<div><div>Figure 3</div><div>Wellhead Protection Area Map</div><div><div>FAE II Operating, LLC</div><div>Lamunyon #022</div><div>Lea County, New Mexico</div></div></div>	<div><div>Drafted by: CC Checked by: CC</div><div>Draft: March 15, 2025</div><div>GPS: 32.28442° -103.169982°</div><div></div><div></div></div>	<div></div>



LEGEND:  Site Location Base Map From US Fish & Wildlife Service	Figure 4 National Wetlands Inventory Map FAE II Operating, LLC Lamunyon #022 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: March 15, 2025	
		GPS: 32.28442° -103.1699982°	



LEGEND:



Site Location

Base Map From FEMA

Figure 5

FEMA Floodplain Map

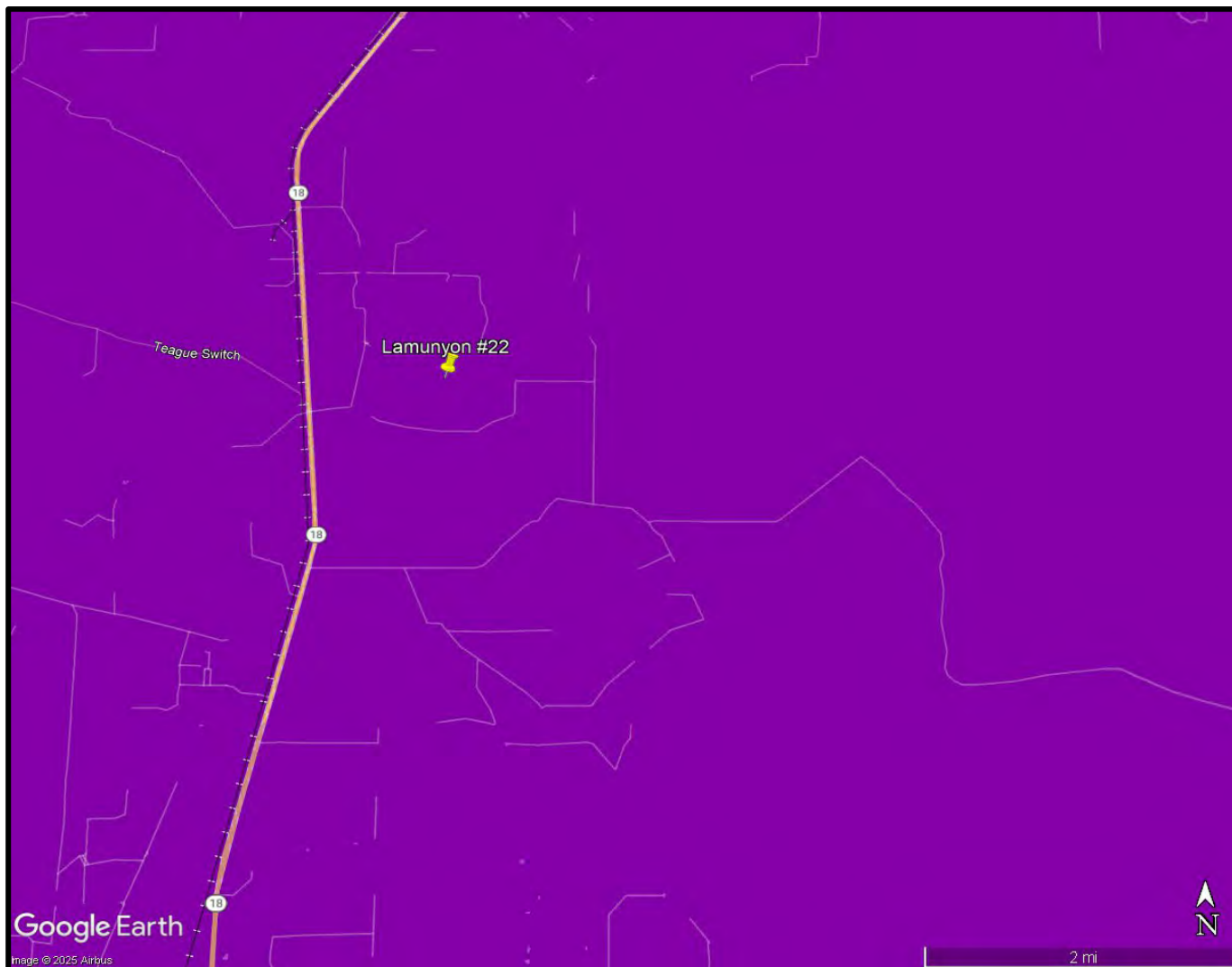
FAE II Operating, LLC
Lamunyon #022
Lea County, New Mexico



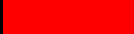

Drafted by: CC | Checked by: CC

Draft: March 15, 2025

GPS: 32.28442° -103.1699982°





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 #022 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: March 15, 2025	
		GPS: 32.28442° -103.1699982°	



Appendix A: NMOCD Correspondence



Cindy Crain <cindy.crain@gmail.com>

FW: (Extension Denied) - FAE II Operating C141 Extension Request for Incident # nAPP2411049662 (C E Lamunyon #022)

1 message

Adam Holcomb <adam@faenergyus.com>
To: Cindy Crain <cindy.crain@gmail.com>

Wed, Dec 4, 2024 at 1:19 PM

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, October 3, 2024 10:01 AM
To: Alex Bolanos <alex@faenergyus.com>
Cc: Adam Holcomb <adam@faenergyus.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: (Extension Denied) - FAE II Operating C141 Extension Request for Incident # nAPP2411049662 (C E Lamunyon #022)

RE: Incident #NAPP2411049662

Alex,

A remediation plan was due on 7/17/2024. Your request for extension is **denied**. An extension needs to be requested before the 90 day Remediation Deadline has expired. Include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Thursday, October 3, 2024 7:14 AM
To: Alex Bolanos <alex@faenergyus.com>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Adam Holcomb <adam@faenergyus.com>
Subject: FAE II Operating C141 Extension Request for Incident # nAPP2411049662 (C E Lamunyon #022)

Good morning Alex,

Thank you for the correspondence.

The incident # has been assigned to Robert Hamlet. I have cc him in this email thread.

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

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




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 00376 POD1	NW	NW	NE	29	23S	37E	671029.0	3573112.0 *	

* 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:

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

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:

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

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	Tw	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


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

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:	

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



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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/24/2025 11:53:44 AM

JOB DESCRIPTION

Lamunyon 22
Lea Co, NM

JOB NUMBER

880-53408-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



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
1/24/2025 11:53:44 AM

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

Client: Crain Environmental
Project/Site: Lamunyon 22

Laboratory Job ID: 880-53408-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
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
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Lamunyon 22

Job ID: 880-53408-1

Job ID: 880-53408-1

Eurofins Midland

Job Narrative
880-53408-1

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 1/20/2025 2:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-100731 recovered under the lower control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-100626 and analytical batch 880-100648 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: TH-16 (1') (880-53408-31), TH-16 (4.1') (880-53408-32), TH-17 (1') (880-53408-33), TH-17 (4.1') (880-53408-34) and TH-18 (1') (880-53408-35). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TH-3 (1') (880-53408-5), (880-53406-A-21-B MS) and (880-53406-A-21-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: TH-1 (1') (880-53408-1), TH-1 (4.1') (880-53408-2), TH-2 (1') (880-53408-3), TH-2 (4.1') (880-53408-4), TH-3 (4.1') (880-53408-6), TH-4 (1') (880-53408-7), TH-5 (1') (880-53408-9) and TH-5 (4.1') (880-53408-10). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TH-7 (4.1') (880-53408-14), TH-10 (4.1') (880-53408-20) and TH-15 (1') (880-53408-29). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-1 (1')

Lab Sample ID: 880-53408-1

Date Collected: 01/16/25 15:55

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:45	01/21/25 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 11:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:45	01/21/25 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 11:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:45	01/21/25 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/21/25 08:45	01/21/25 11:44	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/21/25 08:45	01/21/25 11:44	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			01/21/25 11:44	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			01/22/25 21:27	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		01/20/25 15:15	01/22/25 21:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:15	01/22/25 21:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:15	01/22/25 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	01/20/25 15:15	01/22/25 21:27	1
o-Terphenyl	63	S1-	70 - 130	01/20/25 15:15	01/22/25 21:27	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			01/22/25 22:41	1

Client Sample ID: TH-1 (4.1')

Lab Sample ID: 880-53408-2

Date Collected: 01/16/25 16:10

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:45	01/21/25 12:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 12:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 12:05	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:45	01/21/25 12:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 12:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:45	01/21/25 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	01/21/25 08:45	01/21/25 12:05	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-1 (4.1')

Lab Sample ID: 880-53408-2

Date Collected: 01/16/25 16:10

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	01/21/25 08:45	01/21/25 12:05	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			01/21/25 12:05	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			01/22/25 21:42	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	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 21:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 21:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 21:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				01/20/25 15:15	01/22/25 21:42	1
o-Terphenyl	65	S1-	70 - 130				01/20/25 15:15	01/22/25 21:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		10.0		mg/Kg			01/22/25 22:58	1

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-53408-3

Date Collected: 01/16/25 16:15

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:45	01/21/25 12:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:45	01/21/25 12:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:45	01/21/25 12:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:45	01/21/25 12:25	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:45	01/21/25 12:25	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:45	01/21/25 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	01/21/25 08:45	01/21/25 12:25	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/21/25 08:45	01/21/25 12:25	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			01/21/25 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/22/25 21:56	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-53408-3

Date Collected: 01/16/25 16:15

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 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		01/20/25 15:15	01/22/25 21:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 21:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/20/25 15:15	01/22/25 21:56	1
o-Terphenyl	68	S1-	70 - 130				01/20/25 15:15	01/22/25 21:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.2		10.0		mg/Kg			01/22/25 23:04	1

Client Sample ID: TH-2 (4.1')

Lab Sample ID: 880-53408-4

Date Collected: 01/16/25 16:30

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:45	01/21/25 12:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 12:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 12:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:45	01/21/25 12:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 12:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:45	01/21/25 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				01/21/25 08:45	01/21/25 12:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/21/25 08:45	01/21/25 12:46	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			01/21/25 12:46	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			01/22/25 22:12	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		01/20/25 15:15	01/22/25 22:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:15	01/22/25 22:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:15	01/22/25 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/20/25 15:15	01/22/25 22:12	1
o-Terphenyl	66	S1-	70 - 130				01/20/25 15:15	01/22/25 22:12	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-2 (4.1')

Lab Sample ID: 880-53408-4

Date Collected: 01/16/25 16:30

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.9		9.92		mg/Kg			01/22/25 23:09	1

Client Sample ID: TH-3 (1')

Lab Sample ID: 880-53408-5

Date Collected: 01/16/25 16:35

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:45	01/21/25 13:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 13:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 13:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:45	01/21/25 13:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 13:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:45	01/21/25 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				01/21/25 08:45	01/21/25 13:06	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/21/25 08:45	01/21/25 13:06	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			01/21/25 13:06	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			01/22/25 22:26	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		01/20/25 15:15	01/22/25 22:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:15	01/22/25 22:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:15	01/22/25 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				01/20/25 15:15	01/22/25 22:26	1
o-Terphenyl	67	S1-	70 - 130				01/20/25 15:15	01/22/25 22:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2940		50.2		mg/Kg			01/22/25 23:15	5

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-3 (4.1')

Lab Sample ID: 880-53408-6

Date Collected: 01/16/25 16:50

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:45	01/21/25 13:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 13:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 13:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/25 08:45	01/21/25 13:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 13:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/25 08:45	01/21/25 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				01/21/25 08:45	01/21/25 13:27	1
1,4-Difluorobenzene (Surr)	100		70 - 130				01/21/25 08:45	01/21/25 13:27	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			01/21/25 13:27	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			01/22/25 22:40	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		01/20/25 15:15	01/22/25 22:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 22:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 22:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/20/25 15:15	01/22/25 22:40	1
o-Terphenyl	69	S1-	70 - 130				01/20/25 15:15	01/22/25 22:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3670		100		mg/Kg			01/22/25 23:21	10

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-53408-7

Date Collected: 01/16/25 16:55

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:45	01/21/25 13:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 13:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 13:47	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:45	01/21/25 13:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 13:47	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:45	01/21/25 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				01/21/25 08:45	01/21/25 13:47	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-53408-7

Date Collected: 01/16/25 16:55

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	01/21/25 08:45	01/21/25 13:47	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			01/21/25 13:47	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			01/22/25 22:55	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	<49.8	U	49.8		mg/Kg		01/20/25 15:15	01/22/25 22:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:15	01/22/25 22:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:15	01/22/25 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				01/20/25 15:15	01/22/25 22:55	1
o-Terphenyl	64	S1-	70 - 130				01/20/25 15:15	01/22/25 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.0		9.98		mg/Kg			01/22/25 23:26	1

Client Sample ID: TH-4 (4.1')

Lab Sample ID: 880-53408-8

Date Collected: 01/16/25 17:10

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:45	01/21/25 14:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 14:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 14:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:45	01/21/25 14:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 14:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:45	01/21/25 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	01/21/25 08:45	01/21/25 14:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/21/25 08:45	01/21/25 14:07	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			01/21/25 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/22/25 23:09	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-4 (4.1')

Lab Sample ID: 880-53408-8

Date Collected: 01/16/25 17:10

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/20/25 15:15	01/22/25 23:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:15	01/22/25 23:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:15	01/22/25 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/20/25 15:15	01/22/25 23:09	1
o-Terphenyl	70		70 - 130				01/20/25 15:15	01/22/25 23:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2770		50.0		mg/Kg			01/22/25 23:43	5

Client Sample ID: TH-5 (1')

Lab Sample ID: 880-53408-9

Date Collected: 01/16/25 17:15

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:45	01/21/25 14:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:45	01/21/25 14:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:45	01/21/25 14:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:45	01/21/25 14:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:45	01/21/25 14:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:45	01/21/25 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				01/21/25 08:45	01/21/25 14:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/21/25 08:45	01/21/25 14:28	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			01/21/25 14:28	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			01/22/25 23:25	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		01/20/25 15:15	01/22/25 23:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 23:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 23:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/20/25 15:15	01/22/25 23:25	1
o-Terphenyl	68	S1-	70 - 130				01/20/25 15:15	01/22/25 23:25	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-5 (1')

Lab Sample ID: 880-53408-9

Date Collected: 01/16/25 17:15

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1690		49.9		mg/Kg			01/22/25 23:49	5

Client Sample ID: TH-5 (4.1')

Lab Sample ID: 880-53408-10

Date Collected: 01/16/25 17:30

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:45	01/21/25 14:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 14:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 14:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:45	01/21/25 14:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 14:48	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:45	01/21/25 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				01/21/25 08:45	01/21/25 14:48	1
1,4-Difluorobenzene (Surr)	102		70 - 130				01/21/25 08:45	01/21/25 14:48	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			01/21/25 14:48	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			01/22/25 23:39	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		01/20/25 15:15	01/22/25 23:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 23:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				01/20/25 15:15	01/22/25 23:39	1
o-Terphenyl	64	S1-	70 - 130				01/20/25 15:15	01/22/25 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.4		9.96		mg/Kg			01/23/25 00:06	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-6 (1')

Lab Sample ID: 880-53408-11

Date Collected: 01/16/25 17:35

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:45	01/21/25 18:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 18:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 18:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:45	01/21/25 18:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 18:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:45	01/21/25 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/21/25 08:45	01/21/25 18:40	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/21/25 08:45	01/21/25 18:40	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			01/21/25 18:40	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			01/23/25 18:46	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		01/20/25 15:20	01/23/25 18:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:20	01/23/25 18:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:20	01/23/25 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	01/20/25 15:20	01/23/25 18:46	1
o-Terphenyl	73		70 - 130	01/20/25 15:20	01/23/25 18:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3690		100		mg/Kg			01/23/25 00:12	10

Client Sample ID: TH-6 (4.1')

Lab Sample ID: 880-53408-12

Date Collected: 01/16/25 17:50

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:45	01/21/25 19:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 19:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 19:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:45	01/21/25 19:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 19:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:45	01/21/25 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/21/25 08:45	01/21/25 19:00	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-6 (4.1')

Lab Sample ID: 880-53408-12

Date Collected: 01/16/25 17:50

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	01/21/25 08:45	01/21/25 19:00	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			01/21/25 19:00	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			01/23/25 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 19:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 19:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/20/25 15:20	01/23/25 19:31	1
o-Terphenyl	72		70 - 130				01/20/25 15:20	01/23/25 19:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6750		99.4		mg/Kg			01/23/25 00:18	10

Client Sample ID: TH-7 (1')

Lab Sample ID: 880-53408-13

Date Collected: 01/16/25 17:55

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:45	01/21/25 19:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 19:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 19:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/25 08:45	01/21/25 19:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 19:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/25 08:45	01/21/25 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	01/21/25 08:45	01/21/25 19:20	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/21/25 08:45	01/21/25 19:20	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			01/21/25 19:20	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			01/23/25 19:45	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-7 (1')

Lab Sample ID: 880-53408-13

Date Collected: 01/16/25 17:55

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 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		01/20/25 15:20	01/23/25 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 19:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/20/25 15:20	01/23/25 19:45	1
o-Terphenyl	71		70 - 130				01/20/25 15:20	01/23/25 19:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		50.2		mg/Kg			01/23/25 00:24	5

Client Sample ID: TH-7 (4.1')

Lab Sample ID: 880-53408-14

Date Collected: 01/16/25 18:10

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:45	01/21/25 19:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 19:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 19:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:45	01/21/25 19:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 19:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:45	01/21/25 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				01/21/25 08:45	01/21/25 19:41	1
1,4-Difluorobenzene (Surr)	107		70 - 130				01/21/25 08:45	01/21/25 19:41	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			01/21/25 19:41	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			01/23/25 20:00	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		01/20/25 15:20	01/23/25 20:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 20:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/20/25 15:20	01/23/25 20:00	1
o-Terphenyl	68	S1-	70 - 130				01/20/25 15:20	01/23/25 20:00	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-7 (4.1')

Lab Sample ID: 880-53408-14

Date Collected: 01/16/25 18:10

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		50.5		mg/Kg			01/23/25 00:29	5

Client Sample ID: TH-8 (1')

Lab Sample ID: 880-53408-15

Date Collected: 01/17/25 09:25

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:45	01/21/25 20:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 20:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 20:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:45	01/21/25 20:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 20:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:45	01/21/25 20:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				01/21/25 08:45	01/21/25 20:01	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/21/25 08:45	01/21/25 20:01	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			01/21/25 20:01	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			01/23/25 20:13	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	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 20:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 20:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				01/20/25 15:20	01/23/25 20:13	1
o-Terphenyl	75		70 - 130				01/20/25 15:20	01/23/25 20:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322		9.94		mg/Kg			01/23/25 00:35	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-8 (4.1')

Lab Sample ID: 880-53408-16

Date Collected: 01/17/25 09:35

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:45	01/21/25 20:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 20:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 20:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/25 08:45	01/21/25 20:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 20:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/25 08:45	01/21/25 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	01/21/25 08:45	01/21/25 20:22	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/21/25 08:45	01/21/25 20:22	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			01/21/25 20:22	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			01/23/25 20:29	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	<49.7	U	49.7		mg/Kg		01/20/25 15:20	01/23/25 20:29	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 15:20	01/23/25 20:29	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 15:20	01/23/25 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	01/20/25 15:20	01/23/25 20:29	1
o-Terphenyl	83		70 - 130	01/20/25 15:20	01/23/25 20:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2120		101		mg/Kg			01/23/25 00:41	10

Client Sample ID: TH-9 (1')

Lab Sample ID: 880-53408-17

Date Collected: 01/17/25 09:45

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:45	01/21/25 20:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 20:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 20:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:45	01/21/25 20:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 20:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:45	01/21/25 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	01/21/25 08:45	01/21/25 20:42	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-9 (1')

Lab Sample ID: 880-53408-17

Date Collected: 01/17/25 09:45

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	01/21/25 08:45	01/21/25 20:42	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			01/21/25 20:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/23/25 20:43	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		01/20/25 15:20	01/23/25 20:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:20	01/23/25 20:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:20	01/23/25 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/20/25 15:20	01/23/25 20:43	1
o-Terphenyl	72		70 - 130				01/20/25 15:20	01/23/25 20:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		10.1		mg/Kg			01/22/25 20:27	1

Client Sample ID: TH-9 (4.1')

Lab Sample ID: 880-53408-18

Date Collected: 01/17/25 10:00

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:45	01/21/25 21:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 21:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 21:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:45	01/21/25 21:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 21:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:45	01/21/25 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	01/21/25 08:45	01/21/25 21:03	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/21/25 08:45	01/21/25 21:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/21/25 21:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.3		49.9		mg/Kg			01/23/25 20:58	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-9 (4.1')

Lab Sample ID: 880-53408-18

Date Collected: 01/17/25 10:00

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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	53.3		49.9		mg/Kg		01/20/25 15:20	01/23/25 20:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:20	01/23/25 20:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:20	01/23/25 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/20/25 15:20	01/23/25 20:58	1
o-Terphenyl	72		70 - 130				01/20/25 15:20	01/23/25 20:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1270		50.5		mg/Kg			01/22/25 20:45	5

Client Sample ID: TH-10 (1')

Lab Sample ID: 880-53408-19

Date Collected: 01/17/25 10:05

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:45	01/21/25 21:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 21:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 21:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:45	01/21/25 21:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:45	01/21/25 21:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:45	01/21/25 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				01/21/25 08:45	01/21/25 21:24	1
1,4-Difluorobenzene (Surr)	108		70 - 130				01/21/25 08:45	01/21/25 21:24	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			01/21/25 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/23/25 21:12	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		01/20/25 15:20	01/23/25 21:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 21:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 21:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/20/25 15:20	01/23/25 21:12	1
o-Terphenyl	71		70 - 130				01/20/25 15:20	01/23/25 21:12	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-10 (1')

Lab Sample ID: 880-53408-19

Date Collected: 01/17/25 10:05

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1370		50.4		mg/Kg			01/22/25 20:51	5

Client Sample ID: TH-10 (4.1')

Lab Sample ID: 880-53408-20

Date Collected: 01/17/25 10:20

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:45	01/21/25 21:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 21:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 21:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:45	01/21/25 21:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:45	01/21/25 21:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:45	01/21/25 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				01/21/25 08:45	01/21/25 21:44	1
1,4-Difluorobenzene (Surr)	108		70 - 130				01/21/25 08:45	01/21/25 21:44	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			01/21/25 21:44	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			01/23/25 21:27	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		01/20/25 15:20	01/23/25 21:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 21:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/20/25 15:20	01/23/25 21:27	1
o-Terphenyl	69	S1-	70 - 130				01/20/25 15:20	01/23/25 21:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2010		49.8		mg/Kg			01/22/25 20:57	5

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-11 (1')

Lab Sample ID: 880-53408-21

Date Collected: 01/17/25 10:25

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:46	01/21/25 11:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:46	01/21/25 11:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:46	01/21/25 11:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:46	01/21/25 11:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:46	01/21/25 11:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:46	01/21/25 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/21/25 08:46	01/21/25 11:45	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/21/25 08:46	01/21/25 11:45	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			01/21/25 11:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/23/25 21:56	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		01/20/25 15:20	01/23/25 21:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 21:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 21:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	01/20/25 15:20	01/23/25 21:56	1
o-Terphenyl	77		70 - 130	01/20/25 15:20	01/23/25 21:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.6		9.90		mg/Kg			01/22/25 21:03	1

Client Sample ID: TH-11 (4.1')

Lab Sample ID: 880-53408-22

Date Collected: 01/17/25 10:40

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:46	01/21/25 12:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 12:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 12:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:46	01/21/25 12:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 12:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:46	01/21/25 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/21/25 08:46	01/21/25 12:06	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-11 (4.1')

Lab Sample ID: 880-53408-22

Date Collected: 01/17/25 10:40

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	01/21/25 08:46	01/21/25 12:06	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			01/21/25 12:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/23/25 22:11	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		01/20/25 15:20	01/23/25 22:11	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 15:20	01/23/25 22:11	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 15:20	01/23/25 22:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				01/20/25 15:20	01/23/25 22:11	1
o-Terphenyl	79		70 - 130				01/20/25 15:20	01/23/25 22:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		50.2		mg/Kg			01/22/25 21:21	5

Client Sample ID: TH-12 (1')

Lab Sample ID: 880-53408-23

Date Collected: 01/17/25 10:45

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:46	01/21/25 12:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 12:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 12:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:46	01/21/25 12:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 12:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:46	01/21/25 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/21/25 08:46	01/21/25 12:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130				01/21/25 08:46	01/21/25 12:26	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			01/21/25 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/23/25 22:25	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-12 (1')

Lab Sample ID: 880-53408-23

Date Collected: 01/17/25 10:45

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 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		01/20/25 15:20	01/23/25 22:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 22:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 22:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/20/25 15:20	01/23/25 22:25	1
o-Terphenyl	72		70 - 130				01/20/25 15:20	01/23/25 22:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		10.1		mg/Kg			01/22/25 21:27	1

Client Sample ID: TH-12 (4.1')

Lab Sample ID: 880-53408-24

Date Collected: 01/17/25 11:00

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:46	01/21/25 12:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 12:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 12:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:46	01/21/25 12:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 12:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:46	01/21/25 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				01/21/25 08:46	01/21/25 12:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130				01/21/25 08:46	01/21/25 12:46	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			01/21/25 12:46	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			01/23/25 22:41	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		01/20/25 15:20	01/23/25 22:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 22:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 22:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				01/20/25 15:20	01/23/25 22:41	1
o-Terphenyl	76		70 - 130				01/20/25 15:20	01/23/25 22:41	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-12 (4.1')

Lab Sample ID: 880-53408-24

Date Collected: 01/17/25 11:00

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16600		497		mg/Kg			01/22/25 21:33	50

Client Sample ID: TH-13 (1')

Lab Sample ID: 880-53408-25

Date Collected: 01/17/25 11:05

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:46	01/21/25 13:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 13:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 13:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:46	01/21/25 13:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 13:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:46	01/21/25 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				01/21/25 08:46	01/21/25 13:07	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/21/25 08:46	01/21/25 13:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/21/25 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/23/25 22:55	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		01/20/25 15:20	01/23/25 22:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:20	01/23/25 22:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:20	01/23/25 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				01/20/25 15:20	01/23/25 22:55	1
o-Terphenyl	76		70 - 130				01/20/25 15:20	01/23/25 22:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206		9.98		mg/Kg			01/22/25 21:38	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-13 (4.1')

Lab Sample ID: 880-53408-26

Date Collected: 01/17/25 11:20

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:46	01/21/25 13:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 13:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 13:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:46	01/21/25 13:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 13:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:46	01/21/25 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/21/25 08:46	01/21/25 13:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/21/25 08:46	01/21/25 13:27	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			01/21/25 13:27	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			01/23/25 23:10	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	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 23:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 23:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 23:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	01/20/25 15:20	01/23/25 23:10	1
o-Terphenyl	74		70 - 130	01/20/25 15:20	01/23/25 23:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1950		49.8		mg/Kg			01/22/25 21:44	5

Client Sample ID: TH-14 (1')

Lab Sample ID: 880-53408-27

Date Collected: 01/17/25 11:25

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:46	01/21/25 13:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 13:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 13:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/25 08:46	01/21/25 13:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 13:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/25 08:46	01/21/25 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/21/25 08:46	01/21/25 13:47	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-14 (1')

Lab Sample ID: 880-53408-27

Date Collected: 01/17/25 11:25

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	01/21/25 08:46	01/21/25 13:47	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			01/21/25 13:47	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			01/23/25 23:24	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		01/20/25 15:20	01/23/25 23:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:20	01/23/25 23:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:20	01/23/25 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/20/25 15:20	01/23/25 23:24	1
o-Terphenyl	71		70 - 130				01/20/25 15:20	01/23/25 23:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.3		9.90		mg/Kg			01/22/25 21:50	1

Client Sample ID: TH-14 (4.1')

Lab Sample ID: 880-53408-28

Date Collected: 01/17/25 11:40

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:46	01/21/25 14:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 14:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 14:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:46	01/21/25 14:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 14:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:46	01/21/25 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/21/25 08:46	01/21/25 14:08	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/21/25 08:46	01/21/25 14:08	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			01/21/25 14:08	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			01/23/25 23:39	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-14 (4.1')

Lab Sample ID: 880-53408-28

Date Collected: 01/17/25 11:40

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/20/25 15:20	01/23/25 23:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 23:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:20	01/23/25 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				01/20/25 15:20	01/23/25 23:39	1
o-Terphenyl	75		70 - 130				01/20/25 15:20	01/23/25 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4140		101		mg/Kg			01/22/25 22:08	10

Client Sample ID: TH-15 (1')

Lab Sample ID: 880-53408-29

Date Collected: 01/17/25 11:45

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:46	01/21/25 14:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 14:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 14:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:46	01/21/25 14:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 14:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:46	01/21/25 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/21/25 08:46	01/21/25 14:28	1
1,4-Difluorobenzene (Surr)	91		70 - 130				01/21/25 08:46	01/21/25 14:28	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			01/21/25 14:28	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			01/23/25 23:54	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		01/20/25 15:20	01/23/25 23:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 15:20	01/23/25 23:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 15:20	01/23/25 23:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				01/20/25 15:20	01/23/25 23:54	1
o-Terphenyl	69	S1-	70 - 130				01/20/25 15:20	01/23/25 23:54	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-15 (1')

Lab Sample ID: 880-53408-29

Date Collected: 01/17/25 11:45

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.0		10.1		mg/Kg			01/22/25 22:14	1

Client Sample ID: TH-15 (4.1')

Lab Sample ID: 880-53408-30

Date Collected: 01/17/25 12:00

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:46	01/21/25 14:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 14:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 14:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:46	01/21/25 14:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 14:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:46	01/21/25 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				01/21/25 08:46	01/21/25 14:49	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/21/25 08:46	01/21/25 14:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/21/25 14:49	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			01/24/25 00:08	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		01/20/25 15:20	01/24/25 00:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/24/25 00:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/24/25 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				01/20/25 15:20	01/24/25 00:08	1
o-Terphenyl	73		70 - 130				01/20/25 15:20	01/24/25 00:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.0		9.94		mg/Kg			01/22/25 22:31	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-16 (1')

Lab Sample ID: 880-53408-31

Date Collected: 01/17/25 12:05

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:46	01/21/25 16:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 16:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 16:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:46	01/21/25 16:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:46	01/21/25 16:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:46	01/21/25 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/21/25 08:46	01/21/25 16:22	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/21/25 08:46	01/21/25 16:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/21/25 16:22	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 17:51	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	<49.9	U *1	49.9		mg/Kg		01/20/25 16:01	01/20/25 17:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 16:01	01/20/25 17:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 16:01	01/20/25 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	01/20/25 16:01	01/20/25 17:51	1
o-Terphenyl	65	S1-	70 - 130	01/20/25 16:01	01/20/25 17:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.2		9.96		mg/Kg			01/22/25 22:37	1

Client Sample ID: TH-16 (4.1')

Lab Sample ID: 880-53408-32

Date Collected: 01/17/25 12:20

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:46	01/21/25 16:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:46	01/21/25 16:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:46	01/21/25 16:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:46	01/21/25 16:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:46	01/21/25 16:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:46	01/21/25 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	01/21/25 08:46	01/21/25 16:42	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-16 (4.1')

Lab Sample ID: 880-53408-32

Date Collected: 01/17/25 12:20

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	01/21/25 08:46	01/21/25 16:42	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			01/21/25 16:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.6		50.0		mg/Kg			01/20/25 18:06	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	55.6	*1	50.0		mg/Kg		01/20/25 16:01	01/20/25 18:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 16:01	01/20/25 18:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 16:01	01/20/25 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/20/25 16:01	01/20/25 18:06	1
o-Terphenyl	68	S1-	70 - 130				01/20/25 16:01	01/20/25 18:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		50.0		mg/Kg			01/22/25 22:43	5

Client Sample ID: TH-17 (1')

Lab Sample ID: 880-53408-33

Date Collected: 01/17/25 12:25

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:46	01/21/25 17:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 17:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 17:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:46	01/21/25 17:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 17:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:46	01/21/25 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/21/25 08:46	01/21/25 17:03	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/21/25 08:46	01/21/25 17:03	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			01/21/25 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/20/25 18:21	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-17 (1')

Lab Sample ID: 880-53408-33

Date Collected: 01/17/25 12:25

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 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 *1	49.8		mg/Kg		01/20/25 16:01	01/20/25 18:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 16:01	01/20/25 18:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 16:01	01/20/25 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				01/20/25 16:01	01/20/25 18:21	1
o-Terphenyl	65	S1-	70 - 130				01/20/25 16:01	01/20/25 18:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	354		10.0		mg/Kg			01/22/25 22:49	1

Client Sample ID: TH-17 (4.1')

Lab Sample ID: 880-53408-34

Date Collected: 01/17/25 12:40

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:46	01/21/25 17:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 17:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 17:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/25 08:46	01/21/25 17:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 17:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/25 08:46	01/21/25 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/21/25 08:46	01/21/25 17:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130				01/21/25 08:46	01/21/25 17:23	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			01/21/25 17:23	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 18:50	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 *1	49.7		mg/Kg		01/20/25 16:01	01/20/25 18:50	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 16:01	01/20/25 18:50	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 16:01	01/20/25 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/20/25 16:01	01/20/25 18:50	1
o-Terphenyl	68	S1-	70 - 130				01/20/25 16:01	01/20/25 18:50	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-17 (4.1')

Lab Sample ID: 880-53408-34

Date Collected: 01/17/25 12:40

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3540		99.2		mg/Kg			01/22/25 22:55	10

Client Sample ID: TH-18 (1')

Lab Sample ID: 880-53408-35

Date Collected: 01/17/25 12:45

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 1'

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		01/21/25 08:46	01/21/25 17:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 17:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 17:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:46	01/21/25 17:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 17:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:46	01/21/25 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/21/25 08:46	01/21/25 17:44	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/21/25 08:46	01/21/25 17:44	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			01/21/25 17:44	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 19:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		01/20/25 16:01	01/20/25 19:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 16:01	01/20/25 19:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 16:01	01/20/25 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/20/25 16:01	01/20/25 19:04	1
o-Terphenyl	67	S1-	70 - 130				01/20/25 16:01	01/20/25 19:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	459		9.92		mg/Kg			01/22/25 23:01	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-18 (4.1')

Lab Sample ID: 880-53408-36

Date Collected: 01/17/25 13:00

Matrix: Solid

Date Received: 01/20/25 14:10

Sample Depth: 4.1'

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		01/21/25 08:46	01/21/25 18:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:46	01/21/25 18:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:46	01/21/25 18:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:46	01/21/25 18:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:46	01/21/25 18:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:46	01/21/25 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/21/25 08:46	01/21/25 18:04	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/21/25 08:46	01/21/25 18:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/21/25 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/20/25 19:19	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	<49.8	U *1	49.8		mg/Kg		01/20/25 16:01	01/20/25 19:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 16:01	01/20/25 19:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 16:01	01/20/25 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	01/20/25 16:01	01/20/25 19:19	1
o-Terphenyl	70		70 - 130	01/20/25 16:01	01/20/25 19:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17400		504		mg/Kg			01/22/25 23:07	50

Surrogate Summary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
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	DFBZ1
		(70-130)	(70-130)
880-53408-1	TH-1 (1')	121	99
880-53408-1 MS	TH-1 (1')	119	110
880-53408-1 MSD	TH-1 (1')	119	114
880-53408-2	TH-1 (4.1')	124	101
880-53408-3	TH-2 (1')	120	99
880-53408-4	TH-2 (4.1')	120	101
880-53408-5	TH-3 (1')	125	94
880-53408-6	TH-3 (4.1')	126	100
880-53408-7	TH-4 (1')	123	102
880-53408-8	TH-4 (4.1')	126	97
880-53408-9	TH-5 (1')	122	101
880-53408-10	TH-5 (4.1')	123	102
880-53408-11	TH-6 (1')	95	106
880-53408-12	TH-6 (4.1')	91	105
880-53408-13	TH-7 (1')	91	104
880-53408-14	TH-7 (4.1')	90	107
880-53408-15	TH-8 (1')	88	104
880-53408-16	TH-8 (4.1')	92	107
880-53408-17	TH-9 (1')	93	107
880-53408-18	TH-9 (4.1')	93	106
880-53408-19	TH-10 (1')	92	108
880-53408-20	TH-10 (4.1')	92	108
880-53408-21	TH-11 (1')	105	91
880-53408-21 MS	TH-11 (1')	105	89
880-53408-21 MSD	TH-11 (1')	103	96
880-53408-22	TH-11 (4.1')	104	91
880-53408-23	TH-12 (1')	102	93
880-53408-24	TH-12 (4.1')	114	98
880-53408-25	TH-13 (1')	109	90
880-53408-26	TH-13 (4.1')	104	96
880-53408-27	TH-14 (1')	103	93
880-53408-28	TH-14 (4.1')	110	90
880-53408-29	TH-15 (1')	102	91
880-53408-30	TH-15 (4.1')	105	94
880-53408-31	TH-16 (1')	102	92
880-53408-32	TH-16 (4.1')	106	93
880-53408-33	TH-17 (1')	108	88
880-53408-34	TH-17 (4.1')	108	91
880-53408-35	TH-18 (1')	102	90
880-53408-36	TH-18 (4.1')	108	87
LCS 880-100734/1-A	Lab Control Sample	123	113
LCS 880-100735/1-A	Lab Control Sample	105	88
LCSD 880-100734/2-A	Lab Control Sample Dup	120	111
LCSD 880-100735/2-A	Lab Control Sample Dup	104	91
MB 880-100734/5-A	Method Blank	117	98
MB 880-100735/5-A	Method Blank	96	87

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Midland

Surrogate Summary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	1CO1	OTPH1		
		(70-130)	(70-130)		
880-53408-1	TH-1 (1')	66 S1-	63 S1-		
880-53408-2	TH-1 (4.1')	68 S1-	65 S1-		
880-53408-3	TH-2 (1')	69 S1-	68 S1-		
880-53408-4	TH-2 (4.1')	69 S1-	66 S1-		
880-53408-5	TH-3 (1')	70	67 S1-		
880-53408-6	TH-3 (4.1')	69 S1-	69 S1-		
880-53408-7	TH-4 (1')	68 S1-	64 S1-		
880-53408-8	TH-4 (4.1')	72	70		
880-53408-9	TH-5 (1')	69 S1-	68 S1-		
880-53408-10	TH-5 (4.1')	67 S1-	64 S1-		
880-53408-11	TH-6 (1')	77	73		
880-53408-11 MS	TH-6 (1')	81	77		
880-53408-11 MSD	TH-6 (1')	82	76		
880-53408-12	TH-6 (4.1')	75	72		
880-53408-13	TH-7 (1')	75	71		
880-53408-14	TH-7 (4.1')	73	68 S1-		
880-53408-15	TH-8 (1')	78	75		
880-53408-16	TH-8 (4.1')	86	83		
880-53408-17	TH-9 (1')	76	72		
880-53408-18	TH-9 (4.1')	76	72		
880-53408-19	TH-10 (1')	75	71		
880-53408-20	TH-10 (4.1')	72	69 S1-		
880-53408-21	TH-11 (1')	81	77		
880-53408-22	TH-11 (4.1')	81	79		
880-53408-23	TH-12 (1')	75	72		
880-53408-24	TH-12 (4.1')	77	76		
880-53408-25	TH-13 (1')	80	76		
880-53408-26	TH-13 (4.1')	77	74		
880-53408-27	TH-14 (1')	75	71		
880-53408-28	TH-14 (4.1')	77	75		
880-53408-29	TH-15 (1')	75	69 S1-		
880-53408-30	TH-15 (4.1')	77	73		
880-53408-31	TH-16 (1')	68 S1-	65 S1-		
880-53408-32	TH-16 (4.1')	69 S1-	68 S1-		
880-53408-33	TH-17 (1')	67 S1-	65 S1-		
880-53408-34	TH-17 (4.1')	69 S1-	68 S1-		
880-53408-35	TH-18 (1')	69 S1-	67 S1-		
880-53408-36	TH-18 (4.1')	71	70		
LCS 880-100626/2-A	Lab Control Sample	116	109		
LCS 880-100702/2-A	Lab Control Sample	105	99		
LCS 880-100703/2-A	Lab Control Sample	119	114		
LCSD 880-100626/3-A	Lab Control Sample Dup	127	113		
LCSD 880-100702/3-A	Lab Control Sample Dup	120	115		
LCSD 880-100703/3-A	Lab Control Sample Dup	112	107		
MB 880-100626/1-A	Method Blank	75	73		
MB 880-100702/1-A	Method Blank	110	112		
MB 880-100703/1-A	Method Blank	85	84		

Surrogate Legend

1CO = 1-Chlorooctane

Eurofins Midland

Surrogate Summary

Client: Crain Environmental
Project/Site: Lamunyon 22
OTPH = o-Terphenyl

Job ID: 880-53408-1
SDG: Lea Co, NM

- 1
- 2
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- 13
- 14

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100734/5-A

Matrix: Solid

Analysis Batch: 100731

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/25 08:45	01/21/25 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:45	01/21/25 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/25 08:45	01/21/25 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	01/21/25 08:45	01/21/25 11:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/21/25 08:45	01/21/25 11:23	1

Lab Sample ID: LCS 880-100734/1-A

Matrix: Solid

Analysis Batch: 100731

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1156		mg/Kg		116	70 - 130
Toluene	0.100	0.1032		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1128		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2377		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1151		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-100734/2-A

Matrix: Solid

Analysis Batch: 100731

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100734

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1096		mg/Kg		110	70 - 130	5	35
Toluene	0.100	0.09795		mg/Kg		98	70 - 130	5	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2249		mg/Kg		112	70 - 130	6	35
o-Xylene	0.100	0.1093		mg/Kg		109	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-53408-1 MS

Matrix: Solid

Analysis Batch: 100731

Client Sample ID: TH-1 (1')

Prep Type: Total/NA

Prep Batch: 100734

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09939		mg/Kg		99	70 - 130
Toluene	<0.00200	U	0.100	0.08790		mg/Kg		88	70 - 130

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-53408-1 MS

Matrix: Solid

Analysis Batch: 100731

Client Sample ID: TH-1 (1')

Prep Type: Total/NA

Prep Batch: 100734

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09570		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2010		mg/Kg		101	70 - 130
o-Xylene	<0.00200	U	0.100	0.09899		mg/Kg		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-53408-1 MSD

Matrix: Solid

Analysis Batch: 100731

Client Sample ID: TH-1 (1')

Prep Type: Total/NA

Prep Batch: 100734

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09278		mg/Kg		93	70 - 130	7	35
Toluene	<0.00200	U	0.100	0.08168		mg/Kg		82	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.08872		mg/Kg		89	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1849		mg/Kg		92	70 - 130	8	35
o-Xylene	<0.00200	U	0.100	0.09074		mg/Kg		91	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: MB 880-100735/5-A

Matrix: Solid

Analysis Batch: 100729

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 11:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 11:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 11:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:46	01/21/25 11:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:46	01/21/25 11:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:46	01/21/25 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/21/25 08:46	01/21/25 11:24	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/21/25 08:46	01/21/25 11:24	1

Lab Sample ID: LCS 880-100735/1-A

Matrix: Solid

Analysis Batch: 100729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09286		mg/Kg		93	70 - 130
Toluene	0.100	0.08265		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08852		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1813		mg/Kg		91	70 - 130

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QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-100735/1-A

Matrix: Solid

Analysis Batch: 100729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09087		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-100735/2-A

Matrix: Solid

Analysis Batch: 100729

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100735

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1003		mg/Kg		100	70 - 130	8	35
Toluene	0.100	0.08718		mg/Kg		87	70 - 130	5	35
Ethylbenzene	0.100	0.09173		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1875		mg/Kg		94	70 - 130	3	35
o-Xylene	0.100	0.09462		mg/Kg		95	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-53408-21 MS

Matrix: Solid

Analysis Batch: 100729

Client Sample ID: TH-11 (1')

Prep Type: Total/NA

Prep Batch: 100735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.08524		mg/Kg		85	70 - 130
Toluene	<0.00202	U	0.100	0.08172		mg/Kg		82	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.08608		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1770		mg/Kg		89	70 - 130
o-Xylene	<0.00202	U	0.100	0.09015		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-53408-21 MSD

Matrix: Solid

Analysis Batch: 100729

Client Sample ID: TH-11 (1')

Prep Type: Total/NA

Prep Batch: 100735

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.09598		mg/Kg		96	70 - 130	12	35
Toluene	<0.00202	U	0.100	0.08683		mg/Kg		87	70 - 130	6	35
Ethylbenzene	<0.00202	U	0.100	0.08736		mg/Kg		87	70 - 130	1	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1863		mg/Kg		93	70 - 130	5	35
o-Xylene	<0.00202	U	0.100	0.09399		mg/Kg		94	70 - 130	4	35

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QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-53408-21 MSD

Matrix: Solid

Analysis Batch: 100729

Client Sample ID: TH-11 (1')

Prep Type: Total/NA

Prep Batch: 100735

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-100626/1-A

Matrix: Solid

Analysis Batch: 100648

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100626

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/25 08:46	01/20/25 09:28	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 08:46	01/20/25 09:28	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 08:46	01/20/25 09:28	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	75		70 - 130				01/20/25 08:46	01/20/25 09:28	1	
o-Terphenyl	73		70 - 130				01/20/25 08:46	01/20/25 09:28	1	

Lab Sample ID: LCS 880-100626/2-A

Matrix: Solid

Analysis Batch: 100648

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100626

Analyte	Spike	LCS	LCS							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1078		mg/Kg		108		70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1074		mg/Kg		107		70 - 130		
Surrogate		LCS	LCS							
	%Recovery	Qualifier	Limits							
1-Chlorooctane	116		70 - 130							
o-Terphenyl	109		70 - 130							

Lab Sample ID: LCSD 880-100626/3-A

Matrix: Solid

Analysis Batch: 100648

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100626

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	876.7	*1	mg/Kg		88		70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	1128		mg/Kg		113		70 - 130	5	20
Surrogate		LCSD	LCSD							
	%Recovery	Qualifier	Limits							
1-Chlorooctane	127		70 - 130							
o-Terphenyl	113		70 - 130							

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-100702/1-A

Matrix: Solid

Analysis Batch: 100857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100702

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		01/20/25 15:15	01/22/25 17:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:15	01/22/25 17:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:15	01/22/25 17:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				01/20/25 15:15	01/22/25 17:33	1
o-Terphenyl	112		70 - 130				01/20/25 15:15	01/22/25 17:33	1

Lab Sample ID: LCS 880-100702/2-A

Matrix: Solid

Analysis Batch: 100857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100702

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	980.0		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1008		mg/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	105		70 - 130				
o-Terphenyl	99		70 - 130				

Lab Sample ID: LCSD 880-100702/3-A

Matrix: Solid

Analysis Batch: 100857

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100702

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1029		mg/Kg		103	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1140		mg/Kg		114	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	115		70 - 130						

Lab Sample ID: MB 880-100703/1-A

Matrix: Solid

Analysis Batch: 100936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100703

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		01/20/25 15:20	01/23/25 18:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 18:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:20	01/23/25 18:01	1

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-100703/1-A

Matrix: Solid

Analysis Batch: 100936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100703

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	01/20/25 15:20	01/23/25 18:01	1
o-Terphenyl	84		70 - 130	01/20/25 15:20	01/23/25 18:01	1

Lab Sample ID: LCS 880-100703/2-A

Matrix: Solid

Analysis Batch: 100936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100703

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1103		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-100703/3-A

Matrix: Solid

Analysis Batch: 100936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100703

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1048		mg/Kg		105	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1046		mg/Kg		105	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 880-53408-11 MS

Matrix: Solid

Analysis Batch: 100936

Client Sample ID: TH-6 (1')

Prep Type: Total/NA

Prep Batch: 100703

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	735.8		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	763.4		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	77		70 - 130

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

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

Lab Sample ID: 880-53408-11 MSD

Matrix: Solid

Analysis Batch: 100936

Client Sample ID: TH-6 (1')

Prep Type: Total/NA

Prep Batch: 100703

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	746.4		mg/Kg		71	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	759.2		mg/Kg		76	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	76		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100805/1-A

Matrix: Solid

Analysis Batch: 100871

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/22/25 21:50	1

Lab Sample ID: LCS 880-100805/2-A

Matrix: Solid

Analysis Batch: 100871

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.8		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-100805/3-A

Matrix: Solid

Analysis Batch: 100871

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	259.3		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-53408-7 MS

Matrix: Solid

Analysis Batch: 100871

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	43.0		250	309.4		mg/Kg		107	90 - 110

Lab Sample ID: 880-53408-7 MSD

Matrix: Solid

Analysis Batch: 100871

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	43.0		250	309.9		mg/Kg		107	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-100806/1-A

Matrix: Solid

Analysis Batch: 100904

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/22/25 20:10	1

Lab Sample ID: LCS 880-100806/2-A

Matrix: Solid

Analysis Batch: 100904

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.4		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-100806/3-A

Matrix: Solid

Analysis Batch: 100904

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	256.8		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-53408-17 MS

Matrix: Solid

Analysis Batch: 100904

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	219		252	488.5		mg/Kg		107	90 - 110

Lab Sample ID: 880-53408-17 MSD

Matrix: Solid

Analysis Batch: 100904

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	219		252	488.8		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-53408-27 MS

Matrix: Solid

Analysis Batch: 100904

Client Sample ID: TH-14 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.3		248	259.7		mg/Kg		101	90 - 110

Lab Sample ID: 880-53408-27 MSD

Matrix: Solid

Analysis Batch: 100904

Client Sample ID: TH-14 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.3		248	260.2		mg/Kg		101	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 100729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-21	TH-11 (1')	Total/NA	Solid	8021B	100735
880-53408-22	TH-11 (4.1')	Total/NA	Solid	8021B	100735
880-53408-23	TH-12 (1')	Total/NA	Solid	8021B	100735
880-53408-24	TH-12 (4.1')	Total/NA	Solid	8021B	100735
880-53408-25	TH-13 (1')	Total/NA	Solid	8021B	100735
880-53408-26	TH-13 (4.1')	Total/NA	Solid	8021B	100735
880-53408-27	TH-14 (1')	Total/NA	Solid	8021B	100735
880-53408-28	TH-14 (4.1')	Total/NA	Solid	8021B	100735
880-53408-29	TH-15 (1')	Total/NA	Solid	8021B	100735
880-53408-30	TH-15 (4.1')	Total/NA	Solid	8021B	100735
880-53408-31	TH-16 (1')	Total/NA	Solid	8021B	100735
880-53408-32	TH-16 (4.1')	Total/NA	Solid	8021B	100735
880-53408-33	TH-17 (1')	Total/NA	Solid	8021B	100735
880-53408-34	TH-17 (4.1')	Total/NA	Solid	8021B	100735
880-53408-35	TH-18 (1')	Total/NA	Solid	8021B	100735
880-53408-36	TH-18 (4.1')	Total/NA	Solid	8021B	100735
MB 880-100735/5-A	Method Blank	Total/NA	Solid	8021B	100735
LCS 880-100735/1-A	Lab Control Sample	Total/NA	Solid	8021B	100735
LCSD 880-100735/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100735
880-53408-21 MS	TH-11 (1')	Total/NA	Solid	8021B	100735
880-53408-21 MSD	TH-11 (1')	Total/NA	Solid	8021B	100735

Analysis Batch: 100731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-1	TH-1 (1')	Total/NA	Solid	8021B	100734
880-53408-2	TH-1 (4.1')	Total/NA	Solid	8021B	100734
880-53408-3	TH-2 (1')	Total/NA	Solid	8021B	100734
880-53408-4	TH-2 (4.1')	Total/NA	Solid	8021B	100734
880-53408-5	TH-3 (1')	Total/NA	Solid	8021B	100734
880-53408-6	TH-3 (4.1')	Total/NA	Solid	8021B	100734
880-53408-7	TH-4 (1')	Total/NA	Solid	8021B	100734
880-53408-8	TH-4 (4.1')	Total/NA	Solid	8021B	100734
880-53408-9	TH-5 (1')	Total/NA	Solid	8021B	100734
880-53408-10	TH-5 (4.1')	Total/NA	Solid	8021B	100734
880-53408-11	TH-6 (1')	Total/NA	Solid	8021B	100734
880-53408-12	TH-6 (4.1')	Total/NA	Solid	8021B	100734
880-53408-13	TH-7 (1')	Total/NA	Solid	8021B	100734
880-53408-14	TH-7 (4.1')	Total/NA	Solid	8021B	100734
880-53408-15	TH-8 (1')	Total/NA	Solid	8021B	100734
880-53408-16	TH-8 (4.1')	Total/NA	Solid	8021B	100734
880-53408-17	TH-9 (1')	Total/NA	Solid	8021B	100734
880-53408-18	TH-9 (4.1')	Total/NA	Solid	8021B	100734
880-53408-19	TH-10 (1')	Total/NA	Solid	8021B	100734
880-53408-20	TH-10 (4.1')	Total/NA	Solid	8021B	100734
MB 880-100734/5-A	Method Blank	Total/NA	Solid	8021B	100734
LCS 880-100734/1-A	Lab Control Sample	Total/NA	Solid	8021B	100734
LCSD 880-100734/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100734
880-53408-1 MS	TH-1 (1')	Total/NA	Solid	8021B	100734
880-53408-1 MSD	TH-1 (1')	Total/NA	Solid	8021B	100734

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 100734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-1	TH-1 (1')	Total/NA	Solid	5035	
880-53408-2	TH-1 (4.1')	Total/NA	Solid	5035	
880-53408-3	TH-2 (1')	Total/NA	Solid	5035	
880-53408-4	TH-2 (4.1')	Total/NA	Solid	5035	
880-53408-5	TH-3 (1')	Total/NA	Solid	5035	
880-53408-6	TH-3 (4.1')	Total/NA	Solid	5035	
880-53408-7	TH-4 (1')	Total/NA	Solid	5035	
880-53408-8	TH-4 (4.1')	Total/NA	Solid	5035	
880-53408-9	TH-5 (1')	Total/NA	Solid	5035	
880-53408-10	TH-5 (4.1')	Total/NA	Solid	5035	
880-53408-11	TH-6 (1')	Total/NA	Solid	5035	
880-53408-12	TH-6 (4.1')	Total/NA	Solid	5035	
880-53408-13	TH-7 (1')	Total/NA	Solid	5035	
880-53408-14	TH-7 (4.1')	Total/NA	Solid	5035	
880-53408-15	TH-8 (1')	Total/NA	Solid	5035	
880-53408-16	TH-8 (4.1')	Total/NA	Solid	5035	
880-53408-17	TH-9 (1')	Total/NA	Solid	5035	
880-53408-18	TH-9 (4.1')	Total/NA	Solid	5035	
880-53408-19	TH-10 (1')	Total/NA	Solid	5035	
880-53408-20	TH-10 (4.1')	Total/NA	Solid	5035	
MB 880-100734/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100734/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100734/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-53408-1 MS	TH-1 (1')	Total/NA	Solid	5035	
880-53408-1 MSD	TH-1 (1')	Total/NA	Solid	5035	

Prep Batch: 100735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-21	TH-11 (1')	Total/NA	Solid	5035	
880-53408-22	TH-11 (4.1')	Total/NA	Solid	5035	
880-53408-23	TH-12 (1')	Total/NA	Solid	5035	
880-53408-24	TH-12 (4.1')	Total/NA	Solid	5035	
880-53408-25	TH-13 (1')	Total/NA	Solid	5035	
880-53408-26	TH-13 (4.1')	Total/NA	Solid	5035	
880-53408-27	TH-14 (1')	Total/NA	Solid	5035	
880-53408-28	TH-14 (4.1')	Total/NA	Solid	5035	
880-53408-29	TH-15 (1')	Total/NA	Solid	5035	
880-53408-30	TH-15 (4.1')	Total/NA	Solid	5035	
880-53408-31	TH-16 (1')	Total/NA	Solid	5035	
880-53408-32	TH-16 (4.1')	Total/NA	Solid	5035	
880-53408-33	TH-17 (1')	Total/NA	Solid	5035	
880-53408-34	TH-17 (4.1')	Total/NA	Solid	5035	
880-53408-35	TH-18 (1')	Total/NA	Solid	5035	
880-53408-36	TH-18 (4.1')	Total/NA	Solid	5035	
MB 880-100735/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100735/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100735/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-53408-21 MS	TH-11 (1')	Total/NA	Solid	5035	
880-53408-21 MSD	TH-11 (1')	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 100864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-1	TH-1 (1')	Total/NA	Solid	Total BTEX	
880-53408-2	TH-1 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-3	TH-2 (1')	Total/NA	Solid	Total BTEX	
880-53408-4	TH-2 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-5	TH-3 (1')	Total/NA	Solid	Total BTEX	
880-53408-6	TH-3 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-7	TH-4 (1')	Total/NA	Solid	Total BTEX	
880-53408-8	TH-4 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-9	TH-5 (1')	Total/NA	Solid	Total BTEX	
880-53408-10	TH-5 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-11	TH-6 (1')	Total/NA	Solid	Total BTEX	
880-53408-12	TH-6 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-13	TH-7 (1')	Total/NA	Solid	Total BTEX	
880-53408-14	TH-7 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-15	TH-8 (1')	Total/NA	Solid	Total BTEX	
880-53408-16	TH-8 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-17	TH-9 (1')	Total/NA	Solid	Total BTEX	
880-53408-18	TH-9 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-19	TH-10 (1')	Total/NA	Solid	Total BTEX	
880-53408-20	TH-10 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-21	TH-11 (1')	Total/NA	Solid	Total BTEX	
880-53408-22	TH-11 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-23	TH-12 (1')	Total/NA	Solid	Total BTEX	
880-53408-24	TH-12 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-25	TH-13 (1')	Total/NA	Solid	Total BTEX	
880-53408-26	TH-13 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-27	TH-14 (1')	Total/NA	Solid	Total BTEX	
880-53408-28	TH-14 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-29	TH-15 (1')	Total/NA	Solid	Total BTEX	
880-53408-30	TH-15 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-31	TH-16 (1')	Total/NA	Solid	Total BTEX	
880-53408-32	TH-16 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-33	TH-17 (1')	Total/NA	Solid	Total BTEX	
880-53408-34	TH-17 (4.1')	Total/NA	Solid	Total BTEX	
880-53408-35	TH-18 (1')	Total/NA	Solid	Total BTEX	
880-53408-36	TH-18 (4.1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-31	TH-16 (1')	Total/NA	Solid	8015NM Prep	
880-53408-32	TH-16 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-33	TH-17 (1')	Total/NA	Solid	8015NM Prep	
880-53408-34	TH-17 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-35	TH-18 (1')	Total/NA	Solid	8015NM Prep	
880-53408-36	TH-18 (4.1')	Total/NA	Solid	8015NM Prep	
MB 880-100626/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100626/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100626/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

GC Semi VOA

Analysis Batch: 100648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-31	TH-16 (1')	Total/NA	Solid	8015B NM	100626
880-53408-32	TH-16 (4.1')	Total/NA	Solid	8015B NM	100626
880-53408-33	TH-17 (1')	Total/NA	Solid	8015B NM	100626
880-53408-34	TH-17 (4.1')	Total/NA	Solid	8015B NM	100626
880-53408-35	TH-18 (1')	Total/NA	Solid	8015B NM	100626
880-53408-36	TH-18 (4.1')	Total/NA	Solid	8015B NM	100626
MB 880-100626/1-A	Method Blank	Total/NA	Solid	8015B NM	100626
LCS 880-100626/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100626
LCSD 880-100626/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100626

Prep Batch: 100702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-1	TH-1 (1')	Total/NA	Solid	8015NM Prep	
880-53408-2	TH-1 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-3	TH-2 (1')	Total/NA	Solid	8015NM Prep	
880-53408-4	TH-2 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-5	TH-3 (1')	Total/NA	Solid	8015NM Prep	
880-53408-6	TH-3 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-7	TH-4 (1')	Total/NA	Solid	8015NM Prep	
880-53408-8	TH-4 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-9	TH-5 (1')	Total/NA	Solid	8015NM Prep	
880-53408-10	TH-5 (4.1')	Total/NA	Solid	8015NM Prep	
MB 880-100702/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100702/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100702/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 100703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-11	TH-6 (1')	Total/NA	Solid	8015NM Prep	
880-53408-12	TH-6 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-13	TH-7 (1')	Total/NA	Solid	8015NM Prep	
880-53408-14	TH-7 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-15	TH-8 (1')	Total/NA	Solid	8015NM Prep	
880-53408-16	TH-8 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-17	TH-9 (1')	Total/NA	Solid	8015NM Prep	
880-53408-18	TH-9 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-19	TH-10 (1')	Total/NA	Solid	8015NM Prep	
880-53408-20	TH-10 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-21	TH-11 (1')	Total/NA	Solid	8015NM Prep	
880-53408-22	TH-11 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-23	TH-12 (1')	Total/NA	Solid	8015NM Prep	
880-53408-24	TH-12 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-25	TH-13 (1')	Total/NA	Solid	8015NM Prep	
880-53408-26	TH-13 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-27	TH-14 (1')	Total/NA	Solid	8015NM Prep	
880-53408-28	TH-14 (4.1')	Total/NA	Solid	8015NM Prep	
880-53408-29	TH-15 (1')	Total/NA	Solid	8015NM Prep	
880-53408-30	TH-15 (4.1')	Total/NA	Solid	8015NM Prep	
MB 880-100703/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100703/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Prep Batch: 100703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-11 MS	TH-6 (1')	Total/NA	Solid	8015NM Prep	
880-53408-11 MSD	TH-6 (1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-1	TH-1 (1')	Total/NA	Solid	8015 NM	
880-53408-2	TH-1 (4.1')	Total/NA	Solid	8015 NM	
880-53408-3	TH-2 (1')	Total/NA	Solid	8015 NM	
880-53408-4	TH-2 (4.1')	Total/NA	Solid	8015 NM	
880-53408-5	TH-3 (1')	Total/NA	Solid	8015 NM	
880-53408-6	TH-3 (4.1')	Total/NA	Solid	8015 NM	
880-53408-7	TH-4 (1')	Total/NA	Solid	8015 NM	
880-53408-8	TH-4 (4.1')	Total/NA	Solid	8015 NM	
880-53408-9	TH-5 (1')	Total/NA	Solid	8015 NM	
880-53408-10	TH-5 (4.1')	Total/NA	Solid	8015 NM	
880-53408-11	TH-6 (1')	Total/NA	Solid	8015 NM	
880-53408-12	TH-6 (4.1')	Total/NA	Solid	8015 NM	
880-53408-13	TH-7 (1')	Total/NA	Solid	8015 NM	
880-53408-14	TH-7 (4.1')	Total/NA	Solid	8015 NM	
880-53408-15	TH-8 (1')	Total/NA	Solid	8015 NM	
880-53408-16	TH-8 (4.1')	Total/NA	Solid	8015 NM	
880-53408-17	TH-9 (1')	Total/NA	Solid	8015 NM	
880-53408-18	TH-9 (4.1')	Total/NA	Solid	8015 NM	
880-53408-19	TH-10 (1')	Total/NA	Solid	8015 NM	
880-53408-20	TH-10 (4.1')	Total/NA	Solid	8015 NM	
880-53408-21	TH-11 (1')	Total/NA	Solid	8015 NM	
880-53408-22	TH-11 (4.1')	Total/NA	Solid	8015 NM	
880-53408-23	TH-12 (1')	Total/NA	Solid	8015 NM	
880-53408-24	TH-12 (4.1')	Total/NA	Solid	8015 NM	
880-53408-25	TH-13 (1')	Total/NA	Solid	8015 NM	
880-53408-26	TH-13 (4.1')	Total/NA	Solid	8015 NM	
880-53408-27	TH-14 (1')	Total/NA	Solid	8015 NM	
880-53408-28	TH-14 (4.1')	Total/NA	Solid	8015 NM	
880-53408-29	TH-15 (1')	Total/NA	Solid	8015 NM	
880-53408-30	TH-15 (4.1')	Total/NA	Solid	8015 NM	
880-53408-31	TH-16 (1')	Total/NA	Solid	8015 NM	
880-53408-32	TH-16 (4.1')	Total/NA	Solid	8015 NM	
880-53408-33	TH-17 (1')	Total/NA	Solid	8015 NM	
880-53408-34	TH-17 (4.1')	Total/NA	Solid	8015 NM	
880-53408-35	TH-18 (1')	Total/NA	Solid	8015 NM	
880-53408-36	TH-18 (4.1')	Total/NA	Solid	8015 NM	

Analysis Batch: 100857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-1	TH-1 (1')	Total/NA	Solid	8015B NM	100702
880-53408-2	TH-1 (4.1')	Total/NA	Solid	8015B NM	100702
880-53408-3	TH-2 (1')	Total/NA	Solid	8015B NM	100702
880-53408-4	TH-2 (4.1')	Total/NA	Solid	8015B NM	100702
880-53408-5	TH-3 (1')	Total/NA	Solid	8015B NM	100702
880-53408-6	TH-3 (4.1')	Total/NA	Solid	8015B NM	100702
880-53408-7	TH-4 (1')	Total/NA	Solid	8015B NM	100702

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 100857 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-8	TH-4 (4.1')	Total/NA	Solid	8015B NM	100702
880-53408-9	TH-5 (1')	Total/NA	Solid	8015B NM	100702
880-53408-10	TH-5 (4.1')	Total/NA	Solid	8015B NM	100702
MB 880-100702/1-A	Method Blank	Total/NA	Solid	8015B NM	100702
LCS 880-100702/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100702
LCSD 880-100702/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100702

Analysis Batch: 100936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-11	TH-6 (1')	Total/NA	Solid	8015B NM	100703
880-53408-12	TH-6 (4.1')	Total/NA	Solid	8015B NM	100703
880-53408-13	TH-7 (1')	Total/NA	Solid	8015B NM	100703
880-53408-14	TH-7 (4.1')	Total/NA	Solid	8015B NM	100703
880-53408-15	TH-8 (1')	Total/NA	Solid	8015B NM	100703
880-53408-16	TH-8 (4.1')	Total/NA	Solid	8015B NM	100703
880-53408-17	TH-9 (1')	Total/NA	Solid	8015B NM	100703
880-53408-18	TH-9 (4.1')	Total/NA	Solid	8015B NM	100703
880-53408-19	TH-10 (1')	Total/NA	Solid	8015B NM	100703
880-53408-20	TH-10 (4.1')	Total/NA	Solid	8015B NM	100703
880-53408-21	TH-11 (1')	Total/NA	Solid	8015B NM	100703
880-53408-22	TH-11 (4.1')	Total/NA	Solid	8015B NM	100703
880-53408-23	TH-12 (1')	Total/NA	Solid	8015B NM	100703
880-53408-24	TH-12 (4.1')	Total/NA	Solid	8015B NM	100703
880-53408-25	TH-13 (1')	Total/NA	Solid	8015B NM	100703
880-53408-26	TH-13 (4.1')	Total/NA	Solid	8015B NM	100703
880-53408-27	TH-14 (1')	Total/NA	Solid	8015B NM	100703
880-53408-28	TH-14 (4.1')	Total/NA	Solid	8015B NM	100703
880-53408-29	TH-15 (1')	Total/NA	Solid	8015B NM	100703
880-53408-30	TH-15 (4.1')	Total/NA	Solid	8015B NM	100703
MB 880-100703/1-A	Method Blank	Total/NA	Solid	8015B NM	100703
LCS 880-100703/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100703
LCSD 880-100703/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100703
880-53408-11 MS	TH-6 (1')	Total/NA	Solid	8015B NM	100703
880-53408-11 MSD	TH-6 (1')	Total/NA	Solid	8015B NM	100703

HPLC/IC

Leach Batch: 100805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-1	TH-1 (1')	Soluble	Solid	DI Leach	
880-53408-2	TH-1 (4.1')	Soluble	Solid	DI Leach	
880-53408-3	TH-2 (1')	Soluble	Solid	DI Leach	
880-53408-4	TH-2 (4.1')	Soluble	Solid	DI Leach	
880-53408-5	TH-3 (1')	Soluble	Solid	DI Leach	
880-53408-6	TH-3 (4.1')	Soluble	Solid	DI Leach	
880-53408-7	TH-4 (1')	Soluble	Solid	DI Leach	
880-53408-8	TH-4 (4.1')	Soluble	Solid	DI Leach	
880-53408-9	TH-5 (1')	Soluble	Solid	DI Leach	
880-53408-10	TH-5 (4.1')	Soluble	Solid	DI Leach	
880-53408-11	TH-6 (1')	Soluble	Solid	DI Leach	
880-53408-12	TH-6 (4.1')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 100805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-13	TH-7 (1')	Soluble	Solid	DI Leach	
880-53408-14	TH-7 (4.1')	Soluble	Solid	DI Leach	
880-53408-15	TH-8 (1')	Soluble	Solid	DI Leach	
880-53408-16	TH-8 (4.1')	Soluble	Solid	DI Leach	
MB 880-100805/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100805/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100805/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53408-7 MS	TH-4 (1')	Soluble	Solid	DI Leach	
880-53408-7 MSD	TH-4 (1')	Soluble	Solid	DI Leach	

Leach Batch: 100806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-17	TH-9 (1')	Soluble	Solid	DI Leach	
880-53408-18	TH-9 (4.1')	Soluble	Solid	DI Leach	
880-53408-19	TH-10 (1')	Soluble	Solid	DI Leach	
880-53408-20	TH-10 (4.1')	Soluble	Solid	DI Leach	
880-53408-21	TH-11 (1')	Soluble	Solid	DI Leach	
880-53408-22	TH-11 (4.1')	Soluble	Solid	DI Leach	
880-53408-23	TH-12 (1')	Soluble	Solid	DI Leach	
880-53408-24	TH-12 (4.1')	Soluble	Solid	DI Leach	
880-53408-25	TH-13 (1')	Soluble	Solid	DI Leach	
880-53408-26	TH-13 (4.1')	Soluble	Solid	DI Leach	
880-53408-27	TH-14 (1')	Soluble	Solid	DI Leach	
880-53408-28	TH-14 (4.1')	Soluble	Solid	DI Leach	
880-53408-29	TH-15 (1')	Soluble	Solid	DI Leach	
880-53408-30	TH-15 (4.1')	Soluble	Solid	DI Leach	
880-53408-31	TH-16 (1')	Soluble	Solid	DI Leach	
880-53408-32	TH-16 (4.1')	Soluble	Solid	DI Leach	
880-53408-33	TH-17 (1')	Soluble	Solid	DI Leach	
880-53408-34	TH-17 (4.1')	Soluble	Solid	DI Leach	
880-53408-35	TH-18 (1')	Soluble	Solid	DI Leach	
880-53408-36	TH-18 (4.1')	Soluble	Solid	DI Leach	
MB 880-100806/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100806/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100806/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53408-17 MS	TH-9 (1')	Soluble	Solid	DI Leach	
880-53408-17 MSD	TH-9 (1')	Soluble	Solid	DI Leach	
880-53408-27 MS	TH-14 (1')	Soluble	Solid	DI Leach	
880-53408-27 MSD	TH-14 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 100871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-1	TH-1 (1')	Soluble	Solid	300.0	100805
880-53408-2	TH-1 (4.1')	Soluble	Solid	300.0	100805
880-53408-3	TH-2 (1')	Soluble	Solid	300.0	100805
880-53408-4	TH-2 (4.1')	Soluble	Solid	300.0	100805
880-53408-5	TH-3 (1')	Soluble	Solid	300.0	100805
880-53408-6	TH-3 (4.1')	Soluble	Solid	300.0	100805
880-53408-7	TH-4 (1')	Soluble	Solid	300.0	100805
880-53408-8	TH-4 (4.1')	Soluble	Solid	300.0	100805
880-53408-9	TH-5 (1')	Soluble	Solid	300.0	100805

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 100871 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-10	TH-5 (4.1')	Soluble	Solid	300.0	100805
880-53408-11	TH-6 (1')	Soluble	Solid	300.0	100805
880-53408-12	TH-6 (4.1')	Soluble	Solid	300.0	100805
880-53408-13	TH-7 (1')	Soluble	Solid	300.0	100805
880-53408-14	TH-7 (4.1')	Soluble	Solid	300.0	100805
880-53408-15	TH-8 (1')	Soluble	Solid	300.0	100805
880-53408-16	TH-8 (4.1')	Soluble	Solid	300.0	100805
MB 880-100805/1-A	Method Blank	Soluble	Solid	300.0	100805
LCS 880-100805/2-A	Lab Control Sample	Soluble	Solid	300.0	100805
LCSD 880-100805/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100805
880-53408-7 MS	TH-4 (1')	Soluble	Solid	300.0	100805
880-53408-7 MSD	TH-4 (1')	Soluble	Solid	300.0	100805

Analysis Batch: 100904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53408-17	TH-9 (1')	Soluble	Solid	300.0	100806
880-53408-18	TH-9 (4.1')	Soluble	Solid	300.0	100806
880-53408-19	TH-10 (1')	Soluble	Solid	300.0	100806
880-53408-20	TH-10 (4.1')	Soluble	Solid	300.0	100806
880-53408-21	TH-11 (1')	Soluble	Solid	300.0	100806
880-53408-22	TH-11 (4.1')	Soluble	Solid	300.0	100806
880-53408-23	TH-12 (1')	Soluble	Solid	300.0	100806
880-53408-24	TH-12 (4.1')	Soluble	Solid	300.0	100806
880-53408-25	TH-13 (1')	Soluble	Solid	300.0	100806
880-53408-26	TH-13 (4.1')	Soluble	Solid	300.0	100806
880-53408-27	TH-14 (1')	Soluble	Solid	300.0	100806
880-53408-28	TH-14 (4.1')	Soluble	Solid	300.0	100806
880-53408-29	TH-15 (1')	Soluble	Solid	300.0	100806
880-53408-30	TH-15 (4.1')	Soluble	Solid	300.0	100806
880-53408-31	TH-16 (1')	Soluble	Solid	300.0	100806
880-53408-32	TH-16 (4.1')	Soluble	Solid	300.0	100806
880-53408-33	TH-17 (1')	Soluble	Solid	300.0	100806
880-53408-34	TH-17 (4.1')	Soluble	Solid	300.0	100806
880-53408-35	TH-18 (1')	Soluble	Solid	300.0	100806
880-53408-36	TH-18 (4.1')	Soluble	Solid	300.0	100806
MB 880-100806/1-A	Method Blank	Soluble	Solid	300.0	100806
LCS 880-100806/2-A	Lab Control Sample	Soluble	Solid	300.0	100806
LCSD 880-100806/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100806
880-53408-17 MS	TH-9 (1')	Soluble	Solid	300.0	100806
880-53408-17 MSD	TH-9 (1')	Soluble	Solid	300.0	100806
880-53408-27 MS	TH-14 (1')	Soluble	Solid	300.0	100806
880-53408-27 MSD	TH-14 (1')	Soluble	Solid	300.0	100806

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Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-1 (1')

Lab Sample ID: 880-53408-1

Date Collected: 01/16/25 15:55

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 11:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 11:44	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/22/25 21:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100702	01/20/25 15:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100857	01/22/25 21:27	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100871	01/22/25 22:41	CH	EET MID

Client Sample ID: TH-1 (4.1')

Lab Sample ID: 880-53408-2

Date Collected: 01/16/25 16:10

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 12:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 12:05	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/22/25 21:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100702	01/20/25 15:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100857	01/22/25 21:42	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100871	01/22/25 22:58	CH	EET MID

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-53408-3

Date Collected: 01/16/25 16:15

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 12:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 12:25	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/22/25 21:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100702	01/20/25 15:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100857	01/22/25 21:56	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100871	01/22/25 23:04	CH	EET MID

Client Sample ID: TH-2 (4.1')

Lab Sample ID: 880-53408-4

Date Collected: 01/16/25 16:30

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 12:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 12:46	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-2 (4.1')
Date Collected: 01/16/25 16:30
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100768	01/22/25 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100702	01/20/25 15:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100857	01/22/25 22:12	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100871	01/22/25 23:09	CH	EET MID

Client Sample ID: TH-3 (1')
Date Collected: 01/16/25 16:35
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 13:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 13:06	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/22/25 22:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100702	01/20/25 15:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100857	01/22/25 22:26	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100871	01/22/25 23:15	CH	EET MID

Client Sample ID: TH-3 (4.1')
Date Collected: 01/16/25 16:50
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 13:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 13:27	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/22/25 22:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100702	01/20/25 15:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100857	01/22/25 22:40	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100871	01/22/25 23:21	CH	EET MID

Client Sample ID: TH-4 (1')
Date Collected: 01/16/25 16:55
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 13:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 13:47	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/22/25 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100702	01/20/25 15:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100857	01/22/25 22:55	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-53408-7

Date Collected: 01/16/25 16:55

Matrix: Solid

Date Received: 01/20/25 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100871	01/22/25 23:26	CH	EET MID

Client Sample ID: TH-4 (4.1')

Lab Sample ID: 880-53408-8

Date Collected: 01/16/25 17:10

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 14:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 14:07	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/22/25 23:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	100702	01/20/25 15:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100857	01/22/25 23:09	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100871	01/22/25 23:43	CH	EET MID

Client Sample ID: TH-5 (1')

Lab Sample ID: 880-53408-9

Date Collected: 01/16/25 17:15

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 14:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 14:28	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/22/25 23:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100702	01/20/25 15:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100857	01/22/25 23:25	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100871	01/22/25 23:49	CH	EET MID

Client Sample ID: TH-5 (4.1')

Lab Sample ID: 880-53408-10

Date Collected: 01/16/25 17:30

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 14:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 14:48	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/22/25 23:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100702	01/20/25 15:15	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100857	01/22/25 23:39	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100871	01/23/25 00:06	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-6 (1')

Lab Sample ID: 880-53408-11

Date Collected: 01/16/25 17:35

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 18:40	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 18:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 18:46	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100871	01/23/25 00:12	CH	EET MID

Client Sample ID: TH-6 (4.1')

Lab Sample ID: 880-53408-12

Date Collected: 01/16/25 17:50

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 19:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 19:00	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 19:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 19:31	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100871	01/23/25 00:18	CH	EET MID

Client Sample ID: TH-7 (1')

Lab Sample ID: 880-53408-13

Date Collected: 01/16/25 17:55

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 19:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 19:20	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 19:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 19:45	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100871	01/23/25 00:24	CH	EET MID

Client Sample ID: TH-7 (4.1')

Lab Sample ID: 880-53408-14

Date Collected: 01/16/25 18:10

Matrix: Solid

Date Received: 01/20/25 14:10

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	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 19:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 19:41	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-7 (4.1')
Date Collected: 01/16/25 18:10
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100768	01/23/25 20:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 20:00	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100871	01/23/25 00:29	CH	EET MID

Client Sample ID: TH-8 (1')
Date Collected: 01/17/25 09:25
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 20:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 20:01	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 20:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 20:13	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100871	01/23/25 00:35	CH	EET MID

Client Sample ID: TH-8 (4.1')
Date Collected: 01/17/25 09:35
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 20:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 20:22	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 20:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 20:29	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100805	01/21/25 15:42	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100871	01/23/25 00:41	CH	EET MID

Client Sample ID: TH-9 (1')
Date Collected: 01/17/25 09:45
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 20:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 20:42	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 20:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 20:43	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-9 (1')
Date Collected: 01/17/25 09:45
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100904	01/22/25 20:27	CH	EET MID

Client Sample ID: TH-9 (4.1')
Date Collected: 01/17/25 10:00
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 21:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 21:03	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 20:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 20:58	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100904	01/22/25 20:45	CH	EET MID

Client Sample ID: TH-10 (1')
Date Collected: 01/17/25 10:05
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 21:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 21:24	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 21:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 21:12	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100904	01/22/25 20:51	CH	EET MID

Client Sample ID: TH-10 (4.1')
Date Collected: 01/17/25 10:20
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100734	01/21/25 08:45	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100731	01/21/25 21:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 21:44	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 21:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 21:27	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100904	01/22/25 20:57	CH	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-11 (1')

Lab Sample ID: 880-53408-21

Date Collected: 01/17/25 10:25

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 11:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 11:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 21:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 21:56	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100904	01/22/25 21:03	CH	EET MID

Client Sample ID: TH-11 (4.1')

Lab Sample ID: 880-53408-22

Date Collected: 01/17/25 10:40

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 12:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 12:06	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 22:11	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100904	01/22/25 21:21	CH	EET MID

Client Sample ID: TH-12 (1')

Lab Sample ID: 880-53408-23

Date Collected: 01/17/25 10:45

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 12:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 12:26	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 22:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 22:25	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100904	01/22/25 21:27	CH	EET MID

Client Sample ID: TH-12 (4.1')

Lab Sample ID: 880-53408-24

Date Collected: 01/17/25 11:00

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 12:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 12:46	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-12 (4.1')

Lab Sample ID: 880-53408-24

Date Collected: 01/17/25 11:00

Matrix: Solid

Date Received: 01/20/25 14:10

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			100768	01/23/25 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 22:41	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	100904	01/22/25 21:33	CH	EET MID

Client Sample ID: TH-13 (1')

Lab Sample ID: 880-53408-25

Date Collected: 01/17/25 11:05

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 13:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 13:07	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 22:55	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100904	01/22/25 21:38	CH	EET MID

Client Sample ID: TH-13 (4.1')

Lab Sample ID: 880-53408-26

Date Collected: 01/17/25 11:20

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 13:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 13:27	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 23:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 23:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100904	01/22/25 21:44	CH	EET MID

Client Sample ID: TH-14 (1')

Lab Sample ID: 880-53408-27

Date Collected: 01/17/25 11:25

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 13:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 13:47	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 23:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 23:24	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-14 (1')

Lab Sample ID: 880-53408-27

Date Collected: 01/17/25 11:25

Matrix: Solid

Date Received: 01/20/25 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100904	01/22/25 21:50	CH	EET MID

Client Sample ID: TH-14 (4.1')

Lab Sample ID: 880-53408-28

Date Collected: 01/17/25 11:40

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 14:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 14:08	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 23:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 23:39	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100904	01/22/25 22:08	CH	EET MID

Client Sample ID: TH-15 (1')

Lab Sample ID: 880-53408-29

Date Collected: 01/17/25 11:45

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 14:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 14:28	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/23/25 23:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/23/25 23:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100904	01/22/25 22:14	CH	EET MID

Client Sample ID: TH-15 (4.1')

Lab Sample ID: 880-53408-30

Date Collected: 01/17/25 12:00

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 14:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 14:49	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/24/25 00:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100703	01/20/25 15:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100936	01/24/25 00:08	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100904	01/22/25 22:31	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-16 (1')

Lab Sample ID: 880-53408-31

Date Collected: 01/17/25 12:05

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 16:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 16:22	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/20/25 17:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100626	01/20/25 16:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100648	01/20/25 17:51	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100904	01/22/25 22:37	CH	EET MID

Client Sample ID: TH-16 (4.1')

Lab Sample ID: 880-53408-32

Date Collected: 01/17/25 12:20

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 16:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 16:42	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/20/25 18:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100626	01/20/25 16:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100648	01/20/25 18:06	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100904	01/22/25 22:43	CH	EET MID

Client Sample ID: TH-17 (1')

Lab Sample ID: 880-53408-33

Date Collected: 01/17/25 12:25

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 17:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 17:03	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/20/25 18:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100626	01/20/25 16:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100648	01/20/25 18:21	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100904	01/22/25 22:49	CH	EET MID

Client Sample ID: TH-17 (4.1')

Lab Sample ID: 880-53408-34

Date Collected: 01/17/25 12:40

Matrix: Solid

Date Received: 01/20/25 14:10

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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 17:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 17:23	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyon 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Client Sample ID: TH-17 (4.1')
Date Collected: 01/17/25 12:40
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100768	01/20/25 18:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100626	01/20/25 16:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100648	01/20/25 18:50	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100904	01/22/25 22:55	CH	EET MID

Client Sample ID: TH-18 (1')
Date Collected: 01/17/25 12:45
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 17:44	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/20/25 19:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100626	01/20/25 16:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100648	01/20/25 19:04	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100904	01/22/25 23:01	CH	EET MID

Client Sample ID: TH-18 (4.1')
Date Collected: 01/17/25 13:00
Date Received: 01/20/25 14:10

Lab Sample ID: 880-53408-36
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	100735	01/21/25 08:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100729	01/21/25 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100864	01/21/25 18:04	MNR	EET MID
Total/NA	Analysis	8015 NM		1			100768	01/20/25 19:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100626	01/20/25 16:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100648	01/20/25 19:19	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100806	01/21/25 15:44	SA	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	100904	01/22/25 23:07	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 22

Job ID: 880-53408-1
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 22

Job ID: 880-53408-1
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 22

Job ID: 880-53408-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-53408-1	TH-1 (1')	Solid	01/16/25 15:55	01/20/25 14:10	1'
880-53408-2	TH-1 (4.1')	Solid	01/16/25 16:10	01/20/25 14:10	4.1'
880-53408-3	TH-2 (1')	Solid	01/16/25 16:15	01/20/25 14:10	1'
880-53408-4	TH-2 (4.1')	Solid	01/16/25 16:30	01/20/25 14:10	4.1'
880-53408-5	TH-3 (1')	Solid	01/16/25 16:35	01/20/25 14:10	1'
880-53408-6	TH-3 (4.1')	Solid	01/16/25 16:50	01/20/25 14:10	4.1'
880-53408-7	TH-4 (1')	Solid	01/16/25 16:55	01/20/25 14:10	1'
880-53408-8	TH-4 (4.1')	Solid	01/16/25 17:10	01/20/25 14:10	4.1'
880-53408-9	TH-5 (1')	Solid	01/16/25 17:15	01/20/25 14:10	1'
880-53408-10	TH-5 (4.1')	Solid	01/16/25 17:30	01/20/25 14:10	4.1'
880-53408-11	TH-6 (1')	Solid	01/16/25 17:35	01/20/25 14:10	1'
880-53408-12	TH-6 (4.1')	Solid	01/16/25 17:50	01/20/25 14:10	4.1'
880-53408-13	TH-7 (1')	Solid	01/16/25 17:55	01/20/25 14:10	1'
880-53408-14	TH-7 (4.1')	Solid	01/16/25 18:10	01/20/25 14:10	4.1'
880-53408-15	TH-8 (1')	Solid	01/17/25 09:25	01/20/25 14:10	1'
880-53408-16	TH-8 (4.1')	Solid	01/17/25 09:35	01/20/25 14:10	4.1'
880-53408-17	TH-9 (1')	Solid	01/17/25 09:45	01/20/25 14:10	1'
880-53408-18	TH-9 (4.1')	Solid	01/17/25 10:00	01/20/25 14:10	4.1'
880-53408-19	TH-10 (1')	Solid	01/17/25 10:05	01/20/25 14:10	1'
880-53408-20	TH-10 (4.1')	Solid	01/17/25 10:20	01/20/25 14:10	4.1'
880-53408-21	TH-11 (1')	Solid	01/17/25 10:25	01/20/25 14:10	1'
880-53408-22	TH-11 (4.1')	Solid	01/17/25 10:40	01/20/25 14:10	4.1'
880-53408-23	TH-12 (1')	Solid	01/17/25 10:45	01/20/25 14:10	1'
880-53408-24	TH-12 (4.1')	Solid	01/17/25 11:00	01/20/25 14:10	4.1'
880-53408-25	TH-13 (1')	Solid	01/17/25 11:05	01/20/25 14:10	1'
880-53408-26	TH-13 (4.1')	Solid	01/17/25 11:20	01/20/25 14:10	4.1'
880-53408-27	TH-14 (1')	Solid	01/17/25 11:25	01/20/25 14:10	1'
880-53408-28	TH-14 (4.1')	Solid	01/17/25 11:40	01/20/25 14:10	4.1'
880-53408-29	TH-15 (1')	Solid	01/17/25 11:45	01/20/25 14:10	1'
880-53408-30	TH-15 (4.1')	Solid	01/17/25 12:00	01/20/25 14:10	4.1'
880-53408-31	TH-16 (1')	Solid	01/17/25 12:05	01/20/25 14:10	1'
880-53408-32	TH-16 (4.1')	Solid	01/17/25 12:20	01/20/25 14:10	4.1'
880-53408-33	TH-17 (1')	Solid	01/17/25 12:25	01/20/25 14:10	1'
880-53408-34	TH-17 (4.1')	Solid	01/17/25 12:40	01/20/25 14:10	4.1'
880-53408-35	TH-18 (1')	Solid	01/17/25 12:45	01/20/25 14:10	1'
880-53408-36	TH-18 (4.1')	Solid	01/17/25 13:00	01/20/25 14:10	4.1'

Chain of Custody

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



Environment Testing
 Xenco



880-53408 Chain of Custody

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Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project: NM	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

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

SAMPLE RECEIPT				ANALYSIS REQUEST										Preservative Codes			
Project Name:	Project Number:	Project Location:	PO #:	Turn Around	Pres. Code												
				<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush												None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
Samples Received Intact: Yes No				Thermometer ID: 7.8	Wet Ice: Yes No												
Cooler Custody Seals: Yes No				Correction Factor: 2.7													
Sample Custody Seals: Yes No				Temperature Reading: 2.7													
Total Containers:				Corrected Temperature: 2.4													
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments
TH-1 (1')	S	1/16/25	1555	1'	C	1											
TH-1 (4.1')			1610	4.1'													
TH-2 (1')			1615	1'													
TH-2 (4.1')			1630	4.1'													
TH-3 (1')			1635	1'													
TH-3 (4.1')			1650	4.1'													
TH-4 (1')			1655	1'													
TH-4 (4.1')			1710	4.1'													
TH-5 (1')			1715	1'													
TH-5 (4.1')			1730	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 Ti 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 Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins 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
Cindy Crain		1/16/25 M/D			

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

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

Environment Testing
Xenco



Work Order No: _____

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Project Manager: <u>Cindy Crain</u>		Bill to: (if different)	
Company Name: <u>Crain Environmental</u>		Company Name: <u>FAE II</u>	
Address: <u>2925 E. 17th St.</u>		Address: <u>11757 Katy Fwy, Ste 725</u>	
City, State ZIP: <u>Abilene, TX 79701</u>		City, State ZIP: <u>Houston, TX 77079</u>	
Phone: <u>(575) 441-7244</u>		Email: <u>Cindy.Crain@gmail.com</u>	

Project Name: <u>Laneway 22</u>		Turn Around	
Project Number: <u>1906020</u>		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location: <u>Lea Co., NM</u>		Due Date: _____	
Sampler's Name: <u>Cindy Crain</u>		TAT starts the day received by the lab, if received by 4:30pm	
PO #: _____		TAT starts the day received by the lab, if received by 4:30pm	

SAMPLE RECEIPT				ANALYSIS REQUEST				PRESERVATIVE CODES			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	Parameters	Pres. Code	None: NO	DI Water: H ₂ O	Cool: Cool	MeOH: Me
TH-6 (1')	S	1/16/25	1735	1'	C	TPH 8015 M				HCL: HC	HNO ₃ : HN
TH-6 (4.1')			1750	4.1'						H ₂ SO ₄ : H ₂	NaOH: Na
TH-7 (1')			1755	1'						H ₃ PO ₄ : HP	
TH-7 (4.1')			1810	4.1'						NaHSO ₄ : NABIS	
TH-8 (1')		1/17/25	0925	1'						Na ₂ S ₂ O ₅ : NaSO ₃	
TH-8 (4.1')			0935	4.1'						Zn Acetate+NaOH: Zn	
TH-9 (1')			0945	1'						NaOH+Ascorbic Acid: SACP	
TH-9 (4.1')			1000	4.1'							
TH-10 (1')			1005	1'							
TH-10 (4.1')			1020	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 Ti 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 Ti U Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins 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
<u>Cindy Crain</u>		1/25 10:00			

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

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

Environment Testing
Xenco



Work Order No: _____

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

Project Name:	Lamurgen 22
Project Number:	
Project Location:	Lpa Corp NM
Sampler's Name:	Cindy Crain
P.O. #:	

Turn Around	Pres. Code
<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Due Date:	
TAT starts the day received by the lab, if received by 4:30pm	

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

SAMPLE RECEIPT	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST													Preservative Codes	Sample Comments			
								Parameters	None: NO	DI Water: H ₂ O	Cool: Cool	MeOH: Me	HCL: HC	HNO ₃ : HN	H ₂ SO ₄ : H ₂	NaOH: Na	H ₃ PO ₄ : HP	NaHSO ₄ : NABIS	Na ₂ S ₂ O ₃ : NaSO ₃	Zn Acetate+NaOH: Zn			NaOH+Ascorbic Acid: SAPC		
TH-11 (1')	5	S	1/17/25	1025	1"	C	1	TPH 80.5M																	
TH-11 (4.1')				1040	4.1"			BTEX																	
TH-12 (1')				1045	1"			Chlorides																	
TH-12 (4.1')				1100	4.1"																				
TH-13 (1')				1105	1"																				
TH-13 (4.1')				1120	4.1"																				
TH-14 (1')				1125	1"																				
TH-14 (4.1')				1140	4.1"																				
TH-15 (1')				1145	1"																				
TH-15 (4.1')				1200	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 Ti 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 Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins 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)	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
1 <i>Cindy Crain</i>				1/17/25	1402
3					
5					

Revised Date: 08/25/2020 Rev. 2020.2



Chain of Custody

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

Environment Testing
Xenco

Work Order No:

Page 4 of 4
www.xenco.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		ACaPT	Other:		

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

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes									
Project Number:	Project Location:	Project Name:	PO #:	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Due Date:	TAT starts the day received by the lab, if received by 4:30pm	Parameters												Sample Comments						
Temp Blank:		Yes	No	Wet Ice:	Yes	No																			
SAMPLE RECEIPT				Temp Blank:		Yes	No	Thermometer ID:													None: NO DI Water: H ₂ O MeOH: Me HNO ₃ : HN NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC				
Samples Received Intact:				Yes	No	N/A	Correction Factor:																		
Cooler Custody Seals:				Yes	No	N/A	Temperature Reading:																		
Sample Custody Seals:				Yes	No	N/A	Corrected Temperature:																		
Total Containers:																									
Sample Identification				Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																
THH-6 (1')				S	1/17/25	1205	1'	C	1	TFH 8015M	BTEX	Chlorides													
TH-16 (4.1')				↓	↓	1220	4.1'	↓	↓	↓	↓	↓													
TH-17 (1')				↓	↓	1225	1'	↓	↓	↓	↓	↓													
TH-17 (4.1')				↓	↓	1240	4.1'	↓	↓	↓	↓	↓													
TH-18 (1')				↓	↓	1245	1'	↓	↓	↓	↓	↓													
TH-18 (4.1')				↓	↓	1300	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 \$45.00 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			11/20/15 1410			
3						

[illegible]

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-53408-1

SDG Number: Lea Co, NM

Login Number: 53408

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/29/2025 10:03:53 AM

JOB DESCRIPTION

Lamunyan 22
Lea CO, NM

JOB NUMBER

880-53648-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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
1/29/2025 10:03:53 AM

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

Client: Crain Environmental
Project/Site: Lamunyan 22

Laboratory Job ID: 880-53648-1
SDG: Lea CO, NM

Table of Contents

Cover Page	1
Table of Contents	3
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Definitions/Glossary

Client: Crain Environmental
Project/Site: Lamunyan 22

Job ID: 880-53648-1
SDG: Lea CO, NM

Qualifiers

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Lamunyan 22

Job ID: 880-53648-1

Job ID: 880-53648-1

Eurofins Midland

Job Narrative
880-53648-1

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 1/24/2025 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Lamunyan 22

Job ID: 880-53648-1
SDG: Lea CO, NM

Client Sample ID: TH-5 (2')
Date Collected: 01/16/25 17:20
Date Received: 01/24/25 15:35
Sample Depth: 2'

Lab Sample ID: 880-53648-1
Matrix: Solid

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			01/29/25 01:05	1

Client Sample ID: TH-5 (3')
Date Collected: 01/16/25 17:25
Date Received: 01/24/25 15:35
Sample Depth: 3'

Lab Sample ID: 880-53648-2
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		10.1		mg/Kg			01/29/25 01:11	1

QC Sample Results

Client: Crain Environmental
Project/Site: Lamunyan 22

Job ID: 880-53648-1
SDG: Lea CO, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101325/1-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 101377									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/29/25 00:30	1

Lab Sample ID: LCS 880-101325/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 101377									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	269.2		mg/Kg		108	90 - 110		

Lab Sample ID: LCSD 880-101325/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 101377									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	269.0		mg/Kg		108	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Lamunyan 22

Job ID: 880-53648-1
SDG: Lea CO, NM

HPLC/IC

Leach Batch: 101325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53648-1	TH-5 (2')	Soluble	Solid	DI Leach	
880-53648-2	TH-5 (3')	Soluble	Solid	DI Leach	
MB 880-101325/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101325/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101325/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 101377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53648-1	TH-5 (2')	Soluble	Solid	300.0	101325
880-53648-2	TH-5 (3')	Soluble	Solid	300.0	101325
MB 880-101325/1-A	Method Blank	Soluble	Solid	300.0	101325
LCS 880-101325/2-A	Lab Control Sample	Soluble	Solid	300.0	101325
LCSD 880-101325/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101325

Lab Chronicle

Client: Crain Environmental
Project/Site: Lamunyan 22

Job ID: 880-53648-1
SDG: Lea CO, NM

Client Sample ID: TH-5 (2')
Date Collected: 01/16/25 17:20
Date Received: 01/24/25 15:35

Lab Sample ID: 880-53648-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	101325	01/27/25 16:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101377	01/29/25 01:05	CH	EET MID

Client Sample ID: TH-5 (3')
Date Collected: 01/16/25 17:25
Date Received: 01/24/25 15:35

Lab Sample ID: 880-53648-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	101325	01/27/25 16:49	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	101377	01/29/25 01:11	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: Lamunyan 22

Job ID: 880-53648-1
SDG: Lea CO, NM

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

- 1
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Method Summary

Client: Crain Environmental
Project/Site: Lamunyan 22

Job ID: 880-53648-1
SDG: Lea CO, NM

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency

Laboratory References:

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

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Sample Summary

Client: Crain Environmental
Project/Site: Lamunyan 22

Job ID: 880-53648-1
SDG: Lea CO, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-53648-1	TH-5 (2')	Solid	01/16/25 17:20	01/24/25 15:35	2'
880-53648-2	TH-5 (3')	Solid	01/16/25 17:25	01/24/25 15:35	3'

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000 53648 Chain of Custody

WVC

Page 1 of 1

Chain of Custody

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

Environment Testing
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[illegible]

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
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Revised Date: 08/25/2020 Rev: 20202

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-53648-1

SDG Number: Lea CO, NM

Login Number: 53648

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Appendix D: Photographic Documentation

APPENDIX D
PHOTOGRAPHIC DOCUMENTATION - JANUARY 16 and 17, 2025
LAMUNYON #022



View to S of TH-1.



View to E of TH-2.



View to S of TH-3.



View to SE of TH-4.



View to NE of TH-5.



View to SE of TH-6.



View to N of TH-7.



View to NW of TH-8.



View to N of TH-9.



View to NW of TH-10.

APPENDIX D
PHOTOGRAPHIC DOCUMENTATION - JANUARY 16 and 17, 2025
LAMUNYON #022



View to E of TH-11.



View to NW of TH-12.



View to NE of TH-13.



View to NE of TH-14.



View to NE of TH-15.



View of TH-16.



View to N of TH-17.



View to NW of TH-18.

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

Action 443246

QUESTIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 443246
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411049662
Incident Name	NAPP2411049662 C E LAMUNYON #022 @ 30-025-22379
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-22379] C E LAMUNYON #022

Location of Release Source	
Please answer all the questions in this group.	
Site Name	C E Lamunyon #022
Date Release Discovered	04/18/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water 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	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Well Produced Water Released: 23 BBL Recovered: 20 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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, Page 2

Action 443246

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 443246
	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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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: 03/17/2025
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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 443246

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 443246
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>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.</i>	
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)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (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	Between 1 and 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	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	17400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	55.6
GRO+DRO (EPA SW-846 Method 8015M)	55.6
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	05/05/2025
On what date will (or did) the final sampling or liner inspection occur	06/17/2025
On what date will (or was) the remediation complete(d)	07/31/2025
What is the estimated surface area (in square feet) that will be reclaimed	142500
What is the estimated volume (in cubic yards) that will be reclaimed	21111
What is the estimated surface area (in square feet) that will be remediated	142500
What is the estimated volume (in cubic yards) that will be remediated	21111
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 443246

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 443246
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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.
<i>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>	
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: 03/17/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 443246

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 443246
	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

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QUESTIONS, Page 6

Action 443246

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 443246
	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

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CONDITIONS

Action 443246

CONDITIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 443246
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The Variance Request for confirmation samples only being analyzed for chlorides is Denied. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The Variance Request for 400 ft2 floor confirmation sample size is approved. The release area will still need confirmation sidewall samples representing no more than 200 ft2. 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, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less.	3/24/2025
rhamlet	Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please make sure that the edge of the release extent is accurately defined, especially around equipment. All off pad areas must meet reclamation standards in the OCD Spill Rule. The work will need to be completed in 90 days after the report has been reviewed.	3/24/2025