Released Volume Calculation

Length		50 feet	
Width		29 feet	
Thickness		2 in	
	Gals	Bbls	

2900 69.04762 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 2900 gallons (US, dry)

69.05 bbls

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

QUESTIONS

Action 335348

QUESTIONS

ı	Operator:	OGRID:
ı	FAE II Operating LLC	329326
ı	11757 Katy Freeway, Suite 725	Action Number:
ı	Houston, TX 77079	335348
ı		Action Type:
ı		[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2410851745
Incident Name	NAPP2410851745 C E LAMUNYON #023 @ 30-025-22402
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Well	[30-025-22402] C E LAMUNYON #023

Location of Release Source	
Please answer all the questions in this group.	
Site Name	C E Lamunyon #023
Date Release Discovered	04/16/2024
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	
daterial(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: Equipment Failure Well Produced Water Released: 70 BBL Recovered: 60 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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.

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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 335348

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	ONS (continued)
Operator:	OGRID:
FAE II Operating LLC	329326
11757 Katy Freeway, Suite 725	Action Number:
Houston, TX 77079	335348
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)
QUESTIONS	[5]
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
L =	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Alexis Bolanos Title: Production & Regulatory Analyst Email: alex@faenergyus.com

Date: 04/19/2024

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

QUESTIONS, Page 3

Action 335348

QUESTIONS (continued)

Operator:	OGRID:
FAE II Operating LLC	329326
11757 Katy Freeway, Suite 725	Action Number:
Houston, TX 77079	335348
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.	
What method was used to determine the depth to ground water	Not answered.	
Did this release impact groundwater or surface water	Not answered.	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.	
An occupied permanent residence, school, hospital, institution, or church	Not answered.	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.	
Any other fresh water well or spring	Not answered.	
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.	
A wetland	Not answered.	
A subsurface mine	Not answered.	
An (non-karst) unstable area	Not answered.	
Categorize the risk of this well / site being in a karst geology	Not answered.	
A 100-year floodplain	Not answered.	
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	No	
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.		

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CONDITIONS

Action 335348

CONDITIONS

Operator:	OGRID:
FAE II Operating LLC	329326
11757 Katy Freeway, Suite 725	Action Number:
Houston, TX 77079	335348
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By		Condition Date
scwells	None	4/19/2024



Site Characterization Report and Remediation Workplan

March 15, 2025

Lamunyon #023 Produced Water Release Incident No. nAPP2410851745 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

•



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APPENDICES

Appendix A – NMOCD Correspondence

Appendix B – NMOSE Point of Diversion Summaries

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

Appendix D – Photographic Documentation



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 #023 (Site), located approximately 10 miles southeast of Eunice, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release are 32.2807884, -103.1657257. 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 16, 2024, a release from the well at the Lamunyon #023 was discovered. As a result, approximately 70 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. The released fluid covered a surface area of approximately 81,480 square feet. Approximately 60 bbls of fluid were recovered. The release point and the surface extent of the release are depicted on Figure 2.

A Notification of Release (NOR) was submitted to the New Mexico Oil Conservation Division (NMOCD) on April 17, 2024, and Incident #nAPP2410851745 was assigned.

On October 3, 2024, the NMOCD approved an extension request until December 16, 2024, to submit a Site Characterization Report and Remediation Workplan (Workplan). On December 19, 2024, the NMOCD approved a 90-day extension for submitting the Workplan by March 17, 2025. Appendix B provides a copy of NMOCD correspondence.

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

3.0 NMOCD Closure Criteria

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

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



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

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

3.1 Groundwater Evaluation

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

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

Nearby Water Wells

Well ID	Location from Release Site	Year	Use	Total Depth / Depth
		Installed		to Water (feet bgs)
CP 00375 POD 1	Approx. 2,086 feet to NE	Unknown	N/A	160 / Unknown
CP 00480 POD 1	Approx. 5,218 feet to NE	1968	N/A	6,281 / 600
CP 01555 POD 1	Approx. 4,873 feet to SE	Unknown	N/A	Unknown / Unknown
CP 00407	Approx. 3,257 feet to SW	Unknown	N/A	Unknown / Unknown

3.2 Surface Features and Other Development

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
 - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).

Lamunyon 23 Produced Water Release Site Characterization Report and Remediation Workplan



- 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, well CP-00375 POD 1 will be investigated to determine whether it is possible to obtain a current depth to groundwater. If well CP-00375 POD 1 is 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),

Lamunyon 23 Produced Water Release Site Characterization Report and Remediation Workplan



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 competed 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

		Closure Criteria Based on Depth to Groundwater (mg/kg)			
Consti	tuent of Concern	≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs	
Chloride (EPA 300)		600	10,000	20,000	
TPH (EPA	GRO + DRO + MRO	100	2,500	2,500	
8015M)	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, 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 17, 2025, soil samples (S-1 through S-15) were collected at 15 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 TPH and BTEX were reported below the test method detection limits in all samples. Concentrations of chlorides were reported below the Closure Criteria (assuming depth to groundwater is greater than 100' bgs) in samples from S-1, S-2, S-5, S-7, S-11, S-13, S-14, and S-15.

Upon receipt of the laboratory results, samples from S-3, S-6, and S-8 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 above the Closure Criteria in samples from S-3 (1' and 3' bgs), S-4 (1' bgs), S-6 (1' bgs), S-8 (1' bgs), S-9 (1' bgs), S-10 (1' bgs), and S-12 (1' bgs).



4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Job Numbers 880-53406-1 and 880-53650-1 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 in all samples. Concentrations of chlorides were reported above the Closure Criteria in 7 samples, as listed on Table 1 and shown on Figure 2.

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, 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

Page 16 of 126

TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FAE II OPERATING, LLC LAMUNYON #023 NMOCD INCIDENT # nAPP2410851745

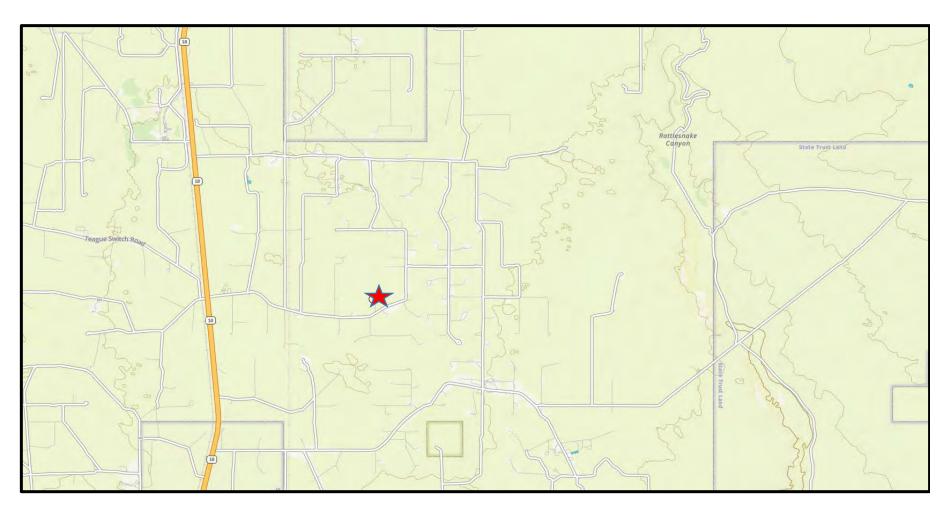
Sample ID	Sample Date	Sample DepS	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Etylbenzene	Total Xylenes	Total BTEX	Chloride
					milligrams	s per kilograr	n (mg/kg)	ı					
N	IMOCD Clos	ure Criteria					100	10	-	-	-	50	600
NMOC	CD Closure C	criteria (>4' l	bgs)	GRO + DR	RO = 1,000	-	2,500	10	-	-	-	50	20,000
S-1 (1')	01/17/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	0.0103	<0.00397	<0.00397	526
S-1 (4.1')	01/17/25	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	2,230
S-2 (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	311
S-2 (4.1')	01/17/25	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	310
S-3 (1')	01/17/25	1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,600
S-3 (1)	01/17/25	2'	In Situ			<u></u>						<0.00390 	356
S-3 (3')	01/17/25	3'	In Situ										807
S-3 (4.1')	01/17/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	58.0
S-4 (1')	01/17/25	1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,290 F1
S-4 (4.1')	01/17/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00399	<0.00399	1,140
													,
S-5 (1')	01/17/25 01/17/25	1' 	In Situ In Situ	<49.9 <50.0	<49.9 <50.0	<49.9 <50.0	<49.9 <50.0	<0.00199 <0.00199	<0.00199 <0.00199	<0.00199 <0.00199	<0.00398 <0.00398	<0.00398 <0.00398	51.1 2,550
S-5 (4.1')	01/11/23	4.1	III Silu	₹50.0		\50.0	\ 50.0	<0.00199	<0.00199	<0.00199	<0.00396	<0.00396	2,550
S-6 (1')	01/17/25	1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	7,500
S-6 (2')	01/17/25	2'	In Situ										96.8
S-6 (3')	01/17/25	3'	In Situ In Situ		 -40.0	 <49.8		 <0.00201	 -0.00201	 <0.00201			104 28.7
S-6 (4.1')	01/17/25	4.1'	in Silu	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	20.7
S-7 (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	186
S-7 (4.1')	01/17/25	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	179
S-8 (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	1,020
S-8 (2')	01/17/25	2'	In Situ										68.7
S-8 (3')	01/17/25	3'	In Situ										15.0
S-8 (4.1')	01/17/25	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	25.0
S-9 (1')	01/17/25	1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	3,020 F1
S-9 (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	5,410
S-10 (1')	01/17/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	3,120
S-10 (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	1,240
S-11 (1')	01/17/25	1'	In Situ	<10.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00100	<0.00308	<0.00398	304
S-11 (1) S-11 (4.1')	01/17/25	<u> </u>	In Situ	<49.7 <49.9	<49.7 <49.9	<49.7 <49.9	<49.7 <49.9	<0.00199	<0.00199	<0.00199 <0.00200	<0.00398 <0.00399	<0.00398	2,770
													·
S-12 (1')	01/17/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	4,040
S-12 (4.1')	01/17/25	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5,780
S-13 (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	287
S-13 (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	1,560
S-14 (1')	01/17/25	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	71.6
S-14 (4.1')	01/17/25	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	56.1
S-15 (1')	01/17/25	1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	513
S-15 (4.1')	01/17/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	2,200

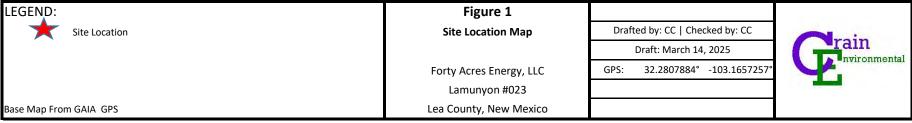
Notes:

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

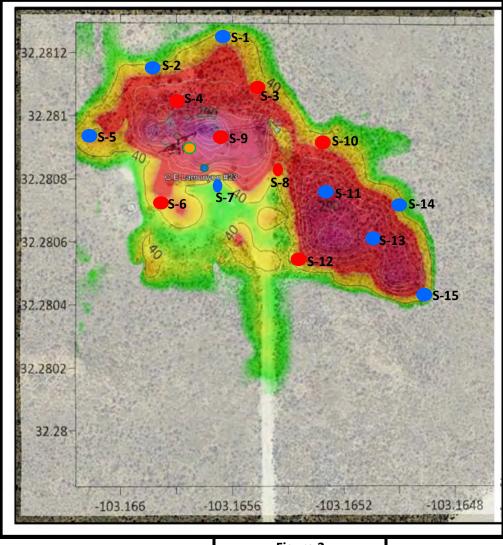


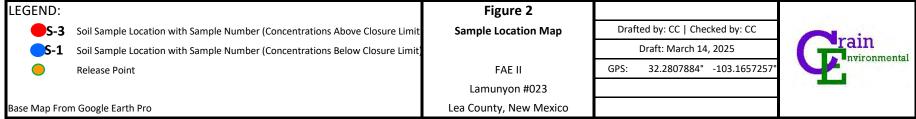
FIGURES





D 1 1 7 ' 5/14/2025 10 45 10 434





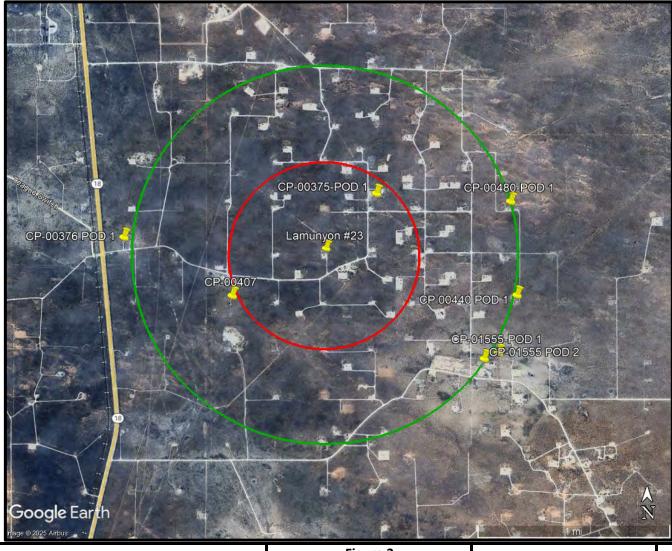




Figure 3
Wellhead Protection Area Map
Forty Acres Energy, LLC

Forty Acres Energy, LLC Lamunyon #023 Lea County, New Mexico Drafted by: CC | Checked by: CC

Draft: March 14, 2025

GPS: 32.2807884° -103.165725



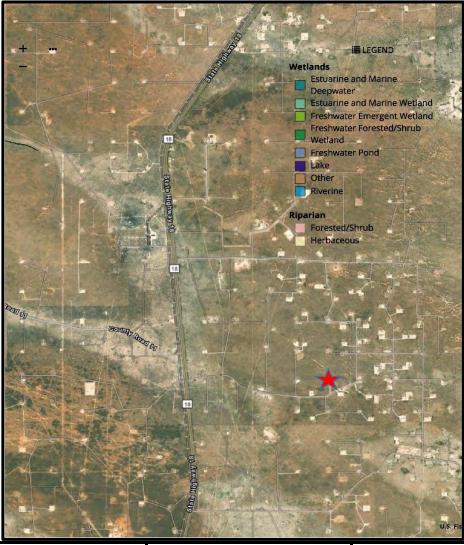




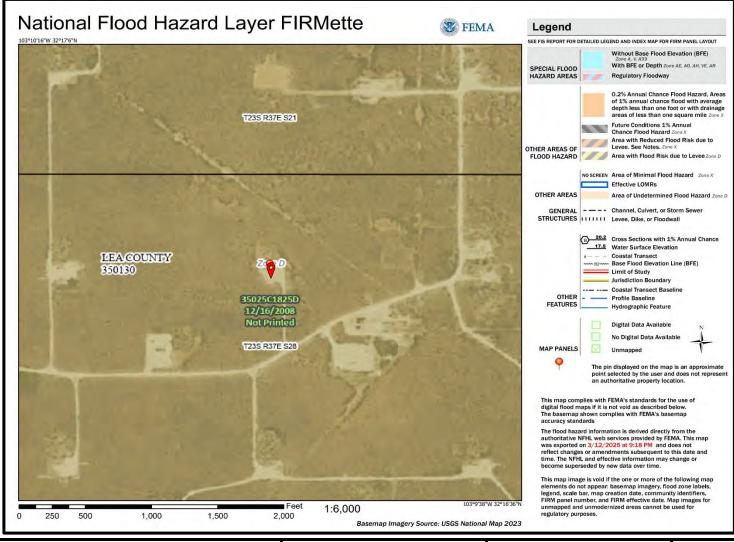
Figure 4
National Wetlands
Inventory Map
Forty Acres Energy, LLC
Lamunyon #023
Lea County, New Mexico

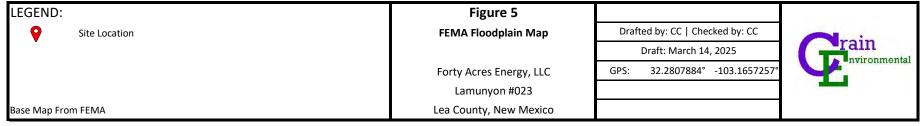
Drafted by: CC | Checked by: CC

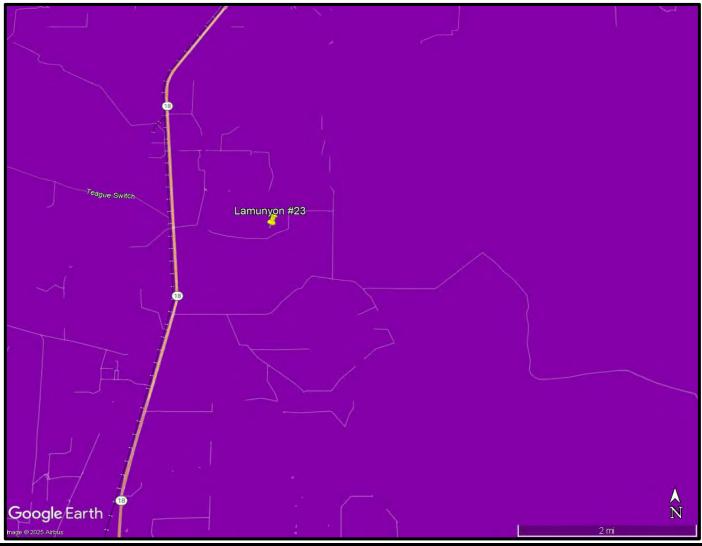
Draft: March 14, 2025

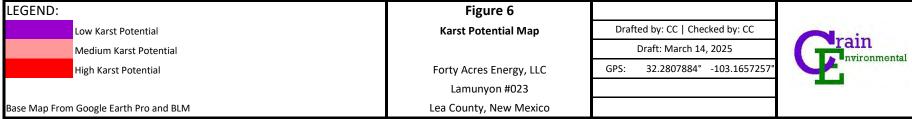
GPS: 32.2807884° -103.1657257













Appendix A: NMOCD Correspondence



Cindy Crain <cindy.crain@gmail.com>

FW: FAE II Operating C141 Extension Request for Incident # nAPP2410851745 (C E Lamunyon #023)

1 message

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

Wed, Dec 4, 2024 at 1:19 PM

From: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Sent: Thursday, October 3, 2024 8:16 AM **To:** Alex Bolanos <alex@faenergyus.com> **Cc:** Adam Holcomb <adam@faenergyus.com>

Subject: FAE II Operating C141 Extension Request for Incident # nAPP2410851745 (C E Lamunyon #023)

Good morning Alex,

Thank you for the correspondence.

The incident remediation closure report due date (RCRDD) had lapsed after July 15, 2024. In the future, please submit your requests prior to its RCRDD. Failure to do so may result in any request being denied.

Given the circumstance, your request for a time extension request is approved. The Remediation Due date has been updated to 12/16/2024.

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

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

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

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

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

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



Previous email submittal:

Alex Bolanos<alex@faenergyus.com>

To: Velez, Nelson, EMNRD

Cc:Adam Holcomb <adam@faenergyus.com>

Wed 10/2/2024 9:31 AM

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

Nelson,

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

Incident Number

Location

nAPP2411049662	LAMUNYON 022
nAPP2410851745	LAMUNYON 023
nAPP2412157442	LAMUNYON 056

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

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

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

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

Thanks Nelson.

Alex Bolanos

Regulatory/Production

Forty Acres Energy

(c) 836-689-3788

alex@faenergyus.com

RE: FAE II Operating C141 Extension Request



Alex Bolanos

to Nelson,, Adam, Billy, me, Rogelio 🃄

Dec 16, 2024, 4:49 PM



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

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

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

Thanks.

Alex Bolanos

From: Alex Bolanos

Sent: Wednesday, October 2, 2024 10:31 AM

To: Velez, Nelson, EMNRD < Nelson.Velez@emnrd.nm.gov>

Cc: Adam Holcomb adam@faenergyus.com
Subject: FAE II Operating C141 Extension Request

Nelson.

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

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

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

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

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

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

Thanks Nelson.

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



Velez, Nelson, EMNRD

to Alex, Adam, Billy, me, Rogelio

Dec 19, 2024, 4:18 PM



Good afternoon Alex,

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

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

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

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

Regards,

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



Appendix B: NMOSE Point of Diversion Summaries

quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest **Well Tag POD Nbr** Q64 Q16 Q4 Sec Tws Rng Х Υ Мар 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.

3/12/25 2:31 PM MST Point of Diversion Summary

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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	Υ	Мар
	CP 00480 POD1		SW	SE	22	235	37E	674340.0	3573467.0 *	•

* UTM location was derived from PLSS - see Help

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

Water Bearing Stratifications:

Тор	Bottom	Description
3861	5036	Other/Unknown

Casing Perforations:

Тор	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.

3/12/25 2:19 PM MST Point of Diversion Summary

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quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest **Well Tag POD Nbr** Q64 Q16 Q4 Tws Rng Х Мар Sec 23S CP 01555 POD1 SW NW SE 27 37E 674227.9 3572201.6 * UTM location was derived from PLSS - see Help **Driller License: Driller Company: Driller Name: Drill Start Date: Drill Finish Date:** Plug Date: Log File Date: **PCW Rcv Date:** Source: **Pump Type: Pipe Discharge Size: Estimated Yield:** Casing Size: **Depth Well: Depth Water:**

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.

3/12/25 2:27 PM MST Point of Diversion Summary

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quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest **Well Tag POD Nbr** Q64 Q16 Q4 Tws Rng Х Мар Sec CP 00375 POD1 SE SE 21 23S 37E 673133.0 3573448.0 * * UTM location was derived from PLSS - see Help **Driller License:** UNKNOWN 122 **Driller Company: Driller Name: Drill Start Date: Drill Finish Date:** Plug Date: **PCW Rcv Date:** Shallow Log File Date: Source: **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.

3/12/25 2:24 PM MST Point of Diversion Summary

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/23/2025 3:45:43 PM

JOB DESCRIPTION

Lamunyon 23 Lea Co, NM

JOB NUMBER

880-53406-1

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

Brianna Tel

Generated 1/23/2025 3:45:43 PM

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

19

13

Client: Crain Environmental
Project/Site: Lamunyon 23

Laboratory Job ID: 880-53406-1 SDG: Lea Co, NM

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Definitions/Glossary

Client: Crain Environmental Job ID: 880-53406-1 Project/Site: Lamunyon 23 SDG: Lea Co, NM

Qualifiers

GC VOA Qualifier

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

GC Semi VOA

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

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
\(\phi \)	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

IVIDL	Michiod 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)
ND	Not betected at the reporting infin (or MbE of Ebe if Showin)

NEG	Negative / Absent
POS	Positive / Present
DOL	Dractical Occuptitation Limit

PQL Practical Quantitation L	imi
------------------------------	-----

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 23

Job ID: 880-53406-1

Job ID: 880-53406-1 **Eurofins Midland**

Job Narrative 880-53406-1

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
- 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 2:07 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.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (1') (880-53406-1), S-1 (4.1') (880-53406-2), S-2 (1') (880-53406-3), S-2 (4.1') (880-53406-4), S-3 (1') (880-53406-5), S-3 (4.1') (880-53406-6), S-4 (1') (880-53406-7), S-4 (4.1) (880-53406-8), S-5 (1) (880-53406-9), S-5 (4.1) (880-53406-10), S-6 (1) (880-53406-11), S-6 (4.1) (880-53406-12), S-7 (1') (880-53406-13), S-7 (4.1') (880-53406-14), S-8 (1') (880-53406-15), S-8 (4.1') (880-53406-16), S-9 (1') (880-53406-17), S-9 (4.1) (880-53406-18), S-10 (1) (880-53406-19), S-10 (4.1) (880-53406-20), S-11 (1) (880-53406-21), S-11 (4.1') (880-53406-22), S-12 (1') (880-53406-23), S-12 (4.1') (880-53406-24), S-13 (1') (880-53406-25), S-13 (4.1') (880-53406-26), S-14 (1') (880-53406-27), S-14 (4.1') (880-53406-28), S-15 (1') (880-53406-29) and S-15 (4.1') (880-53406-30).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-100710 and analytical batch 880-100623 was outside the upper control limits.

Method 8021B; Surrogate recovery for the following samples were outside control limits; S-15 (1') (880-53406-29), S-15 (4.1') (880-53406-30) and (880-53413-A-1-G). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-1 (4.1') (880-53406-2), S-2 (1') (880-53406-3), S-2 (4.1') (880-53406-4), S-3 (1') (880-53406-5), S-3 (4.1') (880-53406-6), S-4 (1') (880-53406-7), S-5 (1') (880-53406-9), S-6 (1') (880-53406-11), S-6 (4.1') (880-53406-12), S-7 (1') (880-53406-13), S-7 (4.1') (880-53406-14), S-8 (4.1') (880-53406-16), S-9 (4.1') (880-53406-18) and S-10 (4.1') (880-53406-20). Percent recoveries are based on the amount spiked.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: S-1 (1') (880-53406-1). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-10 (1') (880-53406-19), (880-53406-A-1-B MS) and (880-53406-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-100701 and analytical batch 880-100739 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-12 (4.1') (880-53406-24), S-15 (4.1') (880-53406-30), (880-53406-A-21-B MS) and (880-53406-A-21-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-13 (4.1') (880-53406-26).

Case Narrative

Client: Crain Environmental Project: Lamunyon 23

Job ID: 880-53406-1

Job ID: 880-53406-1 (Continued)

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Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-100702 and analytical batch 880-100857 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-11 (4.1') (880-53406-22), S-12 (1') (880-53406-23), S-13 (1') (880-53406-25), S-14 (1') (880-53406-27), S-14 (4.1') (880-53406-28) and S-15 (1') (880-53406-29). Percent recoveries are based on the amount spiked.

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

HPLC/IC

Method 300 ORGFM 28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-100804 and analytical batch 880-100872 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Matrix: Solid

Job ID: 880-53406-1

Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM

Client Sample ID: S-1 (1') Lab Sample ID: 880-53406-1 Date Collected: 01/17/25 13:15

Date Received: 01/20/25 14:07

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 17:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 17:01	1
Ethylbenzene	0.0103		0.00198		mg/Kg		01/20/25 14:54	01/20/25 17:01	1
m-Xylene & p-Xylene	< 0.00397	U	0.00397		mg/Kg		01/20/25 14:54	01/20/25 17:01	1
o-Xylene	< 0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 17:01	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/20/25 14:54	01/20/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				01/20/25 14:54	01/20/25 17:01	1
1,4-Difluorobenzene (Surr)	92		70 - 130				01/20/25 14:54	01/20/25 17:01	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0103		0.00397		mg/Kg			01/20/25 17:01	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8		mg/Kg		01/20/25 15:12	01/21/25 19:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/21/25 19:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/21/25 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/20/25 15:12	01/21/25 19:52	1
o-Terphenyl	70		70 - 130				01/20/25 15:12	01/21/25 19:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	526		10.0		mg/Kg			01/21/25 17:45	1

Client Sample ID: S-1 (4.1') Lab Sample ID: 880-53406-2 Date Collected: 01/17/25 13:30 **Matrix: Solid**

Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 17:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 17:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 17:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/20/25 14:54	01/20/25 17:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 17:21	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/20/25 14:54	01/20/25 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				01/20/25 14:54	01/20/25 17:21	1

Job ID: 880-53406-1 SDG: Lea Co, NM

Client: Crain Environmental Project/Site: Lamunyon 23

Client Sample ID: S-1 (4.1') Lab Sample ID: 880-53406-2

Matrix: Solid

Date Collected: 01/17/25 13:30 Date Received: 01/20/25 14:07 Sample Depth: 4.1'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4.4.D:#		70 400	04/00/05 44/54	04/00/05 47:04	

1,4-Dilluoroberizerie (Surr)	94	70 - 730	01/20/25 14.54 01/20/25 17.21	ı
-				
Mothod: TAL SOR Total RTEY Total	RTEV Calculation	an .		

Method: IAL SOP Total BTEX	- Total BTEX Calculati	ion					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404 U	0.00404	mg/Kg			01/20/25 17:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
	Analyte	Result Qualit	fier RL	MDL U	Jnit D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9 U	49.9	n	mg/Kg		01/21/25 20:36	1

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 15:12	01/21/25 20:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/25 15:12	01/21/25 20:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/25 15:12	01/21/25 20:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Δnalvto	Result Qualifier	RI	MDI Unit	ו ח	Propared	Analyzod	Dil Fac
Method: EPA 300.0 - Anions, I	on Chromatography -	Soluble					
o-Terphenyl	67 S1-	70 - 130		01/	/20/25 15:12	01/21/25 20:36	1
1-Chlorooctane	68 S1-	70 - 130		01/	/20/25 15:12	01/21/25 20:36	1

Chloride	2230	50.1	mg/Kg		01/21/25 18:08	5
Client Sample ID: S-2 (1')				Lab Sample	ID: 880-534	06-3

Date Collected: 01/17/25 13:35 Date Received: 01/20/25 14:07

Released to Imaging: 5/14/2025 10:45:18 AM

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/20/25 14:54	01/20/25 17:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/20/25 14:54	01/20/25 17:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/20/25 14:54	01/20/25 17:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/20/25 14:54	01/20/25 17:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/20/25 14:54	01/20/25 17:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/20/25 14:54	01/20/25 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/20/25 14:54	01/20/25 17:42	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/20/25 14:54	01/20/25 17:42	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg		-	01/20/25 17:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier **MDL** Unit **Prepared** Analyzed Dil Fac Total TPH <49.8 U 49.8 01/21/25 20:52 mg/Kg

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Matrix: Solid

Job ID: 880-53406-1 SDG: Lea Co, NM

Client Sample ID: S-2 (1')

Client: Crain Environmental

Project/Site: Lamunyon 23

Date Collected: 01/17/25 13:35 Date Received: 01/20/25 14:07

Sample Depth: 1'

Lab	Samp	le ID	: 880)-53	406-3	3

Lab Sample ID: 880-53406-4

Matrix: Solid

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 15:12	01/21/25 20:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/21/25 20:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/21/25 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130				01/20/25 15:12	01/21/25 20:52	1
o-Terphenyl	60	S1-	70 - 130				01/20/25 15:12	01/21/25 20:52	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	- Soluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	311		10.1		mg/Kg			01/21/25 18:15	1

Client Sample ID: S-2 (4.1')

Date Collected: 01/17/25 13:50 Date Received: 01/20/25 14:07

Sample Depth: 4.1'

o-Terphenyl

Released to Imaging: 5/14/2025 10:45:18 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 18:03	1
Toluene	< 0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 18:03	1
Ethylbenzene	< 0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 18:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/20/25 14:54	01/20/25 18:03	1
o-Xylene	< 0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 18:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/20/25 14:54	01/20/25 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				01/20/25 14:54	01/20/25 18:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/20/25 14:54	01/20/25 18:03	1
: Method: SW846 8015 NM - Die	esel Range (Organics (DRO) (GC)						
Analyte		Organics (Qualifier	RL	MADI	11:4				
Analyto				IVII) I		D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	MDL	mg/Kg	D	Prepared	Analyzed 01/21/25 21:06	Dil Fac
Total TPH Method: SW846 8015B NM - D Analyte	Diesel Range	U	49.9			<u>D</u> 	Prepared Prepared		
Method: SW846 8015B NM - DANIEL Gasoline Range Organics	Diesel Range	Organics Qualifier	49.9 (DRO) (GC)		mg/Kg	_ =	Prepared	01/21/25 21:06	1
: Method: SW846 8015B NM - D	Diesel Range Result	Organics Qualifier	49.9 (DRO) (GC) RL		mg/Kg	_ =	Prepared 01/20/25 15:12	01/21/25 21:06 Analyzed	1 Dil Fac
Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Diesel Range Result <49.9	Organics Qualifier U	49.9 (DRO) (GC) RL 49.9		mg/Kg Unit mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12	01/21/25 21:06 Analyzed 01/21/25 21:06	1 Dil Fac
Method: SW846 8015B NM - DANIEL Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Diesel Range Result <49.9	Organics Qualifier U	49.9 (DRO) (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12	01/21/25 21:06 Analyzed 01/21/25 21:06 01/21/25 21:06	1 Dil Fac 1

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01/20/25 15:12 01/21/25 21:06

70 - 130

65 S1-

Matrix: Solid

Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM

Client Sample ID: S-2 (4.1') Lab Sample ID: 880-53406-4 Date Collected: 01/17/25 13:50

Matrix: Solid

Date Received: 01/20/25 14:07 Sample Depth: 4.1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	310		9.96		mg/Kg			01/21/25 18:23	1

Client Sample ID: S-3 (1') Lab Sample ID: 880-53406-5

Date Collected: 01/17/25 13:55 Matrix: Solid

Date Received: 01/20/25 14:07

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 18:23	
Toluene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 18:23	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 18:23	
m-Xylene & p-Xylene	< 0.00396	U	0.00396		mg/Kg		01/20/25 14:54	01/20/25 18:23	
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 18:23	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/20/25 14:54	01/20/25 18:23	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		70 - 130				01/20/25 14:54	01/20/25 18:23	
1,4-Difluorobenzene (Surr)	99		70 - 130				01/20/25 14:54	01/20/25 18:23	
Method: TAL SOP Total BTEX	. Total BTE	X Calculat	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/20/25 18:23	
	_	•				_			
Method: SW846 8015 NM - Die	_	•		MDI	Unit	р	Prenared	Analyzed	Dil Fa
Analyte Total TPH	_	Qualifier	RL 50.0	MDL	Unit mg/Kg	D	Prepared	Analyzed 01/21/25 21:21	
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result	Qualifier U	RL 50.0	MDL		<u>D</u>	Prepared		
Analyte	Result <50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH ** Method: SW846 8015B NM - E	Result <50.0	Qualifier U Organics Qualifier	RL 50.0 (DRO) (GC)		mg/Kg			01/21/25 21:21 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Diesel Range Result	Qualifier U Organics Qualifier U	50.0 (GC) RL		mg/Kg Unit		Prepared	01/21/25 21:21 Analyzed 01/21/25 21:21	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 Diesel Range Result <50.0	Qualifier U Organics Qualifier U	RL 50.0 (GC) RL 50.0		mg/Kg Unit mg/Kg		Prepared 01/20/25 15:12	01/21/25 21:21 Analyzed 01/21/25 21:21 01/21/25 21:21	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 Ciesel Range Result <50.0 <50.0	Qualifier U Organics Qualifier U U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:12 01/20/25 15:12	01/21/25 21:21 Analyzed 01/21/25 21:21 01/21/25 21:21	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Description of the state o	Result <50.0	Qualifier U Organics Qualifier U U	FRL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12	Analyzed 01/21/25 21:21 Analyzed 01/21/25 21:21 01/21/25 21:21 01/21/25 21:21 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U Organics Qualifier U U Qualifier	FRL 50.0 (GC) RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12 Prepared 01/20/25 15:12	Analyzed 01/21/25 21:21 Analyzed 01/21/25 21:21 01/21/25 21:21 01/21/25 21:21 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U Organics Qualifier U U U Qualifier S1- S1-	FRL 50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12 Prepared 01/20/25 15:12	Analyzed 01/21/25 21:21 Analyzed 01/21/25 21:21 01/21/25 21:21 Analyzed 01/21/25 21:21	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U Organics Qualifier U U U Qualifier S1- S1-	FRL 50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12 Prepared 01/20/25 15:12	Analyzed 01/21/25 21:21 Analyzed 01/21/25 21:21 01/21/25 21:21 Analyzed 01/21/25 21:21	Dil Fa

Matrix: Solid

Lab Sample ID: 880-53406-6

Client: Crain Environmental

Project/Site: Lamunyon 23

Job ID: 880-53406-1

SDG: Lea Co, NM

Client Sample ID: S-3 (4.1')

Date Collected: 01/17/25 14:10 Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 18:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 18:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 18:43	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/20/25 14:54	01/20/25 18:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:54	01/20/25 18:43	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/20/25 14:54	01/20/25 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				01/20/25 14:54	01/20/25 18:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130				01/20/25 14:54	01/20/25 18:43	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/20/25 18:43	1
Method: SW846 8015 NM - Dies	sel Range (Organics (DRO) (GC)						

Analyte	Result Quali	ifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg	 _		01/21/25 21:35	1
_							

Method: SW846 8015B NM - D	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 15:12	01/21/25 21:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:12	01/21/25 21:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:12	01/21/25 21:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Method: EPA 300.0 - Anions.	Ion Chromatography	- Soluble		
o-Terphenyl	68 S1-	70 - 130	01/20/25 15:12 01/21/25 21:35	1
1-Chlorooctane	69 S1-	70 - 130	01/20/25 15:12 01/21/25 21:35	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.0	9.96	mg/Kg			01/21/25 18:37	1

Client Sample ID: S-4 (1')

Date Collected: 01/17/25 14:15

Lab Sample ID: 880-53406-7

Matrix: Solid

Sample Depth: 1'

Date Received: 01/20/25 14:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 19:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 19:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 19:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/20/25 14:54	01/20/25 19:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:54	01/20/25 19:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/20/25 14:54	01/20/25 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/20/25 14:54	01/20/25 19:04	1

Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM

Client Sample ID: S-4 (1') Lab Sample ID: 880-53406-7

Date Collected: 01/17/25 14:15 **Matrix: Solid** Date Received: 01/20/25 14:07

Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Co	ompounds (GC)	(Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	94	70 - 130	$01/20/25 \ 14.54 \ 01/20/25 \ 19.04$	

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			01/20/25 19:04	1

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

Analyte	Result	Qualifier	RL		Jnit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	11	ng/Kg			01/21/25 21:50	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	49.7		mg/Kg		01/20/25 15:12	01/21/25 21:50	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 15:12	01/21/25 21:50	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 15:12	01/21/25 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	01/20/25 15:12	01/21/25 21:50	1
o-Terphenyl	63	S1-	70 - 130	01/20/25 15:12	01/21/25 21:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Chloride	1290	F1	50.4		mg/Kg				01/22/25 17:01	5

Client Sample ID: S-4 (4.1')

Date Collected: 01/17/25 14:30 Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Mothod: CIMOAC 9024D	Volatila Organia Compounde (C)	\sim

WELLIOU. SWO40 OUZ ID - VO	name Organic	Compoun	us (GC)						
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	r	mg/Kg		01/20/25 14:54	01/20/25 19:24	1
Toluene	<0.00200	U	0.00200	r	mg/Kg		01/20/25 14:54	01/20/25 19:24	1
Ethylbenzene	<0.00200	U	0.00200	r	mg/Kg		01/20/25 14:54	01/20/25 19:24	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	r	mg/Kg		01/20/25 14:54	01/20/25 19:24	1
o-Xylene	<0.00200	U	0.00200	r	mg/Kg		01/20/25 14:54	01/20/25 19:24	1
Xylenes, Total	<0.00399	U	0.00399	r	mg/Kg		01/20/25 14:54	01/20/25 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				01/20/25 14:54	01/20/25 19:24	1
1.4-Difluorobenzene (Surr)	99		70 - 130				01/20/25 14:54	01/20/25 19:24	1

Mathad, TAI	SOP Total RTFX.	Total DTEV	Calaulatian
I METHON' IAI	SUP INIXI BIEK.	. IOIXI BIEK	Caicinanon

Released to Imaging: 5/14/2025 10:45:18 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/20/25 19:24	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			01/21/25 22:04	1

Eurofins Midland

Lab Sample ID: 880-53406-8

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-53406-8

Lab Sample ID: 880-53406-9

Client: Crain Environmental

Project/Site: Lamunyon 23

Job ID: 880-53406-1

SDG: Lea Co, NM

Client Sample ID: S-4 (4.1')

Date Collected: 01/17/25 14:30 Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	_	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 15:12	01/21/25 22:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/21/25 22:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/21/25 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				01/20/25 15:12	01/21/25 22:04	1
o-Terphenyl	70		70 - 130				01/20/25 15:12	01/21/25 22:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1140		50.4		mg/Kg			01/22/25 17:19	5

Client Sample ID: S-5 (1')

Date Collected: 01/17/25 14:35

Date Received: 01/20/25 14:07

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/20/25 14:54	01/20/25 19:45	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:54	01/20/25 19:45	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:54	01/20/25 19:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/20/25 14:54	01/20/25 19:45	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:54	01/20/25 19:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/20/25 14:54	01/20/25 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				01/20/25 14:54	01/20/25 19:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/20/25 14:54	01/20/25 19:45	1
Analyte Total BTEX Method: SW846 8015 NM - Did	<0.00398		0.00398 DRO) (GC)		mg/Kg		Prepared	Analyzed 01/20/25 19:45	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.9			MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/21/25 22:20	Dil Fac
Total TPH	<49.9	U	RL 49.9	MDL		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - D	<49.9	U	RL 49.9	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	<49.9	Organics Qualifier	RL 49.9 (DRO) (GC)		mg/Kg			01/21/25 22:20	1
Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 Diesel Range Result	Organics Qualifier	RL 49.9 (DRO) (GC) RL		mg/Kg Unit		Prepared 01/20/25 15:12	01/21/25 22:20 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 Diesel Range Result <49.9	Organics Qualifier U	RL 49.9 (DRO) (GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared 01/20/25 15:12 01/20/25 15:12	01/21/25 22:20 Analyzed 01/21/25 22:20	Dil Fac
	<49.9 Diesel Range Result <49.9 <49.9	Organics Qualifier U	RL 49.9 (DRO) (GC) RL 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:12 01/20/25 15:12	01/21/25 22:20 Analyzed 01/21/25 22:20 01/21/25 22:20	1 Dil Fac 1
Method: SW846 8015B NM - DANAINTE Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.9 Diesel Range Result <49.9 <49.9 <49.9	Organics Qualifier U	RL 49.9 (DRO) (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12	Analyzed 01/21/25 22:20 Analyzed 01/21/25 22:20 01/21/25 22:20 01/21/25 22:20 Analyzed	1 Dil Fac 1 1

Eurofins Midland

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SDG: Lea Co, NM

Client: Crain Environmental Project/Site: Lamunyon 23

Date Received: 01/20/25 14:07

Client Sample ID: S-5 (1') Lab Sample ID: 880-53406-9 Date Collected: 01/17/25 14:35

Matrix: Solid

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	51.1		10.1		mg/Kg			01/22/25 17:24	1

Client Sample ID: S-5 (4.1') Lab Sample ID: 880-53406-10 Date Collected: 01/17/25 14:50

Matrix: Solid

Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		01/20/25 14:49	01/20/25 17:06	
Toluene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:49	01/20/25 17:06	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:49	01/20/25 17:06	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/20/25 14:49	01/20/25 17:06	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:49	01/20/25 17:06	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/20/25 14:49	01/20/25 17:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	111		70 - 130				01/20/25 14:49	01/20/25 17:06	
1,4-Difluorobenzene (Surr)	103		70 - 130				01/20/25 14:49	01/20/25 17:06	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/25 17:06	
Method: SW846 8015 NM - Di	esel Range (Organics (DRO) (GC)						
	_	Organics (Qualifier	DRO) (GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Method: SW846 8015 NM - Di Analyte Total TPH	_	Qualifier		MDL		<u>D</u>	Prepared	Analyzed 01/21/25 22:34	Dil F
Analyte	Result	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared		Dil F
Analyte Total TPH	Result	Qualifier U	RL 50.0	MDL		_ <u>D</u>	Prepared		Dil F
Analyte Total TPH Method: SW846 8015B NM - [Result <50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics	Result <50.0	Qualifier U Organics Qualifier	RL 50.0 (DRO) (GC)		mg/Kg	_ =	Prepared	01/21/25 22:34	
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U Organics Qualifier U	50.0 (DRO) (GC) RL		mg/Kg Unit	_ =	Prepared 01/20/25 15:12	01/21/25 22:34 Analyzed	
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 Diesel Range Result <50.0	Qualifier U Organics Qualifier U	RL 50.0 (GC) RL 50.0		mg/Kg Unit mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12	01/21/25 22:34 Analyzed 01/21/25 22:34	
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.0 Diesel Range Result <50.0 <50.0	Qualifier U Organics Qualifier U U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12	01/21/25 22:34 Analyzed 01/21/25 22:34 01/21/25 22:34	Dil F
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U Organics Qualifier U U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12 Prepared	Analyzed 01/21/25 22:34 01/21/25 22:34 01/21/25 22:34 01/21/25 22:34	Dil F
Analyte Total TPH Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U Organics Qualifier U U	RL 50.0 (DRO) (GC) RL 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12 Prepared 01/20/25 15:12	Analyzed 01/21/25 22:34 Analyzed 01/21/25 22:34 01/21/25 22:34 Analyzed	Dil F
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U Organics Qualifier U U U Qualifier	RL 50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12 Prepared 01/20/25 15:12	Analyzed 01/21/25 22:34 Analyzed 01/21/25 22:34 01/21/25 22:34 Analyzed 01/21/25 22:34	Dil F
Analyte	Result <50.0	Qualifier U Organics Qualifier U U U Qualifier	RL 50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12 Prepared 01/20/25 15:12	Analyzed 01/21/25 22:34 Analyzed 01/21/25 22:34 01/21/25 22:34 Analyzed 01/21/25 22:34	Dil F

Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM

Client Sample ID: S-6 (1') Lab Sample ID: 880-53406-11

Date Collected: 01/17/25 14:55 Matrix: Solid Date Received: 01/20/25 14:07

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:49	01/20/25 17:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:49	01/20/25 17:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:49	01/20/25 17:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/20/25 14:49	01/20/25 17:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:49	01/20/25 17:26	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/20/25 14:49	01/20/25 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/20/25 14:49	01/20/25 17:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/20/25 14:49	01/20/25 17:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/20/25 17:26	1
Г									

Welliou. 344046 outs MW - Die	sei Kaliye (Jiganics (L	JRU) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/21/25 23:03	1

Method: SW846 8015B NM - D	iesel 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 15:12	01/21/25 23:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/25 15:12	01/21/25 23:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/25 15:12	01/21/25 23:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

	Surrogate	%Recovery	Quaimer	Limits	Prepared	Analyzea	DII Fac
	1-Chlorooctane	69	S1-	70 - 130	01/20/25 15:12	01/21/25 23:03	1
	o-Terphenyl	69	S1-	70 - 130	01/20/25 15:12	01/21/25 23:03	1
ľ							

Wethou: EPA 300.0 - Anions, i	on Chromat	ograpny - 🔻	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7500		99.2		mg/Kg			01/22/25 17:36	10

Client Sample ID: S-6 (4.1') Lab Sample ID: 880-53406-12 Date Collected: 01/17/25 15:10 **Matrix: Solid**

Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 17:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 17:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 17:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/20/25 14:49	01/20/25 17:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 17:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/20/25 14:49	01/20/25 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/20/25 14:49	01/20/25 17:47	1

Matrix: Solid

Lab Sample ID: 880-53406-12

Client: Crain Environmental Job ID: 880-53406-1 Project/Site: Lamunyon 23 SDG: Lea Co, NM

Client Sample ID: S-6 (4.1')

Date Collected: 01/17/25 15:10 Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Method: SW846 8021B	- Volatile Organic Compo	unds (GC) (Continued)
Michiga. Offord duz ID	- Volatile Organic Compo	unus (00) (00mmucu)

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	102		70 - 130	01/20/25 14:49 01/20/25 17:47	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			01/20/25 17:47	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	ma/Ka			01/21/25 23:19	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	49.8		mg/Kg		01/20/25 15:12	01/21/25 23:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/21/25 23:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/21/25 23:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130	01/20/25 15:12	01/21/25 23:19	1
o-Terphenyl	62	S1-	70 - 130	01/20/25 15:12	01/21/25 23:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Chloride	28.7		9.92		mg/Kg				01/22/25 17:54	1

Client Sample ID: S-7 (1')

Date Collected: 01/17/25 15:15

Date Received: 01/20/25 14:07

Sample Depth: 1'

Mothod: CIMOAC 9024D	Volatile Organia	c Compounds	(CC)

mothodi Otto-to coz ib	Jiatilo Olgaillo	Compount	uo (00)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 18:07	1
Toluene	< 0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 18:07	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 18:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/20/25 14:49	01/20/25 18:07	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 18:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/20/25 14:49	01/20/25 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/20/25 14:49	01/20/25 18:07	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/20/25 14:49	01/20/25 18:07	1

l Method: TΔI	SOP Total BTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	m	g/Kg			01/20/25 18:07	1

Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 L		49.9	mg/Kg			01/21/25 23:33	1

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Lab Sample ID: 880-53406-13

Matrix: Solid

Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM

Client Sample ID: S-7 (1')

Lab Sample ID: 880-53406-13 Date Collected: 01/17/25 15:15 **Matrix: Solid** Date Received: 01/20/25 14:07

Sample Depth: 1'

Method: SW846 8015B NM - I Analyte	_	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 15:12	01/21/25 23:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:12	01/21/25 23:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:12	01/21/25 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				01/20/25 15:12	01/21/25 23:33	1
o-Terphenyl	64	S1-	70 - 130				01/20/25 15:12	01/21/25 23:33	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble						
Method: EPA 300.0 - Anions, Analyte		tography - Qualifier	Soluble RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-7 (4.1') Lab Sample ID: 880-53406-14 Date Collected: 01/17/25 15:30 **Matrix: Solid**

Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/20/25 14:49	01/20/25 18:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/20/25 14:49	01/20/25 18:28	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:49	01/20/25 18:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/20/25 14:49	01/20/25 18:28	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:49	01/20/25 18:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/20/25 14:49	01/20/25 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				01/20/25 14:49	01/20/25 18:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/20/25 14:49	01/20/25 18:28	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/20/25 18:28	1
Method: SW846 8015 NM - Die	sal Ranga (O							
	Joei Italige	organics (DRO) (GC)						
Analyte	_	Organics (Qualifier	DRO) (GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	_	Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/21/25 23:48	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		
Analyte	Result <49.9	Qualifier U	RL 49.9			<u>D</u> D	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	Result <49.9	Qualifier U Organics Qualifier	RL 49.9 (DRO) (GC)		mg/Kg	_ =		01/21/25 23:48 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 Diesel Range Result	Qualifier U Organics Qualifier U	49.9 (DRO) (GC) RL		mg/Kg Unit	_ =	Prepared	01/21/25 23:48 Analyzed 01/21/25 23:48	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 Diesel Range Result <49.9	Qualifier U Organics Qualifier U	RL 49.9 (GC) RL 49.9		mg/Kg Unit mg/Kg	_ =	Prepared 01/20/25 15:12	01/21/25 23:48 Analyzed 01/21/25 23:48 01/21/25 23:48	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U Organics Qualifier U U	RL 49.9 (DRO) (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12	01/21/25 23:48 Analyzed 01/21/25 23:48 01/21/25 23:48	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - D	Result	Qualifier U Organics Qualifier U U Qualifier	RL 49.9 (DRO) (GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12 Prepared	01/21/25 23:48 Analyzed 01/21/25 23:48 01/21/25 23:48 01/21/25 23:48	1 Dil Fac 1

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Released to Imaging: 5/14/2025 10:45:18 AM

Job ID: 880-53406-1 SDG: Lea Co, NM

Client: Crain Environmental Project/Site: Lamunyon 23

Lab Sample ID: 880-53406-14

Date Collected: 01/17/25 15:30 Date Received: 01/20/25 14:07

Client Sample ID: S-7 (4.1')

Matrix: Solid

Sample Depth: 4.1'

Method: EPA 300.0 - Anions, lo	n Chromat	tography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		9.96		mg/Kg			01/22/25 18:06	1

Client Sample ID: S-8 (1') Lab Sample ID: 880-53406-15

Date Collected: 01/17/25 15:35 Date Received: 01/20/25 14:07

Matrix: Solid

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/20/25 14:49	01/20/25 18:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/20/25 14:49	01/20/25 18:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/20/25 14:49	01/20/25 18:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/20/25 14:49	01/20/25 18:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/20/25 14:49	01/20/25 18:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/20/25 14:49	01/20/25 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				01/20/25 14:49	01/20/25 18:48	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/20/25 14:49	01/20/25 18:48	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/20/25 18:48	

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 00:03	1
Method: SW846 8015B NM - Diese Analyte	•	Organics (DRO	O) (GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/22/25 00:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/22/25 00:03	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/22/25 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				01/20/25 15:12	01/22/25 00:03	1
o-Terphenyl	78		70 - 130				01/20/25 15:12	01/22/25 00:03	1
-									

Method: EPA 300.0 - Anions, I	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		9.94		mg/Kg			01/22/25 18:12	1

Job ID: 880-53406-1 SDG: Lea Co, NM

Client: Crain Environmental Project/Site: Lamunyon 23

<49.9 U

63 S1-

Lab Sample ID: 880-53406-16

01/22/25 00:18

01/20/25 15:12 01/22/25 00:18

Matrix: Solid

Date Collected: 01/17/25 15:50 Date Received: 01/20/25 14:07

Client Sample ID: S-8 (4.1')

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:49	01/20/25 19:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:49	01/20/25 19:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:49	01/20/25 19:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/20/25 14:49	01/20/25 19:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/20/25 14:49	01/20/25 19:09	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/20/25 14:49	01/20/25 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/20/25 14:49	01/20/25 19:09	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/20/25 14:49	01/20/25 19:09	1
Method: TAL SOP Total BT	EX - Total BTE.	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/20/25 19:09	1
Method: SW846 8015 NM -	Diesel Range (Organics (DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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 15:12	01/22/25 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:12	01/22/25 00:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:12	01/22/25 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				01/20/25 15:12	01/22/25 00:18	1

49.9

mg/Kg

Method: EPA 300.0 - Anions, le	on Chromato	graphy -	Soluble						
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.0		10.0		mg/Kg			01/22/25 18:18	1

70 - 130

Client Sample ID: S-9 (1') Lab Sample ID: 880-53406-17 Date Collected: 01/17/25 15:55 **Matrix: Solid**

Date Received: 01/20/25 14:07

Sample Depth: 1'

Total TPH

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:49	01/20/25 19:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:49	01/20/25 19:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:49	01/20/25 19:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/20/25 14:49	01/20/25 19:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:49	01/20/25 19:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/20/25 14:49	01/20/25 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/20/25 14:49	01/20/25 19:29	1

Project/Site: Lamunyon 23

Client: Crain Environmental SDG: Lea Co, NM

Client Sample ID: S-9 (1') Lab Sample ID: 880-53406-17 Date Collected: 01/17/25 15:55

Matrix: Solid

Date Received: 01/20/25 14:07

Sample Depth: 1'

Surrogate	%Recovery Qualifier	Limits	Prepared Analyze	d Dil Fac
1,4-Difluorobenzene (Surr)	102	70 - 130	01/20/25 14:49 01/20/25 19):29 1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg	_		01/20/25 19:29	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			01/22/25 00:32	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 15:12	01/22/25 00:32	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 15:12	01/22/25 00:32	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 15:12	01/22/25 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	01/20/25 15:12	01/22/25 00:32	1
o-Terphenyl	72		70 - 130	01/20/25 15:12	01/22/25 00:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3020	F1	50.2		mg/Kg			01/22/25 18:24	5

Client Sample ID: S-9 (4.1')

Date Collected: 01/17/25 16:10 Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Mothod: CMQ46 0021D	Volatile Organie	Compounds (CC)

INICITION. SYVOTO OUZ ID - VO	Jame Organic	Compoun	us (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 19:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 19:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 19:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/20/25 14:49	01/20/25 19:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/20/25 14:49	01/20/25 19:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/20/25 14:49	01/20/25 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/20/25 14:49	01/20/25 19:50	1
1 4-Difluorobenzene (Surr)	101		70 - 130				01/20/25 14:49	01/20/25 19:50	1

Mothod: TAL	SOP Total BTFX -	Total DTEV	Calculation
i weinon iai .	SUP IOIAL BIEK -	· IOIAL BIEK	Calculation

Released to Imaging: 5/14/2025 10:45:18 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/20/25 19:50	1

Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 l	U	50.0	mg/Kg			01/22/25 00:46	1

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-53406-18

Job ID: 880-53406-1 SDG: Lea Co, NM

Client: Crain Environmental Project/Site: Lamunyon 23 Client Sample ID: S-9 (4.1')

Lab Sample ID: 880-53406-18

Date Collected: 01/17/25 16:10 Date Received: 01/20/25 14:07 **Matrix: Solid**

Sample Depth: 4.1'

Method: SW846 8015B NM - I	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 15:12	01/22/25 00:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:12	01/22/25 00:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:12	01/22/25 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/20/25 15:12	01/22/25 00:46	1
o-Terphenyl	68	S1-	70 - 130				01/20/25 15:12	01/22/25 00:46	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5410		100		mg/Kg			01/22/25 18:41	10

Lab Sample ID: 880-53406-19 Client Sample ID: S-10 (1')

Date Collected: 01/17/25 16:15 Date Received: 01/20/25 14:07

Matrix: Solid

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:50	01/20/25 18:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:50	01/20/25 18:40	1
Ethylbenzene	< 0.00202	U	0.00202		mg/Kg		01/20/25 14:50	01/20/25 18:40	1
m-Xylene & p-Xylene	< 0.00403	U	0.00403		mg/Kg		01/20/25 14:50	01/20/25 18:40	1
o-Xylene	< 0.00202	U	0.00202		mg/Kg		01/20/25 14:50	01/20/25 18:40	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/20/25 14:50	01/20/25 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/20/25 14:50	01/20/25 18:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130				01/20/25 14:50	01/20/25 18:40	1
Analyte Total BTEX	<0.00403	Qualifier U	0.00403	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 01/20/25 18:40	Dil Fac
Total BTEX Method: SW846 8015 NM - Die					mg/Kg			01/20/25 18:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.8			MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/22/25 01:02	Dil Fac
	<49.8	U	49.8	MDL		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - D	<49.8	U	49.8			<u>D</u> D	Prepared Prepared		
Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	<49.8	Organics Qualifier	RL 49.8 (DRO) (GC)		mg/Kg	_ =	<u> </u>	01/22/25 01:02	1
Total TPH	<49.8 Diesel Range Result	Organics Qualifier	RL 49.8 (DRO) (GC) RL		mg/Kg Unit	_ =	Prepared 01/20/25 15:12	01/22/25 01:02 Analyzed	1 Dil Fac
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 Diesel Range Result <49.8	Organics Qualifier U	RL 49.8 (DRO) (GC) RL 49.8		mg/Kg Unit mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12	01/22/25 01:02 Analyzed 01/22/25 01:02	Dil Fac
Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<49.8 Diesel Range Result <49.8 <49.8	Organics Qualifier U	RL 49.8 (DRO) (GC) RL 49.8		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12	Analyzed 01/22/25 01:02 01/22/25 01:02 01/22/25 01:02	1 Dil Fac 1
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8 Diesel Range Result <49.8 <49.8 <49.8	Organics Qualifier U	RL 49.8 (DRO) (GC) RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 01/20/25 15:12 01/20/25 15:12 01/20/25 15:12	Analyzed 01/22/25 01:02 01/22/25 01:02 01/22/25 01:02 01/22/25 01:02	1 Dil Fac 1 1

Client: Crain Environmental

Project/Site: Lamunyon 23

Job ID: 880-53406-1

SDG: Lea Co, NM

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-53406-19

Lab Sample ID: 880-53406-20

Client Sample ID: S-10 (1')

Date Collected: 01/17/25 16:15 Date Received: 01/20/25 14:07

Sample Depth: 1'

	Method: EPA 300.0 - Anions, lo	on Chromat	ography -	Soluble						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Chloride	3120		50.5		mg/Kg			01/22/25 18:47	5

Client Sample ID: S-10 (4.1')

Date Collected: 01/17/25 16:30 Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:50	01/20/25 19:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:50	01/20/25 19:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:50	01/20/25 19:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/20/25 14:50	01/20/25 19:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/20/25 14:50	01/20/25 19:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/20/25 14:50	01/20/25 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				01/20/25 14:50	01/20/25 19:01	1
1,4-Difluorobenzene (Surr)	86		70 - 130				01/20/25 14:50	01/20/25 19:01	1

		r - u. u. u. u.							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/20/25 19:01	1
_									

Method: SW846 8015 NM - Diese	l Range (Organics (D	(GC) (GC)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/22/25 01:15	1

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 15:12	01/22/25 01:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/22/25 01:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:12	01/22/25 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				01/20/25 15:12	01/22/25 01:15	1
o-Terphenyl	67	S1-	70 - 130				01/20/25 15:12	01/22/25 01:15	1

Method: EPA 300.0 - Anions, Ioi	n Chromat	tography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240		10.1		mg/Kg			01/22/25 19:05	1

Matrix: Solid

Lab Sample ID: 880-53406-21

Client: Crain Environmental

Project/Site: Lamunyon 23

Job ID: 880-53406-1

SDG: Lea Co, NM

Client Sample ID: S-11 (1')

Date Collected: 01/17/25 16:35 Date Received: 01/20/25 14:07

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/20/25 14:50	01/20/25 19:21	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:50	01/20/25 19:21	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:50	01/20/25 19:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/20/25 14:50	01/20/25 19:21	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/20/25 14:50	01/20/25 19:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/20/25 14:50	01/20/25 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				01/20/25 14:50	01/20/25 19:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/20/25 14:50	01/20/25 19:21	1

Analyte		Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/20/25 19:21	1
_								

Method. Syvo46 outs MW - Die	sei Kange (Jiganiics (L	JRO) (GC)						
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	m	ng/Kg			01/22/25 18:16	1

Method: SW846 8015B NM - D Analyte	_	Organics Qualifier	(DRO) (GC) RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7		49.7		mg/Kg	_ =		01/22/25 18:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 15:15	01/22/25 18:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 15:15	01/22/25 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/20/25 15:15	01/22/25 18:16	

Method: EPA 300.0 - Anions, Ion Cl	nromatogra	aphy - Soluble		
o-Terphenyl	71	70 - 130	01/20/25 15:15 01/22/25 18:16	1
1-Oniorocciane	75	10 - 130	01/20/20 10:10 01/22/20 10:10	,

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	304	9.92	mg/Kg			01/22/25 19:11	1

Client Sample ID: S-11 (4.1')

Date Collected: 01/17/25 16:50

Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/20/25 14:50	01/20/25 19:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/20/25 14:50	01/20/25 19:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/20/25 14:50	01/20/25 19:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/20/25 14:50	01/20/25 19:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/20/25 14:50	01/20/25 19:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/20/25 14:50	01/20/25 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				01/20/25 14:50	01/20/25 19:41	1

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-53406-22

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Job ID: 880-53406-1 SDG: Lea Co, NM

Matrix: Solid

Lab Sample ID: 880-53406-22

Client: Crain Environmental Project/Site: Lamunyon 23

Client Sample ID: S-11 (4.1')

Date Collected: 01/17/25 16:50 Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Method: SW846 8021B	- Volatile Organic Compo	unds (GC) (Continued)
Michiga. Offord duz ID	- Volatile Organic Compo	unus (00) (00mmucu)

Surrogate	%Recovery Qualific	er Limits	Prepared Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	99	70 - 130	01/20/25 14:50 01/20/25 19:41	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/20/25 19:41	1

Analyte	Result Qualifie	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			01/22/25 19:00	1

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

		. 9	, (,						
Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9 U	<u> </u>	49.9		mg/Kg		01/20/25 15:15	01/22/25 19:00	1
Diesel Range Organics (Over C10-C28)	<49.9 U		49.9		mg/Kg		01/20/25 15:15	01/22/25 19:00	1
Oil Range Organics (Over C28-C36)	<49.9 U	ı	49.9		mg/Kg		01/20/25 15:15	01/22/25 19:00	1
	0/5		,						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	01/20/25 15:15	01/22/25 19:00	1
o-Terphenyl	68	S1-	70 - 130	01/20/25 15:15	01/22/25 19:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Quali	tier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2770	49.9	mg/Kg			01/22/25 19:17	5

Client Sample ID: S-12 (1')

Date Collected: 01/17/25 15:55 Date Received: 01/20/25 14:07

Sample Depth: 1'

Mothod: CIMOAC 9021D	Volatila	Organic	Compounds	(CC)

Motilogi Cito-to CC2 iB	Jiatilo Olgaillo	Compount	40 (00)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/20/25 14:50	01/20/25 20:02	1
Toluene	< 0.00201	U	0.00201		mg/Kg		01/20/25 14:50	01/20/25 20:02	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		01/20/25 14:50	01/20/25 20:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/20/25 14:50	01/20/25 20:02	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		01/20/25 14:50	01/20/25 20:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/20/25 14:50	01/20/25 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/20/25 14:50	01/20/25 20:02	1
1 A-Diffuorobenzene (Surr)	0.8		70 130				01/20/25 14:50	01/20/25 20:02	1

4-Bromonuoropenzene (Surr)	107	70 - 130	01/20/23 14.30 01/20/23 20.02	ı
1,4-Difluorobenzene (Surr)	98	70 - 130	01/20/25 14:50 01/20/25 20:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

1	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00402	U	0.00402		mg/Kg			01/20/25 20:02	1

Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			01/22/25 19:16	1

Eurofins Midland

Lab Sample ID: 880-53406-23

Matrix: Solid

Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM

Date Received: 01/20/25 14:07

Sample Depth: 1'

Olisest Ossessia ID- 0 40 (41)	Lab 0a ID- 000 50400 00
Client Sample ID: S-12 (1')	Lab Sample ID: 880-53406-23
Date Collected: 01/17/25 15:55	Matrix: Solid

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 19:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 15:15	01/22/25 19:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 15:15	01/22/25 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				01/20/25 15:15	01/22/25 19:16	1
o-Terphenyl	66	S1-	70 - 130				01/20/25 15:15	01/22/25 19:16	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4040		99.8		mg/Kg			01/22/25 19:22	10

Client Sample ID: S-12 (4.1') Lab Sample ID: 880-53406-24 Date Collected: 01/17/25 17:10 **Matrix: Solid**

Date Received: 01/20/25 14:07

Oil Range Organics (Over C28-C36)

Released to Imaging: 5/14/2025 10:45:18 AM

Surrogate

o-Terphenyl

1-Chlorooctane

Sample Depth: 4.1'

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 18:24	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 18:24	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 18:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:46	01/21/25 18:24	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/21/25 08:46	01/21/25 18:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:46	01/21/25 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/21/25 08:46	01/21/25 18:24	1
1,4-Difluorobenzene (Surr)	90		70 - 130				01/21/25 08:46	01/21/25 18:24	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion						
Method: TAL SOP Total BT Analyte		X Calculat Qualifier	tion RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/21/25 18:24	Dil Fac
Analyte Total BTEX	<0.00398	Qualifier U	RL 0.00398	MDL		<u>D</u>	Prepared		Dil Fac
Analyte	Result <0.00398 Diesel Range	Qualifier U	RL 0.00398	MDL MDL	mg/Kg	<u>D</u> D	Prepared Prepared		Dil Fac
Analyte Total BTEX Method: SW846 8015 NM -	Result <0.00398 Diesel Range	Qualifier U Organics (Qualifier	RL 0.00398 DRO) (GC)		mg/Kg	=	· ·	01/21/25 18:24	1
Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH	Result <0.00398	Qualifier U Organics (Qualifier U	RL 0.00398 DRO) (GC) RL 49.9		mg/Kg Unit	=	· ·	01/21/25 18:24 Analyzed	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH Method: SW846 8015B NM	Result <0.00398 Diesel Range Result <49.9 - Diesel Range	Qualifier U Organics (Qualifier U	RL 0.00398 DRO) (GC) RL 49.9		mg/Kg Unit mg/Kg	=	· ·	01/21/25 18:24 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Analyte	Result <0.00398 Diesel Range Result <49.9 - Diesel Range	Qualifier U Organics (Qualifier U Organics Qualifier Qualifier	RL 0.00398 DRO) (GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	01/21/25 18:24 Analyzed 01/22/25 19:30	1 Dil Fac

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01/20/25 15:15 01/22/25 19:30

01/20/25 15:15 01/22/25 19:30

01/20/25 15:15 01/22/25 19:30

Analyzed

Prepared

49.9

Limits

70 - 130

70 - 130

mg/Kg

<49.9 U

%Recovery Qualifier

69 S1-

70

Dil Fac

SDG: Lea Co, NM

Client: Crain Environmental Project/Site: Lamunyon 23

Client Sample ID: S-12 (4.1') Date Collected: 01/17/25 17:10

Lab Sample ID: 880-53406-24

Matrix: Solid

Date Received: 01/20/25 14:07 Sample Depth: 4.1'

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5780		100		mg/Kg			01/22/25 19:28	10

Client Sample ID: S-13 (1') Lab Sample ID: 880-53406-25 Date Collected: 01/17/25 17:15

Matrix: Solid

Sample Depth: 1'

Date Received: 01/20/25 14:07

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/20/25 16:16	01/21/25 00:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/20/25 16:16	01/21/25 00:42	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		01/20/25 16:16	01/21/25 00:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/20/25 16:16	01/21/25 00:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/20/25 16:16	01/21/25 00:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/20/25 16:16	01/21/25 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/20/25 16:16	01/21/25 00:42	1
1,4-Difluorobenzene (Surr)	107		70 - 130				01/20/25 16:16	01/21/25 00:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/21/25 00:42	1
Mothod: SW946 9045 NM	Discal Bangs	Organiae (DBO) (CC)						

Method. 344046 outs MM - Diese	Range	Organics (D	KU) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/22/25 19:46	1
Method: SW846 8015B NM - Dies	sel Rang	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 19:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:15	01/22/25 19:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:15	01/22/25 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				01/20/25 15:15	01/22/25 19:46	1
o-Terphenyl	66	S1-	70 - 130				01/20/25 15:15	01/22/25 19:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	287		9.94		mg/Kg			01/22/25 19:34	1	

Client: Crain Environmental

Project/Site: Lamunyon 23

Job ID: 880-53406-1

SDG: Lea Co, NM

Client Sample ID: S-13 (4.1') Lab Sample ID: 880-53406-26

Date Collected: 01/17/25 17:25 Matrix: Solid
Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/20/25 16:16	01/21/25 01:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/20/25 16:16	01/21/25 01:03	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/20/25 16:16	01/21/25 01:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/20/25 16:16	01/21/25 01:03	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/20/25 16:16	01/21/25 01:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/20/25 16:16	01/21/25 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				01/20/25 16:16	01/21/25 01:03	1
1,4-Difluorobenzene (Surr)	108		70 - 130				01/20/25 16:16	01/21/25 01:03	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/21/25 01:03	1
Method: SW846 8015 NM - Die	esel 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 20:00	
-		J	00.0		mg/rtg			01/22/23 20.00	1
: Method: SW846 8015B NM - [Diesel Range				mg/ng			01/22/23 20.00	1
				MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Organics Qualifier	(DRO) (GC)	MDL		<u>D</u>	Prepared 01/20/25 15:15		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Organics Qualifier	(DRO) (GC)	MDL	Unit	<u>D</u>	01/20/25 15:15	Analyzed 01/22/25 20:00	1 Dil Fac
Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<50.0	Organics Qualifier U	(DRO) (GC) RL 50.0	MDL	Unit mg/Kg	<u> </u>	01/20/25 15:15	Analyzed 01/22/25 20:00 01/22/25 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130	01/20/25 15:15	01/22/25 20:00	1
o-Terphenyl	70		70 - 130	01/20/25 15:15	01/22/25 20:00	1
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Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResult OthorideQualifier QualifierRL HSMDL HSUnit MSD MSPrepared MSAnalyzed MSDil Fac MS

Client Sample ID: S-14 (1')

Date Collected: 01/17/25 17:30

Lab Sample ID: 880-53406-27

Matrix: Solid

Date Received: 01/20/25 14:07

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/21/25 01:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/21/25 01:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/21/25 01:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/20/25 16:16	01/21/25 01:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/21/25 01:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/20/25 16:16	01/21/25 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				01/20/25 16:16	01/21/25 01:23	1

Eurofins Midland

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Released to Imaging: 5/14/2025 10:45:18 AM

Matrix: Solid

Job ID: 880-53406-1

Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM Lab Sample ID: 880-53406-27

Client Sample ID: S-14 (1') Date Collected: 01/17/25 17:30

Date Received: 01/20/25 14:07

Sample Depth: 1'

Method: SW846 8021B - Volatile C	Organic Compounds ((GC) (Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	01/20/25 16:16 01/21/25 01:23	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/21/25 01:23	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/k	(g		01/22/25 20:14	1

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

Analyte	Result	Qualifier	RL	MDL I	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	r	mg/Kg		01/20/25 15:15	01/22/25 20:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	r	mg/Kg		01/20/25 15:15	01/22/25 20:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	ı	mg/Kg		01/20/25 15:15	01/22/25 20:14	1
Surragata	9/ Bassivari	Qualifier	Limita				Droporod	Anglyzod	Dil Ess

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130	01/20/25 15:15	01/22/25 20:14	1
o-Terphenyl	69	S1-	70 - 130	01/20/25 15:15	01/22/25 20:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualit	tier RL	MDL Un		Prepared	Analyzed	Dil Fac
Chloride	71.6	9.96	mg	J/Kg		01/22/25 22:07	1

Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Client Sample ID: S-14 (4.1')	Lab Sample ID: 880-53406-28
Date Collected: 01/17/25 17:40	Matrix: Solid

Mothod: SW846 80	21B - Volatilo	Organic Co	omnounde (G

	Julius Olganis	- opou	ac (
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/21/25 01:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/21/25 01:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/21/25 01:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/20/25 16:16	01/21/25 01:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/21/25 01:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/20/25 16:16	01/21/25 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4 Dramafluarahanzana (Curr)			70 120				04/00/05 46:46	01/01/05 01:44	

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	01/20/25 16:16 01/21/25 01:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/20/25 16:16 01/21/25 01:44	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 01:44	1

	Method: SW846	8015 NM - I	Diesel Range	Organics •	(DRO)	(GC)	
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/22/25 20:29	1

Client: Crain Environmental

Matrix: Solid

Job ID: 880-53406-1

Project/Site: Lamunyon 23 SDG: Lea Co, NM Client Sample ID: S-14 (4.1') Lab Sample ID: 880-53406-28

Date Collected: 01/17/25 17:40 Date Received: 01/20/25 14:07

Sample Depth: 4.1'

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 20:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 20:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 15:15	01/22/25 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				01/20/25 15:15	01/22/25 20:29	1
o-Terphenyl	67	S1-	70 - 130				01/20/25 15:15	01/22/25 20:29	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble						
Method: EPA 300.0 - Anions, Analyte		tography - Qualifier	Soluble RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-15 (1') Lab Sample ID: 880-53406-29 **Matrix: Solid**

Date Collected: 01/17/25 17:45 Date Received: 01/20/25 14:07

Sample Depth: 1'

Method: SW846 8021B - Volat	ne Organic	Compoun	us (00)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/20/25 16:16	01/21/25 02:04	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/20/25 16:16	01/21/25 02:04	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/20/25 16:16	01/21/25 02:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/20/25 16:16	01/21/25 02:04	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/20/25 16:16	01/21/25 02:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/20/25 16:16	01/21/25 02:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				01/20/25 16:16	01/21/25 02:04	1
1,4-Difluorobenzene (Surr)	109		70 - 130				01/20/25 16:16	01/21/25 02:04	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/21/25 02:04	1
Mothod: CW046 0045 NM Did	aal Dansa (Organias (DBO) (CC)						
Method: SW846 8015 NM - Die	_			MDI	Unit	D	Propared	Analyzod	Dil Eac
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
	_	Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/22/25 20:43	Dil Fac
Analyte	Result <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - D	Result <49.9	Qualifier U Organics Qualifier	RL 49.9 (DRO) (GC)		mg/Kg		Prepared	01/22/25 20:43	1
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	Result <49.9 Viesel Range Result	Qualifier U Organics Qualifier U	RL 49.9 (GC) RL		mg/Kg Unit		Prepared 01/20/25 15:15	01/22/25 20:43 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 Diesel Range Result <49.9	Qualifier U Organics Qualifier U	RL 49.9 (GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared 01/20/25 15:15 01/20/25 15:15	01/22/25 20:43 Analyzed 01/22/25 20:43	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 Diesel Range Result <49.9 <49.9	Qualifier U Organics Qualifier U U	RL 49.9 6 (DRO) (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:15 01/20/25 15:15	01/22/25 20:43 Analyzed 01/22/25 20:43 01/22/25 20:43	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result	Qualifier U Organics Qualifier U U U Qualifier	RL 49.9 6 (DRO) (GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:15 01/20/25 15:15 01/20/25 15:15	Analyzed 01/22/25 20:43 Analyzed 01/22/25 20:43 01/22/25 20:43 01/22/25 20:43	1 Dil Fac 1 1

Client: Crain Environmental Job ID: 880-53406-1 Project/Site: Lamunyon 23

SDG: Lea Co, NM

Client Sample ID: S-15 (1') Date Collected: 01/17/25 17:45

Lab Sample ID: 880-53406-29

Date Received: 01/20/25 14:07

Matrix: Solid

Sample Depth: 1'

Method: EPA 300.0 - Anions, lo	n Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	513		9.96		mg/Kg			01/22/25 22:30	1

Client Sample ID: S-15 (4.1') Lab Sample ID: 880-53406-30 Date Collected: 01/17/25 17:55

Matrix: Solid

Date Received: 01/20/25 14:07

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		01/20/25 16:16	01/21/25 02:24	
Toluene	<0.00198	U	0.00198		mg/Kg		01/20/25 16:16	01/21/25 02:24	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/20/25 16:16	01/21/25 02:24	
m-Xylene & p-Xylene	< 0.00397	U	0.00397		mg/Kg		01/20/25 16:16	01/21/25 02:24	
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/20/25 16:16	01/21/25 02:24	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/20/25 16:16	01/21/25 02:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				01/20/25 16:16	01/21/25 02:24	
1,4-Difluorobenzene (Surr)	108		70 - 130				01/20/25 16:16	01/21/25 02:24	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/21/25 02:24	
	_	•	, , ,	MDI	11:4	ь.	Drawarad	Analysed	Dile
	_	•	, , ,			_			
Method: SW846 8015 NM - Did Analyte Total TPH	_	Qualifier	DRO) (GC) RL 50.0	MDL		D	Prepared	Analyzed 01/22/25 20:59	Dil Fa
Analyte	Result	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared		Dil F
Analyte Total TPH	<50.0	Qualifier U	RL 50.0	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - D	Result <50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte	Result <50.0	Qualifier U Organics Qualifier	RL 50.0 (DRO) (GC)		mg/Kg		Prepared	01/22/25 20:59	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - DANALYTE Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Diesel Range Result	Qualifier U Organics Qualifier U	50.0 (DRO) (GC) RL		mg/Kg Unit		Prepared 01/20/25 15:15	01/22/25 20:59 Analyzed	
Analyte Total TPH Method: SW846 8015B NM - December 2015 NM - Decembe	Result <50.0 Diesel Range Result <50.0	Qualifier U Organics Qualifier U	RL 50.0 (GC) RL 50.0		mg/Kg Unit mg/Kg		Prepared 01/20/25 15:15 01/20/25 15:15	01/22/25 20:59 Analyzed 01/22/25 20:59	
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <50.0	Qualifier U Organics Qualifier U U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:15 01/20/25 15:15	01/22/25 20:59 Analyzed 01/22/25 20:59 01/22/25 20:59	Dil F
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Result <50.0 Diesel Range Result <50.0 <50.0 <50.0	Qualifier U Organics Qualifier U U	FRL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:15 01/20/25 15:15 01/20/25 15:15 Prepared	Analyzed 01/22/25 20:59 Analyzed 01/22/25 20:59 01/22/25 20:59 01/22/25 20:59	
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U Organics Qualifier U U	FL 50.0 (GC) RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:15 01/20/25 15:15 01/20/25 15:15 Prepared 01/20/25 15:15	Analyzed 01/22/25 20:59 Analyzed 01/22/25 20:59 01/22/25 20:59 01/22/25 20:59 Analyzed	Dil F
Analyte Total TPH Method: SW846 8015B NM - December 2015 NM - Decembe	Result <50.0	Qualifier U Organics Qualifier U U U Qualifier S1-	FL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 01/20/25 15:15 01/20/25 15:15 01/20/25 15:15 Prepared 01/20/25 15:15	Analyzed 01/22/25 20:59 Analyzed 01/22/25 20:59 01/22/25 20:59 Analyzed 01/22/25 20:59	Dil F
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U Organics Qualifier U U U Qualifier S1-	FL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 01/20/25 15:15 01/20/25 15:15 01/20/25 15:15 Prepared 01/20/25 15:15	Analyzed 01/22/25 20:59 Analyzed 01/22/25 20:59 01/22/25 20:59 Analyzed 01/22/25 20:59	Dil F

Surrogate Summary

Job ID: 880-53406-1 Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-53406-1	S-1 (1')	93	92	
380-53406-2	S-1 (4.1')	109	94	
380-53406-3	S-2 (1')	99	96	
380-53406-4	S-2 (4.1')	93	99	
380-53406-5	S-3 (1')	96	99	
380-53406-6	S-3 (4.1')	91	98	
380-53406-7	S-4 (1')	99	94	
380-53406-8	S-4 (4.1')	106	99	
380-53406-9	S-5 (1')	92	99	
380-53406-10	S-5 (4.1')	111	103	
380-53406-11	S-6 (1')	108	101	
380-53406-12	S-6 (4.1')	107	102	
380-53406-13	S-7 (1')	107	101	
380-53406-14	S-7 (4.1')	106	101	
380-53406-15	S-8 (1')	109	101	
380-53406-16	S-8 (4.1')	108	101	
380-53406-17	S-9 (1')	108	102	
380-53406-18	S-9 (4.1')	107	101	
380-53406-19	S-10 (1')	108	100	
380-53406-20	S-10 (4.1')	115	86	
380-53406-21	S-11 (1')	105	99	
380-53406-22	S-11 (4.1')	105	99	
380-53406-23	S-12 (1')	107	98	
380-53406-24	S-12 (4.1')	113	90	
380-53406-25	S-13 (1')	119	107	
380-53406-26	S-13 (4.1')	124	108	
380-53406-27	S-14 (1')	122	103	
380-53406-28	S-14 (4.1')	129	103	
380-53406-29	S-15 (1')	134 S1+	109	
380-53406-30	S-15 (4.1')	145 S1+	108	
CS 880-100656/1-A	Lab Control Sample	104	115	
_CS 880-100657/1-A	Lab Control Sample	94	100	
_CS 880-100672/1-A	Lab Control Sample	97	99	
LCS 880-100072/1-A	.		100	
	Lab Control Sample	118		
LCS 880-100735/1-A	Lab Control Sample	105	88	
CSD 880-100656/2-A	Lab Control Sample Dup	103	118	
CSD 880-100657/2-A	Lab Control Sample Dup	93	102	
CSD 880-100672/2-A	Lab Control Sample Dup	99	100	
CSD 880-100710/2-A	Lab Control Sample Dup	123	96	
CSD 880-100735/2-A	Lab Control Sample Dup	104	91	
MB 880-100656/5-A	Method Blank	104	100	
MB 880-100657/5-A	Method Blank	81	93	
MB 880-100672/5-A	Method Blank	100	95	
MB 880-100710/5-A	Method Blank	191 S1+	128	
MB 880-100735/5-A	Method Blank	96	87	

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Crain Environmental
Project/Site: Lamunyon 23
Job ID: 880-53406-1
SDG: Lea Co, NM

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

Matrix: Solid Prep Type: Total/NA

				Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-53406-1	S-1 (1')	69 S1-	70	
880-53406-1 MS	S-1 (1')	75	68 S1-	
880-53406-1 MSD	S-1 (1')	73	67 S1-	
880-53406-2	S-1 (4.1')	68 S1-	67 S1-	
880-53406-3	S-2 (1')	61 S1-	60 S1-	
880-53406-4	S-2 (4.1')	66 S1-	65 S1-	
880-53406-5	S-3 (1')	68 S1-	66 S1-	
880-53406-6	S-3 (4.1')	69 S1-	68 S1-	
880-53406-7	S-4 (1')	64 S1-	63 S1-	
880-53406-8	S-4 (4.1')	70	70	
880-53406-9	S-5 (1')	65 S1-	63 S1-	
880-53406-10	S-5 (4.1')	72	72	
880-53406-11	S-6 (1')	69 S1-	69 S1-	
880-53406-12	S-6 (4.1')	62 S1-	62 S1-	
880-53406-13	S-7 (1')	66 S1-	64 S1-	
880-53406-14	S-7 (4.1')	67 S1-	66 S1-	
880-53406-15	S-8 (1')	78	78	
380-53406-16	S-8 (4.1')	65 S1-	63 S1-	
380-53406-17	S-9 (1')	73	72	
380-53406-18	S-9 (4.1')	69 S1-	68 S1-	
380-53406-19	S-10 (1')	70	69 S1-	
380-53406-20	S-10 (4.1')	68 S1-	67 S1-	
880-53406-21	S-11 (1')	73	71	
380-53406-21 MS	S-11 (1')	75	69 S1-	
880-53406-21 MSD	S-11 (1')	74	68 S1-	
880-53406-22	S-11 (4.1')	67 S1-	68 S1-	
880-53406-23	S-12 (1')	68 S1-	66 S1-	
880-53406-24	S-12 (4.1')	70	69 S1-	
880-53406-25	S-13 (1')	68 S1-	66 S1-	
880-53406-26	S-13 (4.1')	69 S1-	70	
880-53406-27	S-14 (1')	69 S1-	69 S1-	
880-53406-28	S-14 (4.1')	68 S1-	67 S1-	
880-53406-29	S-15 (1')	67 S1-	65 S1-	
880-53406-30	S-15 (4.1')	70	69 S1-	
LCS 880-100701/2-A	Lab Control Sample	95	90	
LCS 880-100702/2-A	Lab Control Sample	105	99	
LCSD 880-100702/2-A	Lab Control Sample Dup	111	104	
LCSD 880-100702/3-A	Lab Control Sample Dup	120	115	
MB 880-100701/1-A	Method Blank	115	115	
MB 880-100702/1-A	Method Blank	110	112	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Crain Environmental Job ID: 880-53406-1 Project/Site: Lamunyon 23 SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100656/5-A

Matrix: Solid

Analysis Batch: 100621

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100656

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/20/25 09:49	01/20/25 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/20/25 09:49	01/20/25 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/20/25 09:49	01/20/25 11:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/20/25 09:49	01/20/25 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/20/25 09:49	01/20/25 11:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/20/25 09:49	01/20/25 11:46	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/20/25 09:49	01/20/25 11:46	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/20/25 09:49	01/20/25 11:46	1

Lab Sample ID: LCS 880-100656/1-A

Matrix: Solid

Analysis Batch: 100621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100656

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1107	-	mg/Kg		111	70 - 130	
Toluene	0.100	0.09845		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.1080		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2260		mg/Kg		113	70 - 130	
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: LCSD 880-100656/2-A

Matrix: Solid

Analysis Batch: 100621

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100656

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1105		mg/Kg		111	70 - 130	0	35
Toluene	0.100	0.09745		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.1061		mg/Kg		106	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2228		mg/Kg		111	70 - 130	1	35
o-Xylene	0.100	0.1081		mg/Kg		108	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1.4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: MB 880-100657/5-A

Matrix: Solid

Analysis Batch: 100620

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100657

	1410	1410						
Analyte	Result	Qualifier	RL	MDL Unit	t D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/ł	Kg –	01/20/25 09:54	01/20/25 11:41	1
Toluene	<0.00200	U	0.00200	mg/ł	Kg	01/20/25 09:54	01/20/25 11:41	1

Client: Crain Environmental Job ID: 880-53406-1 Project/Site: Lamunyon 23 SDG: Lea Co, NM

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

Lab Sample ID: MB 880-100657/5-A

Matrix: Solid

Analysis Batch: 100620

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100657

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/20/25 09:54	01/20/25 11:41	1
m-Xylene & p-Xylei	ne <0.00400	U	0.00400		mg/Kg		01/20/25 09:54	01/20/25 11:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/20/25 09:54	01/20/25 11:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/20/25 09:54	01/20/25 11:41	1

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81	70 - 130	01/20/25 09:54	01/20/25 11:41	1
1,4-Difluorobenzene (Surr)	93	70 - 130	01/20/25 09:54	01/20/25 11:41	1

Lab Sample ID: LCS 880-100657/1-A

Matrix: Solid

Analysis Batch: 100620

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

Prep Batch: 100657

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier l	Unit	D	%Rec	Limits	
Benzene	0.100	0.1052	r	ng/Kg	_	105	70 - 130	
Toluene	0.100	0.1109	r	ng/Kg		111	70 - 130	
Ethylbenzene	0.100	0.1140	r	ng/Kg		114	70 - 130	
m-Xylene & p-Xylene	0.200	0.2020	r	ng/Kg		101	70 - 130	
o-Xylene	0.100	0.1131	r	mg/Kg		113	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-100657/2-A

Matrix: Solid

Analysis Batch: 100620

Client Sam	ple ID: Lab	Control	Sample Dup
Onchit Outil	pic ib. Lus		Outlible Dup

Prep Type: Total/NA

Prep Batch: 100657

•	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D %	6Rec	Limits	RPD	Limit
Benzene	0.100	0.1057	mg/Kg		106	70 - 130	0	35
Toluene	0.100	0.1099	mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.1102	mg/Kg		110	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1957	mg/Kg		98	70 - 130	3	35
o-Xylene	0.100	0.1097	mg/Kg		110	70 - 130	3	35

LCSD LCSD

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: MB 880-100672/5-A

Matrix: Solid

Analysis Batch: 100618

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100672

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/20/25 10:50	01/20/25 12:10	1
Toluene	< 0.00200	U	0.00200		mg/Kg		01/20/25 10:50	01/20/25 12:10	1
Ethylbenzene	< 0.00200	U	0.00200		mg/Kg		01/20/25 10:50	01/20/25 12:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/20/25 10:50	01/20/25 12:10	1

Client: Crain Environmental Job ID: 880-53406-1 Project/Site: Lamunyon 23 SDG: Lea Co, NM

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

Lab Sample ID: MB 880-100672/5-A

Matrix: Solid

Analysis Batch: 100618

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100672

Prep Batch: 100672

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/20/25 10:50	01/20/25 12:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/20/25 10:50	01/20/25 12:10	1

MB MB

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100	70 - 130	01/20/25 10:50	01/20/25 12:10	1
1,4-Difluorobenzene (Surr)	95	70 - 130	01/20/25 10:50	01/20/25 12:10	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-100672/1-A Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 100618

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08621		mg/Kg		86	70 - 130	
Toluene	0.100	0.08779		mg/Kg		88	70 - 130	
Ethylbenzene	0.100	0.09008		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1700		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.08654		mg/Kg		87	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-100672/2-A

Matrix: Solid

Analysis Batch: 100618

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CHEILI	alliune il	J. Lau	COHILL	Januar	

Prep Type: Total/NA

Prep Batch: 100672

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08439		mg/Kg		84	70 - 130	2	35
Toluene	0.100	0.08547		mg/Kg		85	70 - 130	3	35
Ethylbenzene	0.100	0.08819		mg/Kg		88	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1675		mg/Kg		84	70 - 130	1	35
o-Xylene	0.100	0.08544		mg/Kg		85	70 - 130	1	35

LCSD LCSD

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

Lab Sample ID: MB 880-100710/5-A

Matrix: Solid

Analysis Batch: 100623

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100710 мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/20/25 17:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/20/25 17:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/20/25 17:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/20/25 16:16	01/20/25 17:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/20/25 16:16	01/20/25 17:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/20/25 16:16	01/20/25 17:58	1

Client: Crain Environmental Job ID: 880-53406-1 SDG: Lea Co, NM Project/Site: Lamunyon 23

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

	МВ	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	191	S1+	70 - 130	01/20/25 16:16	01/20/25 17:58	1
1,4-Difluorobenzene (Surr)	128		70 - 130	01/20/25 16:16	01/20/25 17:58	1

Lab Sample ID: LCS 880-100710/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 100623

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.1052 105 70 - 130 mg/Kg 70 - 130 Toluene 0.100 105 0.1049 mg/Kg Ethylbenzene 0.100 0.1061 mg/Kg 106 70 - 130 m-Xylene & p-Xylene 0.200 0.2409 mg/Kg 120 70 - 130 o-Xylene 0.100 0.1173 mg/Kg 117 70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 118 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: LCSD 880-100710/2-A

Matrix: Solid

Analysis Batch: 100623

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

Prep Batch: 100710

Prep Batch: 100710

Spike LCSD LCSD %Rec **RPD** RPD Analyte Added Result Qualifier Unit D %Rec Limits Limit Benzene 0.100 0.09890 99 70 - 130 35 mg/Kg 6 Toluene 0.100 0.09577 mg/Kg 96 70 - 130 9 35 Ethylbenzene 0.100 0.1022 mg/Kg 102 70 - 130 35 0.200 35 m-Xylene & p-Xylene 0.2349 mg/Kg 117 70 - 130 3 o-Xylene 0.100 0.1154 mg/Kg 115 70 - 130 2 35

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

Lab Sample ID: MB 880-100735/5-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 100729

Prep Type: Total/NA Prep Batch: 100735 MB MB

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 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

	MB	MB				
Surrogate	%Recovery	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-Diffuorobenzene (Surr)	87		70 130	01/21/25 08:46	01/21/25 11:24	1

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

Client: Crain Environmental Job ID: 880-53406-1 Project/Site: Lamunyon 23 SDG: Lea Co, NM

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100735

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

LCS LCS

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

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 100729

Analysis Batch: 100729

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

Prep Type: Total/NA Prep Batch: 100735

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

LCSD LCSD

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

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

Lab Sample ID: MB 880-100701/1-A

Matrix: Solid

Analysis Batch: 100739

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

Prep Batch: 100701

	1410	1410							
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 15:11	01/21/25 19:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 15:11	01/21/25 19:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 15:11	01/21/25 19:09	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	01/20/25 15:11	01/21/25 19:09	1
o-Terphenyl	115		70 - 130	01/20/25 15:11	01/21/25 19:09	1

Lab Sample ID: LCS 880-100701/2-A

Matrix: Solid

Analysis Batch: 100739

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

Prep Batch: 100701

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 833.7 mg/Kg 83 70 - 130

(GRO)-C6-C10

Client: Crain Environmental Job ID: 880-53406-1 SDG: Lea Co, NM Project/Site: Lamunyon 23

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

Lab Sample ID: LCS 880-100701/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Prep Batch: 100701 Analysis Batch: 100739**

LCS LCS %Rec Spike Added Result Qualifier Unit %Rec Limits Diesel Range Organics (Over 1000 888.3 mg/Kg 89 70 - 130

C10-C28)

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 95 o-Terphenyl 90 70 - 130

Lab Sample ID: LCSD 880-100701/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 100739 Prep Batch: 100701

LCSD LCSD RPD Spike %Rec Result Qualifier Limits RPD Limit **Analyte** Added Unit %Rec Gasoline Range Organics 1000 997.1 100 70 - 130 18 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1055 mg/Kg 105 70 - 130 17 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 111 o-Terphenyl 104 70 - 130

Lab Sample ID: 880-53406-1 MS Client Sample ID: S-1 (1')

Matrix: Solid

Analysis Batch: 100739 Prep Batch: 100701 %Rec Spike MS MS Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

Gasoline Range Organics <49.8 U F1 997 666.1 F1 mg/Kg 67 70 - 130 (GRO)-C6-C10 997 727.3 Diesel Range Organics (Over <49.8 U mg/Kg 73 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 75 70 - 130 o-Terphenyl 68 S1-70 - 130

Lab Sample ID: 880-53406-1 MSD Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 100739

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit D Gasoline Range Organics <49.8 U F1 997 651.0 F1 mg/Kg 65 70 - 130 20 (GRO)-C6-C10 997 722.2 Diesel Range Organics (Over <49.8 U mg/Kg

C10-C28)

	IVISU	IVISU	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	67	S1-	70 - 130

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Prep Type: Total/NA

Client Sample ID: S-1 (1')

Prep Batch: 100701

70 - 130

Client: Crain Environmental Job ID: 880-53406-1 Project/Site: Lamunyon 23 SDG: Lea Co, NM

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

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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

	MB	MB							
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 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
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110	-	70 - 130				01/20/25 15:15	01/22/25 17:33	1

70 - 130

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

Matrix: Solid

o-Terphenyl

Analysis Batch: 100857

Client Sample ID: Lab Control Sample

01/20/25 15:15 01/22/25 17:33

Prep Type: Total/NA

Prep Batch: 100702

		эріке	LUS	LUS				%Rec	
/	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Gasoline Range Organics	1000	980.0		mg/Kg		98	70 - 130	
١,	(GRO)-C6-C10 Diesel Range Organics (Over	1000	1008		mg/Kg		101	70 - 130	
(C10-C28)				0 0				

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 105 70 - 130 70 - 130 o-Terphenyl 99

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

Matrix: Solid

Analysis Batch: 100857

Client	Sample	ID:	Lab (Contro	l Samp	le Dup
				Dron T	vne: To	stal/NA

Prep Type: Total/NA

Prep Batch: 100702

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

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 120 70 - 130 o-Terphenyl 115 70 - 130

Lab Sample ID: 880-53406-21 MS

Matrix: Solid

Analysis Batch: 100857

Client Sample ID: S-11 (1')	CI	ient S	Sampl	e ID:	S-11	(1')
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Prep Type: Total/NA

Prep Batch: 100702

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	996	681.6	F1	mg/Kg	<u> </u>	68	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.7	U	996	734.5		mg/Kg		74	70 - 130	

Job ID: 880-53406-1

SDG: Lea Co, NM

Project/Site: Lamunyon 23

Client: Crain Environmental

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

Lab Sample ID: 880-53406-21 MS Client Sample ID: S-11 (1') **Matrix: Solid**

Prep Type: Total/NA Prep Batch: 100702 **Analysis Batch: 100857**

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 75 70 - 130 o-Terphenyl 69 S1-70 - 130

Lab Sample ID: 880-53406-21 MSD Client Sample ID: S-11 (1')

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 100857

Prep Batch: 100702

%Rec RPD MSD MSD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <49.7 U F1 996 661.3 F1 mg/Kg 66 70 - 130 3 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.7 U 996 730.7 mg/Kg 73 70 - 130 20 C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 74 70 - 130 o-Terphenyl 68 S1-

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100746/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble**

Analysis Batch: 100761

MB MB

RL Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac 01/21/25 14:47 10.0 Chloride <10.0 U mg/Kg

Lab Sample ID: LCS 880-100746/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 100761

Spike LCS LCS %Rec Analyte Added Result Qualifier D %Rec Limits Unit 250 106 Chloride 264.8 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-100746/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 100761

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Analyte Unit %Rec Limits RPD Limit Chloride 250 263.8 mg/Kg 106 90 - 110 0

Lab Sample ID: MB 880-100805/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 100871

MB MB

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

Client: Crain Environmental Job ID: 880-53406-1 SDG: Lea Co, NM Project/Site: Lamunyon 23

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-100805/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 100871

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec

Chloride 250 258.8 mg/Kg 104 90 - 110

Lab Sample ID: LCSD 880-100805/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 100871

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 250 90 - 110 Chloride 259.3 mg/Kg 104 n

Lab Sample ID: 880-53406-27 MS Client Sample ID: S-14 (1') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 100871

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit D %Rec Chloride 71.6 249 335.0 106 90 - 110 mg/Kg

Lab Sample ID: 880-53406-27 MSD Client Sample ID: S-14 (1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 100871

Spike MSD MSD **RPD** %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 335.2 Chloride 71.6 249 mg/Kg 106 90 - 110

Lab Sample ID: MB 880-100804/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 100872

Analyte RL MDL Result Qualifier Unit Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 01/22/25 16:43 mg/Kg

Lab Sample ID: LCS 880-100804/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

MR MR

Matrix: Solid

Analysis Batch: 100872

Spike LCS LCS %Rec Added Analyte Result Qualifier %Rec Limits Unit D 250 Chloride 255.2 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-100804/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 100872

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit Limits RPD Limit Analyte D %Rec 250 102 Chloride 255.7 mg/Kg 90 - 110 0

Lab Sample ID: 880-53406-7 MS Client Sample ID: S-4 (1')

Matrix: Solid

Analysis Batch: 100872

Spike MS MS %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 1290 F1 1260 3010 F1 mg/Kg 137 90 - 110

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Prep Type: Soluble

Released to Imaging: 5/14/2025 10:45:18 AM

QC Sample Results

Client: Crain Environmental Job ID: 880-53406-1 Project/Site: Lamunyon 23 SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-53406-7 MSD Client Sample ID: S-4 (1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 100872

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1290	F1	1260	3021	F1	mg/Kg	_	137	90 - 110	0	20

Lab Sample ID: 880-53406-17 MS Client Sample ID: S-9 (1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 100872

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	3020	F1	1260	4819	F1	mg/Kg		144	90 - 110	

Lab Sample ID: 880-53406-17 MSD Client Sample ID: S-9 (1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 100872

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	3020	F1	1260	4819	F1	mg/Kg		144	90 - 110	0	20

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Released to Imaging: 5/14/2025 10:45:18 AM

Job ID: 880-53406-1 Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM

GC VOA

Analysis Batch: 100618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-19	S-10 (1')	Total/NA	Solid	8021B	100672
880-53406-20	S-10 (4.1')	Total/NA	Solid	8021B	100672
880-53406-21	S-11 (1')	Total/NA	Solid	8021B	100672
880-53406-22	S-11 (4.1')	Total/NA	Solid	8021B	100672
880-53406-23	S-12 (1')	Total/NA	Solid	8021B	100672
MB 880-100672/5-A	Method Blank	Total/NA	Solid	8021B	100672
LCS 880-100672/1-A	Lab Control Sample	Total/NA	Solid	8021B	100672
LCSD 880-100672/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100672

Analysis Batch: 100620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-1	S-1 (1')	Total/NA	Solid	8021B	100657
880-53406-2	S-1 (4.1')	Total/NA	Solid	8021B	100657
880-53406-3	S-2 (1')	Total/NA	Solid	8021B	100657
880-53406-4	S-2 (4.1')	Total/NA	Solid	8021B	100657
880-53406-5	S-3 (1')	Total/NA	Solid	8021B	100657
880-53406-6	S-3 (4.1')	Total/NA	Solid	8021B	100657
880-53406-7	S-4 (1')	Total/NA	Solid	8021B	100657
880-53406-8	S-4 (4.1')	Total/NA	Solid	8021B	100657
880-53406-9	S-5 (1')	Total/NA	Solid	8021B	100657
MB 880-100657/5-A	Method Blank	Total/NA	Solid	8021B	100657
LCS 880-100657/1-A	Lab Control Sample	Total/NA	Solid	8021B	100657
LCSD 880-100657/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100657

Analysis Batch: 100621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-10	S-5 (4.1')	Total/NA	Solid	8021B	100656
880-53406-11	S-6 (1')	Total/NA	Solid	8021B	100656
880-53406-12	S-6 (4.1')	Total/NA	Solid	8021B	100656
880-53406-13	S-7 (1')	Total/NA	Solid	8021B	100656
880-53406-14	S-7 (4.1')	Total/NA	Solid	8021B	100656
880-53406-15	S-8 (1')	Total/NA	Solid	8021B	100656
880-53406-16	S-8 (4.1')	Total/NA	Solid	8021B	100656
880-53406-17	S-9 (1')	Total/NA	Solid	8021B	100656
880-53406-18	S-9 (4.1')	Total/NA	Solid	8021B	100656
MB 880-100656/5-A	Method Blank	Total/NA	Solid	8021B	100656
LCS 880-100656/1-A	Lab Control Sample	Total/NA	Solid	8021B	100656
LCSD 880-100656/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100656

Analysis Batch: 100623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-25	S-13 (1')	Total/NA	Solid	8021B	100710
880-53406-26	S-13 (4.1')	Total/NA	Solid	8021B	100710
880-53406-27	S-14 (1')	Total/NA	Solid	8021B	100710
880-53406-28	S-14 (4.1')	Total/NA	Solid	8021B	100710
880-53406-29	S-15 (1')	Total/NA	Solid	8021B	100710
880-53406-30	S-15 (4.1')	Total/NA	Solid	8021B	100710
MB 880-100710/5-A	Method Blank	Total/NA	Solid	8021B	100710
LCS 880-100710/1-A	Lab Control Sample	Total/NA	Solid	8021B	100710
LCSD 880-100710/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100710

Client: Crain Environmental
Project/Site: Lamunyon 23
Job ID: 880-53406-1
SDG: Lea Co, NM

GC VOA

Prep Batch: 100656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-10	S-5 (4.1')	Total/NA	Solid	5035	
880-53406-11	S-6 (1')	Total/NA	Solid	5035	
880-53406-12	S-6 (4.1')	Total/NA	Solid	5035	
880-53406-13	S-7 (1')	Total/NA	Solid	5035	
880-53406-14	S-7 (4.1')	Total/NA	Solid	5035	
880-53406-15	S-8 (1')	Total/NA	Solid	5035	
880-53406-16	S-8 (4.1')	Total/NA	Solid	5035	
880-53406-17	S-9 (1')	Total/NA	Solid	5035	
880-53406-18	S-9 (4.1')	Total/NA	Solid	5035	
MB 880-100656/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100656/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100656/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 100657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-1	S-1 (1')	Total/NA	Solid	5035	
880-53406-2	S-1 (4.1')	Total/NA	Solid	5035	
880-53406-3	S-2 (1')	Total/NA	Solid	5035	
880-53406-4	S-2 (4.1')	Total/NA	Solid	5035	
880-53406-5	S-3 (1')	Total/NA	Solid	5035	
880-53406-6	S-3 (4.1')	Total/NA	Solid	5035	
880-53406-7	S-4 (1')	Total/NA	Solid	5035	
880-53406-8	S-4 (4.1')	Total/NA	Solid	5035	
880-53406-9	S-5 (1')	Total/NA	Solid	5035	
MB 880-100657/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100657/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100657/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 100672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-19	S-10 (1')	Total/NA	Solid	5035	
880-53406-20	S-10 (4.1')	Total/NA	Solid	5035	
880-53406-21	S-11 (1')	Total/NA	Solid	5035	
880-53406-22	S-11 (4.1')	Total/NA	Solid	5035	
880-53406-23	S-12 (1')	Total/NA	Solid	5035	
MB 880-100672/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100672/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100672/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 100710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-25	S-13 (1')	Total/NA	Solid	5035	
880-53406-26	S-13 (4.1')	Total/NA	Solid	5035	
880-53406-27	S-14 (1')	Total/NA	Solid	5035	
880-53406-28	S-14 (4.1')	Total/NA	Solid	5035	
880-53406-29	S-15 (1')	Total/NA	Solid	5035	
880-53406-30	S-15 (4.1')	Total/NA	Solid	5035	
MB 880-100710/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100710/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100710/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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Job ID: 880-53406-1 Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM

GC VOA

Analysis Batch: 100729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-24	S-12 (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

Prep Batch: 100735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-24	S-12 (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	

Analysis Batch: 100783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-1	S-1 (1')	Total/NA	Solid	Total BTEX	
880-53406-2	S-1 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-3	S-2 (1')	Total/NA	Solid	Total BTEX	
880-53406-4	S-2 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-5	S-3 (1')	Total/NA	Solid	Total BTEX	
880-53406-6	S-3 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-7	S-4 (1')	Total/NA	Solid	Total BTEX	
880-53406-8	S-4 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-9	S-5 (1')	Total/NA	Solid	Total BTEX	
880-53406-10	S-5 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-11	S-6 (1')	Total/NA	Solid	Total BTEX	
880-53406-12	S-6 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-13	S-7 (1')	Total/NA	Solid	Total BTEX	
880-53406-14	S-7 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-15	S-8 (1')	Total/NA	Solid	Total BTEX	
880-53406-16	S-8 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-17	S-9 (1')	Total/NA	Solid	Total BTEX	
880-53406-18	S-9 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-19	S-10 (1')	Total/NA	Solid	Total BTEX	
880-53406-20	S-10 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-21	S-11 (1')	Total/NA	Solid	Total BTEX	
880-53406-22	S-11 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-23	S-12 (1')	Total/NA	Solid	Total BTEX	
880-53406-24	S-12 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-25	S-13 (1')	Total/NA	Solid	Total BTEX	
880-53406-26	S-13 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-27	S-14 (1')	Total/NA	Solid	Total BTEX	
880-53406-28	S-14 (4.1')	Total/NA	Solid	Total BTEX	
880-53406-29	S-15 (1')	Total/NA	Solid	Total BTEX	
880-53406-30	S-15 (4.1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-1	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-53406-2	S-1 (4.1')	Total/NA	Solid	8015NM Prep	

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Client: Crain Environmental
Project/Site: Lamunyon 23
Job ID: 880-53406-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Prep Batch: 100701 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-3	S-2 (1')	Total/NA	Solid	8015NM Prep	
880-53406-4	S-2 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-5	S-3 (1')	Total/NA	Solid	8015NM Prep	
880-53406-6	S-3 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-7	S-4 (1')	Total/NA	Solid	8015NM Prep	
880-53406-8	S-4 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-9	S-5 (1')	Total/NA	Solid	8015NM Prep	
880-53406-10	S-5 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-11	S-6 (1')	Total/NA	Solid	8015NM Prep	
880-53406-12	S-6 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-13	S-7 (1')	Total/NA	Solid	8015NM Prep	
880-53406-14	S-7 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-15	S-8 (1')	Total/NA	Solid	8015NM Prep	
880-53406-16	S-8 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-17	S-9 (1')	Total/NA	Solid	8015NM Prep	
880-53406-18	S-9 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-19	S-10 (1')	Total/NA	Solid	8015NM Prep	
880-53406-20	S-10 (4.1')	Total/NA	Solid	8015NM Prep	
MB 880-100701/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100701/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100701/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53406-1 MS	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-53406-1 MSD	S-1 (1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 100702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-21	S-11 (1')	Total/NA	Solid	8015NM Prep	
880-53406-22	S-11 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-23	S-12 (1')	Total/NA	Solid	8015NM Prep	
880-53406-24	S-12 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-25	S-13 (1')	Total/NA	Solid	8015NM Prep	
880-53406-26	S-13 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-27	S-14 (1')	Total/NA	Solid	8015NM Prep	
880-53406-28	S-14 (4.1')	Total/NA	Solid	8015NM Prep	
880-53406-29	S-15 (1')	Total/NA	Solid	8015NM Prep	
880-53406-30	S-15 (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	
880-53406-21 MS	S-11 (1')	Total/NA	Solid	8015NM Prep	
880-53406-21 MSD	S-11 (1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-1	S-1 (1')	Total/NA	Solid	8015B NM	100701
880-53406-2	S-1 (4.1')	Total/NA	Solid	8015B NM	100701
880-53406-3	S-2 (1')	Total/NA	Solid	8015B NM	100701
880-53406-4	S-2 (4.1')	Total/NA	Solid	8015B NM	100701
880-53406-5	S-3 (1')	Total/NA	Solid	8015B NM	100701
880-53406-6	S-3 (4.1')	Total/NA	Solid	8015B NM	100701
880-53406-7	S-4 (1')	Total/NA	Solid	8015B NM	100701

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1/23/2025

Client: Crain Environmental Job ID: 880-53406-1
Project/Site: Lamunyon 23 SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 100739 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-8	S-4 (4.1')	Total/NA	Solid	8015B NM	100701
880-53406-9	S-5 (1')	Total/NA	Solid	8015B NM	100701
880-53406-10	S-5 (4.1')	Total/NA	Solid	8015B NM	100701
880-53406-11	S-6 (1')	Total/NA	Solid	8015B NM	100701
880-53406-12	S-6 (4.1')	Total/NA	Solid	8015B NM	100701
880-53406-13	S-7 (1')	Total/NA	Solid	8015B NM	100701
880-53406-14	S-7 (4.1')	Total/NA	Solid	8015B NM	100701
880-53406-15	S-8 (1')	Total/NA	Solid	8015B NM	100701
880-53406-16	S-8 (4.1')	Total/NA	Solid	8015B NM	100701
880-53406-17	S-9 (1')	Total/NA	Solid	8015B NM	100701
880-53406-18	S-9 (4.1')	Total/NA	Solid	8015B NM	100701
880-53406-19	S-10 (1')	Total/NA	Solid	8015B NM	100701
880-53406-20	S-10 (4.1')	Total/NA	Solid	8015B NM	100701
MB 880-100701/1-A	Method Blank	Total/NA	Solid	8015B NM	100701
LCS 880-100701/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100701
LCSD 880-100701/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100701
880-53406-1 MS	S-1 (1')	Total/NA	Solid	8015B NM	100701
880-53406-1 MSD	S-1 (1')	Total/NA	Solid	8015B NM	100701

Analysis Batch: 100857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-21	S-11 (1')	Total/NA	Solid	8015B NM	100702
880-53406-22	S-11 (4.1')	Total/NA	Solid	8015B NM	100702
880-53406-23	S-12 (1')	Total/NA	Solid	8015B NM	100702
880-53406-24	S-12 (4.1')	Total/NA	Solid	8015B NM	100702
880-53406-25	S-13 (1')	Total/NA	Solid	8015B NM	100702
880-53406-26	S-13 (4.1')	Total/NA	Solid	8015B NM	100702
880-53406-27	S-14 (1')	Total/NA	Solid	8015B NM	100702
880-53406-28	S-14 (4.1')	Total/NA	Solid	8015B NM	100702
880-53406-29	S-15 (1')	Total/NA	Solid	8015B NM	100702
880-53406-30	S-15 (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
880-53406-21 MS	S-11 (1')	Total/NA	Solid	8015B NM	100702
880-53406-21 MSD	S-11 (1')	Total/NA	Solid	8015B NM	100702

Analysis Batch: 100900

Released to Imaging: 5/14/2025 10:45:18 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-1	S-1 (1')	Total/NA	Solid	8015 NM	
880-53406-2	S-1 (4.1')	Total/NA	Solid	8015 NM	
880-53406-3	S-2 (1')	Total/NA	Solid	8015 NM	
880-53406-4	S-2 (4.1')	Total/NA	Solid	8015 NM	
880-53406-5	S-3 (1')	Total/NA	Solid	8015 NM	
880-53406-6	S-3 (4.1')	Total/NA	Solid	8015 NM	
880-53406-7	S-4 (1')	Total/NA	Solid	8015 NM	
880-53406-8	S-4 (4.1')	Total/NA	Solid	8015 NM	
880-53406-9	S-5 (1')	Total/NA	Solid	8015 NM	
880-53406-10	S-5 (4.1')	Total/NA	Solid	8015 NM	
880-53406-11	S-6 (1')	Total/NA	Solid	8015 NM	
880-53406-12	S-6 (4.1')	Total/NA	Solid	8015 NM	

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Client: Crain Environmental
Project/Site: Lamunyon 23

Job ID: 880-53406-1
SDG: Lea Co, NM

GC Semi VOA (Continued)

Analysis Batch: 100900 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-13	S-7 (1')	Total/NA	Solid	8015 NM	_
880-53406-14	S-7 (4.1')	Total/NA	Solid	8015 NM	
880-53406-15	S-8 (1')	Total/NA	Solid	8015 NM	
880-53406-16	S-8 (4.1')	Total/NA	Solid	8015 NM	
880-53406-17	S-9 (1')	Total/NA	Solid	8015 NM	
880-53406-18	S-9 (4.1')	Total/NA	Solid	8015 NM	
880-53406-19	S-10 (1')	Total/NA	Solid	8015 NM	
880-53406-20	S-10 (4.1')	Total/NA	Solid	8015 NM	
880-53406-21	S-11 (1')	Total/NA	Solid	8015 NM	
880-53406-22	S-11 (4.1')	Total/NA	Solid	8015 NM	
880-53406-23	S-12 (1')	Total/NA	Solid	8015 NM	
880-53406-24	S-12 (4.1')	Total/NA	Solid	8015 NM	
880-53406-25	S-13 (1')	Total/NA	Solid	8015 NM	
880-53406-26	S-13 (4.1')	Total/NA	Solid	8015 NM	
880-53406-27	S-14 (1')	Total/NA	Solid	8015 NM	
880-53406-28	S-14 (4.1')	Total/NA	Solid	8015 NM	
880-53406-29	S-15 (1')	Total/NA	Solid	8015 NM	
880-53406-30	S-15 (4.1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-1	S-1 (1')	Soluble	Solid	DI Leach	
880-53406-2	S-1 (4.1')	Soluble	Solid	DI Leach	
880-53406-3	S-2 (1')	Soluble	Solid	DI Leach	
880-53406-4	S-2 (4.1')	Soluble	Solid	DI Leach	
880-53406-5	S-3 (1')	Soluble	Solid	DI Leach	
880-53406-6	S-3 (4.1')	Soluble	Solid	DI Leach	
MB 880-100746/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100746/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100746/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 100761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-1	S-1 (1')	Soluble	Solid	300.0	100746
880-53406-2	S-1 (4.1')	Soluble	Solid	300.0	100746
880-53406-3	S-2 (1')	Soluble	Solid	300.0	100746
880-53406-4	S-2 (4.1')	Soluble	Solid	300.0	100746
880-53406-5	S-3 (1')	Soluble	Solid	300.0	100746
880-53406-6	S-3 (4.1')	Soluble	Solid	300.0	100746
MB 880-100746/1-A	Method Blank	Soluble	Solid	300.0	100746
LCS 880-100746/2-A	Lab Control Sample	Soluble	Solid	300.0	100746
LCSD 880-100746/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100746

Leach Batch: 100804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-7	S-4 (1')	Soluble	Solid	DI Leach	
880-53406-8	S-4 (4.1')	Soluble	Solid	DI Leach	
880-53406-9	S-5 (1')	Soluble	Solid	DI Leach	
880-53406-10	S-5 (4.1')	Soluble	Solid	DI Leach	

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Job ID: 880-53406-1 Client: Crain Environmental Project/Site: Lamunyon 23 SDG: Lea Co, NM

HPLC/IC (Continued)

Leach Batch: 100804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-11	S-6 (1')	Soluble	Solid	DI Leach	_
880-53406-12	S-6 (4.1')	Soluble	Solid	DI Leach	
880-53406-13	S-7 (1')	Soluble	Solid	DI Leach	
880-53406-14	S-7 (4.1')	Soluble	Solid	DI Leach	
880-53406-15	S-8 (1')	Soluble	Solid	DI Leach	
880-53406-16	S-8 (4.1')	Soluble	Solid	DI Leach	
880-53406-17	S-9 (1')	Soluble	Solid	DI Leach	
880-53406-18	S-9 (4.1')	Soluble	Solid	DI Leach	
880-53406-19	S-10 (1')	Soluble	Solid	DI Leach	
880-53406-20	S-10 (4.1')	Soluble	Solid	DI Leach	
880-53406-21	S-11 (1')	Soluble	Solid	DI Leach	
880-53406-22	S-11 (4.1')	Soluble	Solid	DI Leach	
880-53406-23	S-12 (1')	Soluble	Solid	DI Leach	
880-53406-24	S-12 (4.1')	Soluble	Solid	DI Leach	
880-53406-25	S-13 (1')	Soluble	Solid	DI Leach	
880-53406-26	S-13 (4.1')	Soluble	Solid	DI Leach	
MB 880-100804/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-100804/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-100804/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
380-53406-7 MS	S-4 (1')	Soluble	Solid	DI Leach	
880-53406-7 MSD	S-4 (1')	Soluble	Solid	DI Leach	
380-53406-17 MS	S-9 (1')	Soluble	Solid	DI Leach	
880-53406-17 MSD	S-9 (1')	Soluble	Solid	DI Leach	

Leach Batch: 100805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-27	S-14 (1')	Soluble	Solid	DI Leach	
880-53406-28	S-14 (4.1')	Soluble	Solid	DI Leach	
880-53406-29	S-15 (1')	Soluble	Solid	DI Leach	
880-53406-30	S-15 (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	
880-53406-27 MS	S-14 (1')	Soluble	Solid	DI Leach	
880-53406-27 MSD	S-14 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 100871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-27	S-14 (1')	Soluble	Solid	300.0	100805
880-53406-28	S-14 (4.1')	Soluble	Solid	300.0	100805
880-53406-29	S-15 (1')	Soluble	Solid	300.0	100805
880-53406-30	S-15 (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
880-53406-27 MS	S-14 (1')	Soluble	Solid	300.0	100805
880-53406-27 MSD	S-14 (1')	Soluble	Solid	300.0	100805

Analysis Batch: 100872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-7	S-4 (1')	Soluble	Solid	300.0	100804

Client: Crain Environmental
Project/Site: Lamunyon 23
Job ID: 880-53406-1
SDG: Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 100872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53406-8	S-4 (4.1')	Soluble	Solid	300.0	100804
880-53406-9	S-5 (1')	Soluble	Solid	300.0	100804
880-53406-10	S-5 (4.1')	Soluble	Solid	300.0	100804
880-53406-11	S-6 (1')	Soluble	Solid	300.0	100804
880-53406-12	S-6 (4.1')	Soluble	Solid	300.0	100804
880-53406-13	S-7 (1')	Soluble	Solid	300.0	100804
880-53406-14	S-7 (4.1')	Soluble	Solid	300.0	100804
880-53406-15	S-8 (1')	Soluble	Solid	300.0	100804
880-53406-16	S-8 (4.1')	Soluble	Solid	300.0	100804
880-53406-17	S-9 (1')	Soluble	Solid	300.0	100804
880-53406-18	S-9 (4.1')	Soluble	Solid	300.0	100804
880-53406-19	S-10 (1')	Soluble	Solid	300.0	100804
880-53406-20	S-10 (4.1')	Soluble	Solid	300.0	100804
880-53406-21	S-11 (1')	Soluble	Solid	300.0	100804
880-53406-22	S-11 (4.1')	Soluble	Solid	300.0	100804
880-53406-23	S-12 (1')	Soluble	Solid	300.0	100804
880-53406-24	S-12 (4.1')	Soluble	Solid	300.0	100804
880-53406-25	S-13 (1')	Soluble	Solid	300.0	100804
880-53406-26	S-13 (4.1')	Soluble	Solid	300.0	100804
MB 880-100804/1-A	Method Blank	Soluble	Solid	300.0	100804
LCS 880-100804/2-A	Lab Control Sample	Soluble	Solid	300.0	100804
LCSD 880-100804/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100804
880-53406-7 MS	S-4 (1')	Soluble	Solid	300.0	100804
880-53406-7 MSD	S-4 (1')	Soluble	Solid	300.0	100804
880-53406-17 MS	S-9 (1')	Soluble	Solid	300.0	100804
880-53406-17 MSD	S-9 (1')	Soluble	Solid	300.0	100804

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Job ID: 880-53406-1 SDG: Lea Co, NM

Lab Sample ID: 880-53406-1

Matrix: Solid

Client Sample ID: S-1 (1') Date Collected: 01/17/25 13:15

Client: Crain Environmental

Project/Site: Lamunyon 23

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	100657	01/20/25 14:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100620	01/20/25 17:01	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 17:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/21/25 19:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 19:52	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100746	01/21/25 09:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100761	01/21/25 17:45	CH	EET MID

Client Sample ID: S-1 (4.1')

Date Collected: 01/17/25 13:30 Date Received: 01/20/25 14:07

Lab Sample ID: 880-53406-2

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor Amount** Amount Number **Analyst** Lab Total/NA Prep 5035 100657 01/20/25 14:54 EL EET MID 4.95 g 5 mL Total/NA 8021B 5 mL 01/20/25 17:21 EL **EET MID** Analysis 5 mL 100620 1 Total/NA Total BTEX Analysis 100783 01/20/25 17:21 SM **EET MID** 1 Total/NA 8015 NM **EET MID** Analysis 1 100900 01/21/25 20:36 SM Total/NA Prep 8015NM Prep 10.02 g 10 mL 100701 01/20/25 15:12 EL **EET MID** Total/NA 8015B NM 100739 01/21/25 20:36 TKC Analysis 1 uL 1 uL **EET MID** Soluble 50 mL 100746 01/21/25 09:03 SI Leach DI Leach 4.99 g **EET MID** 300.0 01/21/25 18:08 CH Soluble Analysis 5 50 mL 50 mL 100761 **EET MID**

Client Sample ID: S-2 (1') Date Collected: 01/17/25 13:35

Date Received: 01/20/25 14:07

Lab Sample ID: 880-53406-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100657	01/20/25 14:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100620	01/20/25 17:42	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 17:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/21/25 20:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 20:52	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100746	01/21/25 09:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100761	01/21/25 18:15	CH	EET MID

Client Sample ID: S-2 (4.1')

Date Collected: 01/17/25 13:50 Date Received: 01/20/25 14:07

Lab Sample ID: 880-53406-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100657	01/20/25 14:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100620	01/20/25 18:03	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 18:03	SM	EET MID

Client Sample ID: S-2 (4.1')

Client: Crain Environmental

Project/Site: Lamunyon 23

Job ID: 880-53406-1 SDG: Lea Co, NM

Matrix: Solid

Lab Sample ID: 880-53406-4

Date Received: 01/20/25 14:07

Date Collected: 01/17/25 13:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100900	01/21/25 21:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 21:06	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100746	01/21/25 09:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100761	01/21/25 18:23	CH	EET MID

Client Sample ID: S-3 (1') Lab Sample ID: 880-53406-5 Date Collected: 01/17/25 13:55 **Matrix: Solid**

Date Received: 01/20/25 14:07

Batch Dil Initial Final **Batch** Prepared Batch **Prep Type** Method Amount Amount Number Type Run **Factor** or Analyzed **Analyst** Lab Total/NA 5035 Prep 5.05 g 100657 01/20/25 14:54 EL **EET MID** 5 mL Total/NA Analysis 8021B 1 5 mL 5 mL 100620 01/20/25 18:23 EL **EET MID** Total/NA Total BTEX Analysis 1 100783 01/20/25 18:23 SM **EET MID** Total/NA 8015 NM 100900 01/21/25 21:21 SM Analysis **EET MID** Total/NA Prep 8015NM Prep 10.00 g 10 mL 100701 01/20/25 15:12 EL **EET MID** Total/NA 8015B NM 100739 01/21/25 21:21 TKC Analysis 1 uL 1 uL **EET MID** 4.97 g 01/21/25 09:03 SI Soluble Leach DI Leach 50 mL 100746 **EET MID** Analysis 300.0 50 mL 50 mL 100761 01/21/25 18:30 CH **EET MID** Soluble 5

Client Sample ID: S-3 (4.1') Lab Sample ID: 880-53406-6 Date Collected: 01/17/25 14:10 **Matrix: Solid**

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	100657	01/20/25 14:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100620	01/20/25 18:43	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 18:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/21/25 21:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 21:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100746	01/21/25 09:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100761	01/21/25 18:37	CH	EET MID

Client Sample ID: S-4 (1') Lab Sample ID: 880-53406-7 Date Collected: 01/17/25 14:15 **Matrix: Solid**

Date Received: 01/20/25 14:07

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100657	01/20/25 14:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100620	01/20/25 19:04	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 19:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/21/25 21:50	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.06 g 1 uL	10 mL 1 uL	100701 100739	01/20/25 15:12 01/21/25 21:50	EL TKC	EET MID EET MID

Job ID: 880-53406-1

SDG: Lea Co, NM

Client Sample ID: S-4 (1')

Client: Crain Environmental

Project/Site: Lamunyon 23

Lab Sample ID: 880-53406-7

Matrix: Solid

Date Collected: 01/17/25 14:15 Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100872	01/22/25 17:01	CH	EET MID

Lab Sample ID: 880-53406-8

Matrix: Solid

Client Sample ID: S-4 (4.1') Date Collected: 01/17/25 14:30 Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100657	01/20/25 14:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100620	01/20/25 19:24	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 19:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/21/25 22:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 22:04	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100872	01/22/25 17:19	CH	EET MID

Lab Sample ID: 880-53406-9 Client Sample ID: S-5 (1')

Date Collected: 01/17/25 14:35 **Matrix: Solid** Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100657	01/20/25 14:54	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100620	01/20/25 19:45	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 19:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/21/25 22:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 22:20	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100872	01/22/25 17:24	CH	EET MID

Client Sample ID: S-5 (4.1') Lab Sample ID: 880-53406-10 Date Collected: 01/17/25 14:50 Matrix: Solid

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100656	01/20/25 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100621	01/20/25 17:06	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 17:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/21/25 22:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 22:34	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100872	01/22/25 17:30	CH	EET MID

Job ID: 880-53406-1 SDG: Lea Co, NM

Client Sample ID: S-6 (1')

Client: Crain Environmental

Project/Site: Lamunyon 23

Lab Sample ID: 880-53406-11

Matrix: Solid

Date Collected: 01/17/25 14:55 Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	100656	01/20/25 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100621	01/20/25 17:26	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 17:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/21/25 23:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 23:03	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100872	01/22/25 17:36	CH	EET MID

Client Sample ID: S-6 (4.1') Lab Sample ID: 880-53406-12

Date Collected: 01/17/25 15:10 **Matrix: Solid** Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	100656	01/20/25 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100621	01/20/25 17:47	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 17:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/21/25 23:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 23:19	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100872	01/22/25 17:54	CH	EET MID

Client Sample ID: S-7 (1') Lab Sample ID: 880-53406-13 Date Collected: 01/17/25 15:15 **Matrix: Solid**

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100656	01/20/25 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100621	01/20/25 18:07	EL	EET MIC
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 18:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/21/25 23:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 23:33	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100872	01/22/25 18:00	CH	EET MI

Client Sample ID: S-7 (4.1') Lab Sample ID: 880-53406-14 Date Collected: 01/17/25 15:30

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100656	01/20/25 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100621	01/20/25 18:28	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 18:28	SM	EET MID

Eurofins Midland

Matrix: Solid

Job ID: 880-53406-1

SDG: Lea Co, NM

Lab Sample ID: 880-53406-14

Matrix: Solid

Client Sample ID: S-7 (4.1') Date Collected: 01/17/25 15:30

Client: Crain Environmental

Project/Site: Lamunyon 23

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100900	01/21/25 23:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/21/25 23:48	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100872	01/22/25 18:06	CH	EET MID

Lab Sample ID: 880-53406-15 Client Sample ID: S-8 (1') Date Collected: 01/17/25 15:35 **Matrix: Solid**

Date Received: 01/20/25 14:07

Batch Dil Initial Final **Batch** Prepared Batch **Prep Type** Method Amount Amount Number Type Run **Factor** or Analyzed **Analyst** Lab Total/NA 5035 100656 Prep 5.01 g 01/20/25 14:49 EL **EET MID** 5 mL Total/NA Analysis 8021B 1 5 mL 5 mL 100621 01/20/25 18:48 EL **EET MID** Total/NA Total BTEX Analysis 1 100783 01/20/25 18:48 SM **EET MID** Total/NA 8015 NM 100900 01/22/25 00:03 SM Analysis **EET MID** Total/NA Prep 8015NM Prep 10.05 g 10 mL 100701 01/20/25 15:12 EL **EET MID** Total/NA 8015B NM 100739 01/22/25 00:03 TKC Analysis 1 uL 1 uL **EET MID** 5.03 g Soluble Leach DI Leach 50 mL 100804 01/21/25 15:40 SA **EET MID** Analysis 300.0 50 mL 100872 01/22/25 18:12 CH Soluble 1 50 mL **EET MID**

Lab Sample ID: 880-53406-16 Client Sample ID: S-8 (4.1') Date Collected: 01/17/25 15:50 **Matrix: Solid**

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	100656	01/20/25 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100621	01/20/25 19:09	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 19:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 00:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/22/25 00:18	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100872	01/22/25 18:18	CH	EET MID

Client Sample ID: S-9 (1') Lab Sample ID: 880-53406-17 Date Collected: 01/17/25 15:55

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100656	01/20/25 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100621	01/20/25 19:29	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 19:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 00:32	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.06 g 1 uL	10 mL 1 uL	100701 100739	01/20/25 15:12 01/22/25 00:32	EL TKC	EET MID EET MID

Eurofins Midland

Matrix: Solid

Job ID: 880-53406-1

SDG: Lea Co, NM

Client Sample ID: S-9 (1')

Client: Crain Environmental

Project/Site: Lamunyon 23

Lab Sample ID: 880-53406-17

Matrix: Solid

Date Collected: 01/17/25 15:55 Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100872	01/22/25 18:24	CH	EET MID

Lab Sample ID: 880-53406-18

Matrix: Solid

Client Sample ID: S-9 (4.1') Date Collected: 01/17/25 16:10

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100656	01/20/25 14:49	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100621	01/20/25 19:50	EL	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 19:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 00:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/22/25 00:46	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100872	01/22/25 18:41	CH	EET MID

Lab Sample ID: 880-53406-19 Client Sample ID: S-10 (1')

Date Collected: 01/17/25 16:15 **Matrix: Solid** Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	100672	01/20/25 14:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100618	01/20/25 18:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 18:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 01:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/22/25 01:02	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100872	01/22/25 18:47	CH	EET MID

Client Sample ID: S-10 (4.1') Lab Sample ID: 880-53406-20 Date Collected: 01/17/25 16:30 Matrix: Solid

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100672	01/20/25 14:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100618	01/20/25 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 01:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100701	01/20/25 15:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100739	01/22/25 01:15	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100804	01/21/25 15:40	SA	EET MI
Soluble	Analysis	300.0		1	50 mL	50 mL	100872	01/22/25 19:05	CH	EET MID

Project/Site: Lamunyon 23 Client Sample ID: S-11 (1')

Client: Crain Environmental

Lab Sample ID: 880-53406-21

Matrix: Solid

Date Collected: 01/17/25 16:35 Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100672	01/20/25 14:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100618	01/20/25 19:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 19:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 18:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 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 18:16	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100872	01/22/25 19:11	CH	EET MID

Client Sample ID: S-11 (4.1')

Date Collected: 01/17/25 16:50

Date Received: 01/20/25 14:07

Lab Sample ID: 880-53406-22

Lab Sample ID: 880-53406-23

Lab Sample ID: 880-53406-24

Matrix: Solid

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount **Analyst** Lab Total/NA Prep 5035 100672 01/20/25 14:50 EL EET MID 5.01 g 5 mL Total/NA 8021B 5 mL 100618 01/20/25 19:41 MNR **EET MID** Analysis 5 mL 1 Total/NA Total BTEX Analysis 100783 01/20/25 19:41 SM **EET MID** 1 Total/NA 8015 NM **EET MID** Analysis 1 100900 01/22/25 19:00 SM Total/NA Prep 8015NM Prep 10.03 g 10 mL 100702 01/20/25 15:15 EL **EET MID** Total/NA 8015B NM 1 uL 100857 01/22/25 19:00 TKC Analysis 1 uL **EET MID** Soluble 5.01 g 50 mL 100804 01/21/25 15:40 SA Leach DI Leach **EET MID** Soluble 300.0 50 mL 100872 01/22/25 19:17 CH Analysis 5 50 mL **EET MID**

Client Sample ID: S-12 (1')

Date Collected: 01/17/25 15:55

Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100672	01/20/25 14:50	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100618	01/20/25 20:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/20/25 20:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 19:16	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 19:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100872	01/22/25 19:22	CH	EET MID

Client Sample ID: S-12 (4.1')

Date Collected: 01/17/25 17:10

Date Received: 01/20/25 14:07

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 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/21/25 18:24	SM	EET MID

Eurofins Midland

Matrix: Solid

Client Sample ID: S-12 (4.1')

Lab Sample ID: 880-53406-24

Matrix: Solid

Date Collected: 01/17/25 17:10 Date Received: 01/20/25 14:07

Client: Crain Environmental

Project/Site: Lamunyon 23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100900	01/22/25 19:30	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 19:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	100872	01/22/25 19:28	CH	EET MID

Lab Sample ID: 880-53406-25

Matrix: Solid

Date Collected: 01/17/25 17:15 Date Received: 01/20/25 14:07

Client Sample ID: S-13 (1')

Batch Batch Dil Initial Final **Batch** Prepared **Prep Type** Method Amount Amount Number Type Run **Factor** or Analyzed **Analyst** Lab Total/NA Prep 5035 100710 EET MID 4.98 g 01/20/25 16:16 AA 5 mL Total/NA Analysis 8021B 1 5 mL 5 mL 100623 01/21/25 00:42 MNR **EET MID** Total/NA Total BTEX Analysis 1 100783 01/21/25 00:42 SM **EET MID** Total/NA 8015 NM 100900 01/22/25 19:46 SM Analysis **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10 mL 100702 01/20/25 15:15 EL **EET MID** Total/NA 8015B NM 100857 01/22/25 19:46 TKC Analysis 1 uL 1 uL **EET MID** 01/21/25 15:40 SA Soluble Leach DI Leach 5.03 g50 mL 100804 **EET MID** Analysis 300.0 50 mL 50 mL 100872 01/22/25 19:34 CH **EET MID** Soluble 1

Client Sample ID: S-13 (4.1')

Date Collected: 01/17/25 17:25

Date Received: 01/20/25 14:07

Lab Sample ID: 880-53406-26

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100710	01/20/25 16:16	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100623	01/21/25 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/21/25 01:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 20:00	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 20:00	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100804	01/21/25 15:40	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100872	01/22/25 19:40	CH	EET MID

Client Sample ID: S-14 (1')

Date Collected: 01/17/25 17:30

Date Received: 01/20/25 14:07

0872	01/22/25 19:40 C	H EET MID
La	ab Sample ID:	880-53406-27 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100710	01/20/25 16:16	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100623	01/21/25 01:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/21/25 01:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 20:14	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g 1 uL	10 mL 1 uL	100702 100857	01/20/25 15:15 01/22/25 20:14	EL TKC	EET MID EET MID

Job ID: 880-53406-1

SDG: Lea Co, NM

Client Sample ID: S-14 (1')

Date Received: 01/20/25 14:07

Client: Crain Environmental

Project/Site: Lamunyon 23

Date Collected: 01/17/25 17:30

Lab Sample ID: 880-53406-27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
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	01/22/25 22:07	CH	EET MID

Lab Sample ID: 880-53406-28 Client Sample ID: S-14 (4.1')

Date Collected: 01/17/25 17:40 **Matrix: Solid** Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100710	01/20/25 16:16	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100623	01/21/25 01:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/21/25 01:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 20:29	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 20:29	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 22:24	CH	EET MID

Lab Sample ID: 880-53406-29 Client Sample ID: S-15 (1')

Date Collected: 01/17/25 17:45 **Matrix: Solid** Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100710	01/20/25 16:16	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100623	01/21/25 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/21/25 02:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 20:43	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 20:43	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	01/22/25 22:30	CH	EET MID

Lab Sample ID: 880-53406-30 Client Sample ID: S-15 (4.1')

Date Collected: 01/17/25 17:55 Matrix: Solid Date Received: 01/20/25 14:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	100710	01/20/25 16:16	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100623	01/21/25 02:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100783	01/21/25 02:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			100900	01/22/25 20:59	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 20:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 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 22:35	CH	EET MID

Lab Chronicle

Client: Crain Environmental Project/Site: Lamunyon 23

Job ID: 880-53406-1 SDG: Lea Co, NM

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 23

Job ID: 880-53406-1

SDG: Lea Co, NM

Laboratory: Eurofins Midland

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

uthority	Progra	am	Identification Number	Expiration Date
exas	NELAI	P	T104704400	06-30-25
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,	s are included in this repo does not offer certification	•	not certified by the governing authori	ty. This list may inclu
,	•	•	not certified by the governing authori Analyte	ty. This list may inclu
for which the agency	does not offer certification		, , ,	ity. This list may inclu

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Method Summary

Client: Crain Environmental Project/Site: Lamunyon 23

Job ID: 880-53406-1 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

Eurofins Midland

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Sample Summary

Client: Crain Environmental Project/Site: Lamunyon 23

880-53406-30

S-15 (4.1')

Job ID: 880-53406-1

SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-53406-1	S-1 (1')	Solid	01/17/25 13:15	01/20/25 14:07	1'
880-53406-2	S-1 (4.1')	Solid	01/17/25 13:30	01/20/25 14:07	4.1'
880-53406-3	S-2 (1')	Solid	01/17/25 13:35	01/20/25 14:07	1'
880-53406-4	S-2 (4.1')	Solid	01/17/25 13:50	01/20/25 14:07	4.1'
880-53406-5	S-3 (1')	Solid	01/17/25 13:55	01/20/25 14:07	1'
880-53406-6	S-3 (4.1')	Solid	01/17/25 14:10	01/20/25 14:07	4.1'
880-53406-7	S-4 (1')	Solid	01/17/25 14:15	01/20/25 14:07	1'
880-53406-8	S-4 (4.1')	Solid	01/17/25 14:30	01/20/25 14:07	4.1'
880-53406-9	S-5 (1')	Solid	01/17/25 14:35	01/20/25 14:07	1'
880-53406-10	S-5 (4.1')	Solid	01/17/25 14:50	01/20/25 14:07	4.1'
880-53406-11	S-6 (1')	Solid	01/17/25 14:55	01/20/25 14:07	1'
880-53406-12	S-6 (4.1')	Solid	01/17/25 15:10	01/20/25 14:07	4.1'
880-53406-13	S-7 (1')	Solid	01/17/25 15:15	01/20/25 14:07	1'
880-53406-14	S-7 (4.1')	Solid	01/17/25 15:30	01/20/25 14:07	4.1'
880-53406-15	S-8 (1')	Solid	01/17/25 15:35	01/20/25 14:07	1'
880-53406-16	S-8 (4.1')	Solid	01/17/25 15:50	01/20/25 14:07	4.1'
880-53406-17	S-9 (1')	Solid	01/17/25 15:55	01/20/25 14:07	1'
880-53406-18	S-9 (4.1')	Solid	01/17/25 16:10	01/20/25 14:07	4.1'
880-53406-19	S-10 (1')	Solid	01/17/25 16:15	01/20/25 14:07	1'
880-53406-20	S-10 (4.1')	Solid	01/17/25 16:30	01/20/25 14:07	4.1'
880-53406-21	S-11 (1')	Solid	01/17/25 16:35	01/20/25 14:07	1'
880-53406-22	S-11 (4.1')	Solid	01/17/25 16:50	01/20/25 14:07	4.1'
880-53406-23	S-12 (1')	Solid	01/17/25 15:55	01/20/25 14:07	1'
880-53406-24	S-12 (4.1')	Solid	01/17/25 17:10	01/20/25 14:07	4.1'
880-53406-25	S-13 (1')	Solid	01/17/25 17:15	01/20/25 14:07	1'
880-53406-26	S-13 (4.1')	Solid	01/17/25 17:25	01/20/25 14:07	4.1'
880-53406-27	S-14 (1')	Solid	01/17/25 17:30	01/20/25 14:07	1'
880-53406-28	S-14 (4.1')	Solid	01/17/25 17:40	01/20/25 14:07	4.1'
880-53406-29	S-15 (1')	Solid	01/17/25 17:45	01/20/25 14:07	1'

Solid

01/17/25 17:55 01/20/25 14:07 4.1'

		of Custody	20 10		RRC Superfund		TRRP Level IV	Other:	Preservative Codes	DI Water: H ₂ O		HNO 3: HN		NARIS	NaSO 3	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments										J V Zn 7471			Date/Time		
	Work	880-53406 Chain of Custody	WWW.	Work Order Comments	ram: UST/PST PRP Brownfields	State of Project: NM	Reporting: Level Level PST/UST	Deliverables: EDD ADaPT	Pre	None: NO	Cool: Cool	HCL: HC	2204:12	N N N N N N N N N N N N N N N N N N N	Na ₂ S ₂ O ₃ : NaSO	Zn Acetai	NaOH+As	San										Ni K Se Ag SiO ₂ Na Sr Tl Sn L Hg: 1631/245.1/7470/		drivens ontrol y negotlated.	Received by: (Signature)		
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, Carisbad, NM (575) 988-3199		Billy Moore	FAET	11757 Katy Frwy Stp. 725 State	17079		ANALYSIS REQUEST					W			C He	40	X X								→ →	A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Italian Charaktan di Abit de manana and collinari betwarm for consideration and administration of control to the control to th	rooce, sgravure of the bocument and reimposiment of samples and purposes from Latinia Company to caronic across, it cases to standard tents and controlled of service. Eurofins Xenco will be lable 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 negotisted.	Date/Time Relinquished by: (Signature)	25 MB:	4
Cha	Houston, TX (28 Midland, TX (432) 7	EL Paso, TX (915) Hobbs, NM (575)		Bill to: (if different)	Company Name:	Address:	City, State ZIP:	Ciroly. Crain@gmail.com	puno	Rush Code		ed by 4:30pm	:ers	1 PC	Fared	7.7	2.6	Depth Grab/ # of	_	4.1.	, (4.1.),	4.1'		7.1.	4.1' \		in the comment of the section	bility for any losses or expenses each sample submitted to Eurol		50/00/1	
	Environment Testing						TX 79761	7244 Email:	23 Tum Around	Routine	Due Date:	TAT starts the day received by the lab, if received by 4:30pm	Vot No Wet Ico.	Nometer I	Correction Factor:	Temperature Reading:	Corrected Temperature:	Date Time Sampled Sampled	26/11/1	1 1330	1335	1350	1355				1450	8RCR.	and the constitution of the contraction of the cont	impes constitutes a variat partitions order in mples and shall not assume any responsiti ed to each project and a charge of \$5 for	Received by: (Signature)	1	
3.3	Enviro	Xenco		ger: Cindy Cain)	2925 6. 17	Dolessa,	- 1	COVCUMOL		on: Lea Co., NM	ne: Cinh Cain	CEIDT	+) %	dy Seals: Yes No N/A	ers:	Sample Identification Matrix	3	4.1.)	(1)	(4.1.)	<u>:</u>	4.1.)		(-1, -1, -1, -1, -1, -1, -1, -1, -1, -1,	4.1.)	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	of the decreased and collections of the	or the document and reinquestiment of satisfactor will be liable only for the cost of satisfactor Aminimum charge of \$85.00 will be applied.	Relinquished by: (Signature)	indy (sain	0
				Project Manager:	Company Name:	Address:	City, State ZIP:	Phone:	Project Name:	Project Number:	Project Location:	Sampler's Name:	CAMPI E PECEIDT	Samples Beceived Intact:	Cooler Custody Seals:	Sample Custody Seals:	Total Containers:	Samp	5.1/	5-1	5-21	5-2	5-3 (5-3	5-4	4-7	5-5	Total 200.7 / 6010 Circle Method(s) ar	Modern Clementum	of service. Eurofin of Eurofins Xenco	Relinquis	7	3

Revised Date: 08/25/2020 Rev. 2020.2

Date/Time

Received by: (Signature)

Chain of Custody

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

Environment Testing

eurofins :

Xenco

Work Order No:

	4							www.xenco.com	rage C	121
Project Manager:	inth Crain			Bill to: (if different)	ıt)	Billy Moore	re re	Work Order Comments	Comments	
Company Name:	hair Grira	oviranmental		Company Name:		11757 Katy Frw, Sto 725	W. 54 725	Program: UST/PST PRP Br	Brownfields ☐ RRC ☐ Supe	Superfund
Address:	2935 €. 17	17th St.		Address:		Houston, TX 17079	77079	State of Project: NM		
City, State ZIP:	Odessa, TX	TX 79761		City, State ZIP:		FAET		Reporting: Level II	PST/UST TRRP Leve	□ ≥l le
Phone:	1	244	Email:	Cirdy. Crain @	rain			Deliverables: EDD 🗌 AD	ADaPT ☐ Other:	
Project Name:	Ch commen 23	3	Tum	Turn Around			ANALYSIS REQUEST	JEST	Preservative Codes	
Project Number:			Koutine	Rush	Code				None: NO DI Water: H ₂ O	er: H ₂ O
Project Location:	Lea Co. NM		Due Date:						Cool: Cool MeOH: Me	Me
Sampler's Name:	indy Crain		TAT starts the	TAT starts the day received by					HCL: HC HNO 3: HN	Z.
PO #:			the lab, if rece	ived by 4:30pm					H ₂ 50 4: H ₂ NaOH: Na	la e
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No	eters				H ₃ PO ₄ : HP	
Samples Received Intact:	Yes No	Thermometer ID:	er ID:		mer				NaHSO 4: NABIS	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	actor:		ρq				Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	e Reading:			7			Zn Acetate+NaOH: Zn	
Total Containers:		Corrected T	Corrected Temperature:						NaOH+Ascorbic Acid: SAPC	
Sample Identification	on Matrix	Date Sampled	Time	Depth Grab/	# of Cont	40			Sample Comments	
5-6(1.)	S	1/17/25	1455	7: 0		X				
5-6 (4.1.)	1	_	1510	4.1.	_					
5-7 (1.)			1515),						
5-7 (4.1.)			1530	4.1.						
(1) 8-5			1535	11						
5-8 (4.1.)			1550	4.1"						
5-9 (11)			1555	1,1						
5-9 (4.11)			16,10	4.1.						
5-10 (11)			1615	1,1						
5-10 (4.1.)	→	→	1630	4.),	>	^ ^ ^				
Total 200.7 / 6010	200.8 / 6020:	8	3CRA 13PP	8RCRA 13PPM Texas 11	Al Sb /	As Ba Be B Cd Ca	Cr Co Cu Fe Pb M	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mq Mn Mo Ni K Se Ag SiO, Na Sr Tl Sn U V Zn	r TI Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed	Metal(s) to be an		TCLP / SI	LP 6010 : 8R	CRA Sb	TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Cu Pb Mn Mo Ni	Se Ag TI U Hg: 1631/245.1/7470 /7471	1 / 7470 / 7471	
		,								

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 emforced unless previously negotiated otice: 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 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 Relinquished by: (Signature)

Date/Time Relinquished by: (Signature)

الماسم ماء (ماماسمام)	ייברבוויבת בין: (בופון מימובי)	
who said	1	1200

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Revised Date: 08/25/2020 Rev. 2020.

Date/Time

Received by: (Signature)

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Date/Time

Received by: (Signature)

Relingatished by: (Signature)

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for 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

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

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Chain of Custody

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

Environment Testing

eurofins 🕏

Xenco

Work Order No:

Project Manager:												
	Lindy Cain	7		Bill to: (if different)	ent)	Billy	Moore	ce ce	Work	Work Order Comments	mments	
Company Name:	Cain Environmenta	mental		Company Name:	.e:	FAE	H		Program: UST/PST □ PR	PRP Brow	Brownfields ☐ RRC ☐	Superfund
Address:	2925 6. 17	17x St.		Address:		17571	Kon h	1757 Kay Frwy, Ste 725	State of Project: NM			
City, State ZIP:	Dolesta TX	7976	1	City, State ZIP:		House	Housson, TX	77077	Reporting: Level Level PST/UST TRRP Level IV	el III	ST/UST TRRE	Level IV
Phone:	HAZT - 1441 (272)	7344	Email:	Cirdy	Crair	Ciraly. Crain @ gmail. com	vi).com		Deliverables: EDD	ADaPT	T Other:	
Project Name:	Laminor 23	23	Turn	Turn Around				ANALYSIS REQUEST	QUEST		Preservative Codes	ve Codes
Project Number:			Routine	Rush	Pres. Code						None: NO	DI Water: H ₂ O
Project Location:	Lea Co. NM		Due Date:		-						Cool: Cool	MeOH: Me
Sampler's Name:	Circle Cain		TAT starts the	day received by							HCL: HC	HNO 3: HN
PO #:	- / -		the lab, if rece	the lab, if received by 4:30pm							H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No	rieters						H₃PO ₄: HP	
Samples Received Intact	ct: Yes No	Thermometer ID:	er ID:		mei	W !	9				NaHSO 4: NABIS	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-actor:		Pa	910	50				Na ₂ S ₂ O ₃ : NaSO	3
Sample Custody Seals:	Yes No N/A	Temperature Reading:	re Reading:				יאלו.				Zn Acetate+NaOH: Zn	H: Zn
Total Containers:		Corrected T	Corrected Temperature:				الا				NaOH+Ascorbic Acid: SAPC	Acid: SAPC
Sample Identification	fication Matrix	Date Sampled	Time	Depth Grab/	b/ # of p Cont	AT	40				Sample Comments	omments
5-11 (1.)	5	1/1/25	1635) , (X	X					
5-11 (4.1)		_	\vdash	4.1'	_	-						
5-12 (11)			1655	1.								
5-12 (4.)	(1710	4.1								
5-13 (11)			1715	11								
5-13 (4.1)			1725	4.1.								
5-14 (11)			1730									
5-14 74.	(1)		1740	4.1.								
5-15 (1)			1745).								
7	4.1.)	>		4.1.	→ ·	→ →	>					
Total 200.7 / 6010	200.8 / 6020:		8RCRA 13PPM Texas 11	M Texas 11		As Ba Be	B Cd Ca	Cr Co Cu Fe Pb	Ni K Se	2 Na Sr	TI Sn U V Zr	
Circle Method(s) a	Circle Method(s) and Metal(s) to be analyzed	alyzed	TCLP / SI	2LP 6010 : 8	RCRA S	b As Ba Be	Cd Cr	TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U		1/245.1/	Hg: 1631 / 245.1 / 7470 / 7471	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/29/2025 10:03:50 AM

JOB DESCRIPTION

Lamunyan #23 Lea CO, NM

JOB NUMBER

880-53650-1

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 1/29/2025 10:03:50 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 Client: Crain Environmental
Project/Site: Lamunyan #23
Laboratory Job ID: 880-53650-1
SDG: Lea CO, NM

Table of Contents

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Definitions/Glossary

Client: Crain Environmental Job ID: 880-53650-1
Project/Site: Lamunyan #23 SDG: Lea CO, NM

Qualifiers

HPLC/IC

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 Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** Detection Limit (DoD/DOE) DL 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) Estimated Detection Limit (Dioxin) EDL

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

Minimum Level (Dioxin)

ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit
NC Not Calculated

NO NOI 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 #23

Job ID: 880-53650-1

Job ID: 880-53650-1 Eurofins Midland

Job Narrative 880-53650-1

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

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Job ID: 880-53650-1

Lab Sample ID: 880-53650-1

Lab Sample ID: 880-53650-2

Lab Sample ID: 880-53650-3

Lab Sample ID: 880-53650-4

Lab Sample ID: 880-53650-5

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

SDG: Lea CO, NM

Client Sample ID: S-3 (2')

Client: Crain Environmental Project/Site: Lamunyan #23

Date Collected: 01/17/25 14:00 Date Received: 01/24/25 15:35

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL D Dil Fac Unit Prepared Analyzed 10.0 01/29/25 01:17 Chloride 356 mg/Kg

Client Sample ID: S-3 (3')

Date Collected: 01/17/25 14:05 Date Received: 01/24/25 15:35

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared 9.98 01/29/25 01:23 807 mg/Kg Chloride

Client Sample ID: S-6 (2')

Date Collected: 01/17/25 15:00 Date Received: 01/24/25 15:35

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Chloride 9.92 01/29/25 01:40 96.8 mg/Kg

Client Sample ID: S-6 (3')

Date Collected: 01/17/25 15:05 Date Received: 01/24/25 15:35

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 104 9.92 mg/Kg 01/29/25 01:46

Client Sample ID: S-8 (2')

Date Collected: 01/17/25 15:40

Date Received: 01/24/25 15:35

Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier MDL RL Unit D Prepared Analyzed Dil Fac 9.90 Chloride 01/29/25 01:52 68.7 mg/Kg

Client Sample ID: S-8 (3')

Date Collected: 01/17/25 15:45

Date Received: 01/24/25 15:35

Released to Imaging: 5/14/2025 10:45:18 AM

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 9.96 01/29/25 01:58 Chloride 15.0 mg/Kg

Eurofins Midland

Lab Sample ID: 880-53650-6 **Matrix: Solid**

QC Sample Results

Client: Crain Environmental Job ID: 880-53650-1 Project/Site: Lamunyan #23 SDG: Lea CO, NM

RL

10.0

Spike

Added

250

MDL Unit

LCS LCS

LCSD LCSD

Result Qualifier

269.2

269.0

Result Qualifier

mg/Kg

Unit

mg/Kg

D

D

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101325/1-A

Matrix: Solid

Analysis Batch: 101377

MB MB

Analyte Result Qualifier

Chloride <10.0 U Lab Sample ID: LCS 880-101325/2-A

Matrix: Solid Analysis Batch: 101377

Analyte Chloride

Lab Sample ID: LCSD 880-101325/3-A **Matrix: Solid**

Analysis Batch: 101377

Spike Analyte Added Chloride 250 Client Sample ID: Method Blank **Prep Type: Soluble**

Dil Fac Prepared Analyzed 01/29/25 00:30

Client Sample ID: Lab Control Sample

%Rec

Limits

Prep Type: Soluble

mg/Kg 108 90 - 110

%Rec

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

%Rec RPD Unit

Limits **RPD** Limit 108 90 - 110 20

QC Association Summary

Client: Crain Environmental Job ID: 880-53650-1
Project/Site: Lamunyan #23 SDG: Lea CO, NM

HPLC/IC

Leach Batch: 101325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53650-1	S-3 (2')	Soluble	Solid	DI Leach	
880-53650-2	S-3 (3')	Soluble	Solid	DI Leach	
880-53650-3	S-6 (2')	Soluble	Solid	DI Leach	
880-53650-4	S-6 (3')	Soluble	Solid	DI Leach	
880-53650-5	S-8 (2')	Soluble	Solid	DI Leach	
880-53650-6	S-8 (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
880-53650-1	S-3 (2')	Soluble	Solid	300.0	101325
880-53650-2	S-3 (3')	Soluble	Solid	300.0	101325
880-53650-3	S-6 (2')	Soluble	Solid	300.0	101325
880-53650-4	S-6 (3')	Soluble	Solid	300.0	101325
880-53650-5	S-8 (2')	Soluble	Solid	300.0	101325
880-53650-6	S-8 (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

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Client: Crain Environmental Project/Site: Lamunyan #23 Job ID: 880-53650-1

SDG: Lea CO, NM

Lab Sample ID: 880-53650-1

Matrix: Solid

Date Collected: 01/17/25 14:00 Date Received: 01/24/25 15:35

Client Sample ID: S-3 (2')

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 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 01:17	CH	EET MID

Client Sample ID: S-3 (3') Lab Sample ID: 880-53650-2

Date Collected: 01/17/25 14:05 Date Received: 01/24/25 15:35

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 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 01:23	CH	EET MID

Client Sample ID: S-6 (2') Lab Sample ID: 880-53650-3

Date Collected: 01/17/25 15:00 Matrix: Solid

Date Received: 01/24/25 15:35

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 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 01:40	CH	EET MID

Client Sample ID: S-6 (3') Lab Sample ID: 880-53650-4

Date Collected: 01/17/25 15:05 Date Received: 01/24/25 15:35 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 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 01:46	CH	EET MID

Client Sample ID: S-8 (2') Lab Sample ID: 880-53650-5 Date Collected: 01/17/25 15:40

Date Received: 01/24/25 15:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 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 01:52	CH	EET MID

Client Sample ID: S-8 (3') Lab Sample ID: 880-53650-6 Date Collected: 01/17/25 15:45 **Matrix: Solid**

Date Received: 01/24/25 15:35

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab DI Leach Soluble Leach 5.02 g 50 mL 101325 01/27/25 16:49 SA **EET MID** 300.0 50 mL 50 mL 101377 Soluble Analysis 01/29/25 01:58 **EET MID**

Laboratory References:

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

Eurofins Midland

Matrix: Solid

Accreditation/Certification Summary

Client: Crain Environmental Job ID: 880-53650-1
Project/Site: Lamunyan #23 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

Eurofins Midland

Method Summary

Client: Crain Environmental Project/Site: Lamunyan #23

Job ID: 880-53650-1 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

Eurofins Midland

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Client Sample ID

S-3 (2')

S-3 (3')

S-6 (2')

S-6 (3')

S-8 (2')

S-8 (3')

Sample Summary

Collected

01/17/25 14:00

01/17/25 14:05

01/17/25 15:00

01/17/25 15:05

01/17/25 15:40

01/17/25 15:45

01/24/25 15:35

01/24/25 15:35

01/24/25 15:35 3'

3'

2'

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Client: Crain Environmental Project/Site: Lamunyan #23

Lab Sample ID

880-53650-1

880-53650-2

880-53650-3

880-53650-4

880-53650-5

880-53650-6

Job ID: 880-53650-1 SDG: Lea CO, NM

Received	Depth	
01/24/25 15:35	2'	
01/24/25 15:35	3'	
01/24/25 15:35	2'	

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Revised Date: 08/25/2020 Rev. 2020.2

Date/Time

Received by: (Signature)

Hg: 1631 / 245.1 / 7470 / 7471

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Work O 880-53650 Chain of Custody

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

eurofins :

Xenco

Project Manager:	indy Crain		Bill to: (if different)	Billy Moore	Work Order Comments	ients
Company Name:	20	stal	Company Name:	FAET	Program: UST/PST PRP Brownfield	Brownfields ☐ RRC ☐ Superfund ☐
Address:	15 G. 1741 S	<i>'</i>	Address:	11757 Katy Form Str. 725	State of Project: NM	
City, State ZIP:	Dalesso, TX 79761	9761	City, State ZIP:	Houston TX 77079	Reporting: Level III Level III PST/UST TRRP Level IV	JST TRRP Level IV
Phone: (57,	1575)441-7244	/ Email:	Cinty Crair	Cindy, Crais @ 4 mail. Con	Deliverables: EDD ☐ ADaPT ☐] Other:
Project Name:	Laminova # 23	Turn	Turn Around	ANALYSIS REQUEST	JEST	Preservative Codes
Project Number:		X Routine	Rush Code	44 44	None	None: NO DI Water: H ₂ O
Project Location: Lea 6.	Co. NM	Due Date:			Cool	Cool: Cool
Sampler's Name: Cody	2	TAT starts the	TAT starts the day received by the lab, if received by 4:30pm		H.So	HCL: HC HNO 3: HN
SAMPLE RECEIPT	Jergp Blank: Yes	No Wet Ice:	Yes No	sight	P. 2.	
Samples Received Intact:	1	Thermometer ID:	7:		NaH	NaHSO 4: NABIS
Cooler Custody Seals:	Yes No ACA Corr	Correction Factor:	9		Na ₂ S	Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No (N/A / Terr	Temperature Reading:	3.3	Pla	ZnA	Zn Acetate+NaOH: Zn
Total Containers:	Con	Corrected Temperature:	2	No.	NaOi	NaOH+Ascorbic Acid: SAPC
Sample Identification	Matrix San	Date Time Sampled Sampled	Depth Grab/ # of Cont	_		Sample Comments
5-3 (2)	5 1/1	1/17/25 1400	2, C.	X		
5-3 (3)	_	1405	3.			
5-6 (2)		1500	2.			
5-6 (3')		1505	3			
5-8(2)		1540	2,			
5-8 (3.)	>	1545	3.	>		

if 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 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 conclitions 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

TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

Circle Method(s) and Metal(s) to be analyzed

Relinquished by: (Signature) Date/Time 70 Received by: (Signature) Relinguished by: (Signature)

Page 13 of 14

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-53650-1

SDG Number: Lea CO, NM

Login Number: 53650 List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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

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Appendix D: Photographic Documentation

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APPENDIX D PHOTOGRAPHIC DOCUMENTATION - JANUARY 17, 2024 LAMUNYON #023







View of S-2.



View of S-3.



View of S-4.



View of S-5.



View of S-6.



View of S-7.



View of S-8.

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APPENDIX D PHOTOGRAPHIC DOCUMENTATION - JANUARY 17, 2024 LAMUNYON #023



View of S-9.





View of S-11.



View of S-12.



View of S-13.



View of S-14.



View of S-15.

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Phone: (505) 629-6116
Online Phone Directory
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 442764

QUESTIONS

Operator:	OGRID:
FAE II Operating LLC	329326
11757 Katy Freeway, Suite 725	Action Number:
Houston, TX 77079	442764
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2410851745
Incident Name	NAPP2410851745 C E LAMUNYON #023 @ 30-025-22402
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-22402] C E LAMUNYON #023

Location of Release Source	
Please answer all the questions in this group.	
Site Name	C E LAMUNYON #023
Date Release Discovered	04/16/2024
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: Equipment Failure Well Produced Water Released: 70 BBL Recovered: 60 BBL Lost: 10 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
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.	

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QUESTIONS, Page 2

Action 442764

QUESTIONS (continued)

Operator: FAE II Operating LLC	OGRID: 329326	
11757 Katy Freeway, Suite 725	Action Number:	
Houston, TX 77079	442764	
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
L		
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	T i	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of the dor if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releating OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 03/15/2025	

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QUESTIONS, Page 3

Action 442764

QUESTIONS (continued)

 Operator:
 OGRID:

 FAE II Operating LLC
 329326

 11757 Katy Freeway, Suite 725
 Action Number:

 Houston, TX 77079
 442764

 Action Type:
 [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Greater than 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Greater than 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	al extents of contamination been fully delineated	Yes
Was this release entirely o	ontained 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 CI B)	7500
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence 04/14/2025		
On what date will (or did) t	he final sampling or liner inspection occur	05/28/2025
On what date will (or was)	the remediation complete(d)	06/20/2025
What is the estimated surfa	ace area (in square feet) that will be reclaimed	81480
What is the estimated volu	me (in cubic yards) that will be reclaimed	3400
What is the estimated surfa	ace area (in square feet) that will be remediated	81480
What is the estimated volume (in cubic yards) that will be remediated 3400		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 442764

QUESTIONS (continued)

Operator:	OGRID:
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Houston, TX 77079	442764
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
Yes		
TNM-55-95 [fAB0000000061]		
Not answered.		

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

Name: Cindy Crain

I hereby agree and sign off to the above statement

Email: cindy.crain@gmail.com

Date: 03/15/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 442764

QUESTIONS (continued)

Operator:	OGRID:
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Houston, TX 77079	442764
	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 442764

QUESTIONS (continued)

Operator: FAE II Operating LLC	OGRID: 329326			
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Houston, TX 77079	442764			
	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 re	emediation steps have been completed.			
Requesting a remediation closure approval with this submission	No			

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CONDITIONS

Action 442764

CONDITIONS

Operator:	OGRID:
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Houston, TX 77079	442764
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	At this time, a variance request for the incident is not approved. The variance request must include a detailed statement explaining the need for a variance demonstrating that the variance will provide equal or better protection of fresh water, public health, and the environment.	5/14/2025
michael.buchanan	If there are no wells within ½ mile of the site and/or the data from that well is more than 25 years old, a borehole can be drilled to 51' or 101'. If water is not detected in the open borehole after a 72-hour period, the OCD will accept this as a viable determination of depth to groundwater. A copy of the driller's log is required.	5/14/2025
michael.buchanan	The remediation work plan is approved. All areas not reasonably needed for production or subsequent drilling operations must be reclaimed to contain a minimum of four feet of non- waste containing earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.	5/14/2025