



Remediation Summary and Closure Report

November 14, 2024

**West Eumont Unit #410
API No. 30-025-04387
Incident No. nAPP2404472013
Lea County, New Mexico**

Prepared For:

Forty Acres Energy, LLC
11757 Katy Freeway, Suite 725
Houston, Texas 77079

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

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

Cynthia K. Crain, P.G.



Table of Contents

1.0	INTRODUCTION.....	1
2.0	BACKGROUND.....	1
3.0	NMOCD CLOSURE CRITERIA	1
3.1	Groundwater Evaluation	2
3.2	Surface Features and Other Development	2
3.3	Wetlands, Floodplain, and Karst Geology	3
3.4	Closure Criteria Currently Assumed Applicable to the Site	3
4.0	SITE ASSESSMENT/CHARACTERIZATION RESULTS	4
4.1	Site Map	4
4.2	Depth to Groundwater.....	4
4.3	Wellhead Protection Area	4
4.4	Distance to Nearest Significant Watercourse	4
4.5	Summary of Remediation Activities	4
4.6	Laboratory Analytical Data Quality Assurance/Quality Control Results	5
5.0	REQUEST FOR CLOSURE.....	5
6.0	DISTRIBUTION.....	5

TABLES

Table 1: Summary of Soil Sample Analytical Results

FIGURES

Figure 1 – Site Location Map
 Figure 2 – Soil Sample Analytical Results Map
 Figure 3 – Wellhead Protection Area Map
 Figure 4 – National Wetlands Inventory Map
 Figure 5 – FEMA Floodplain Map
 Figure 6 – Karst Potential Map

APPENDICES

Appendix A – Release Notification and Corrective Action Form (NMOCD Form C-141)
 Appendix B – NMCD Correspondence
 Appendix C – Laboratory Reports and Chain-of-Custody Documentation
 Appendix D – Photographic Documentation
 Appendix E - Waste Manifests



1.0 Introduction

Crain Environmental (CE), on behalf of Forty Acres Energy, LLC (FAE), has prepared this *Remediation Summary and Closure Report* for the produced water and crude oil release at West Eumont Unit #410 (Site), located approximately 13 miles northwest of Eunice and approximately 15 miles southwest of Hobbs, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release point are 32.534475, -103.353035. 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 February 1, 2024, a release was discovered at a flow line located approximately 210 feet (') south of the West Eumont Unit #411 well, and approximately 1,075 feet north of the West Eumont Unit #410. As a result of corrosion of the flow line, approximately 15 barrels (bbls) of produced water and 15 bbls of crude oil were released. Immediately following the release, the area was secured, and the flow line was repaired. The released fluid flowed on the ground approximately 110 feet south from the release point, and surface impacts covered approximately 3,000 square feet. No free-standing fluid was 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 February 13, 2024, and Incident #nAPP2404472013 was assigned. An Initial Form C-141 (Release Notification Report) was submitted on February 20, 2024. Appendix A provides a copy of the C-141.

A *Site Characterization Report and Remediation Workplan* was submitted to the NMOCD on July 8, 2024, and was approved on July 16, 2024, with a Closure Report due by October 15, 2024. On October 14, 2024, FAE requested a 30-day extension on the Closure Report date. On October 15, 2024, the NMOCD approved an extension until November 14, 2024. The Remediation Summary and Closure Report is being submitted in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC). Appendix B provides a copy of the NMOCD correspondence.

3.0 NMOCD Closure Criteria

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

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



- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

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

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there are no water wells located within 1 mile of the Site. Based on the absence of water well data, the most stringent NMOCD Closure Criteria will apply to the Site.

3.2 Surface Features and Other Development

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
 - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
 - The topographic map (Figure 1) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
 - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
 - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
 - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.



- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
 - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
 - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

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

3.4 Closure Criteria Currently Assumed Applicable to the Site

The Closure Criteria applicable to the Site will be based on the estimated depth to groundwater, which dictates the most stringent regulatory guidelines typically associated with groundwater depths of less than fifty (50) feet below ground surface (bgs). A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

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

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



4.0 Site Assessment/Characterization Results

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

4.1 Site Map

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

4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown. During investigation activities, a maximum depth of 4.2 feet bgs was reached, at which groundwater was not encountered.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. No known water wells are located within 0.5 mile of the Site. 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 Summary of Remediation Activities

Following approval of the *Site Characterization Report and Remediation Workplan* on July 16, 2024, excavation was continued until confirmation samples collected from the bottom and sidewalls on August 27 and October 15, 2024, reported total petroleum hydrocarbons (TPH) and chloride concentrations below the NMOCD Closure Criteria.

All confirmation samples were collected pursuant to 19.15.29.12(D) NMAC, and were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Eurofins Environmental Testing (Eurofins) in Midland, Texas under proper chain-of-custody control. All samples were analyzed for total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, and for chlorides by EPA Method 300. As approved in the *Site Characterization Report and Remediation Workplan*, analyses were not conducted for Benzene and BTEX.

Table 1 provides a summary of the laboratory results, and sample locations are provided on Figure 2. The laboratory reports and chain-of-custody documentation are provided in Appendix C. Photographic documentation is provided in Appendix D.



Referring to Table 1, concentrations of TPH, Benzene, BTEX, and chlorides were reported below the NMOCD Closure Criteria in all samples.

All affected soil has been excavated, and an additional 120 cubic yards (cy) were hauled to disposal at J&L Landfarm. Waste Manifests are provided in Appendix E.

Upon NMOCD approval of this Closure Report, 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.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Job Numbers 880-47908-1 and 880-4990101 generated by Eurofins in Midland, Texas, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided in Appendix C.

5.0 Request for Closure

A total of 800 cubic yards of soil was excavated and hauled to disposal at Cooper Landfarm and J&L Landfarm. All confirmation samples collected from the bottom and sidewalls of the excavation reported TPH, Benzene, BTEX, and chloride concentrations below the NMOCD Closure Criteria.

Upon NMOCD approval of this Closure Report, 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.

F&E respectfully requests the closure of Incident # nAPP2404472013.

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: Ryan Swift
Forty Acres Energy, LLC
11757 Katy Freeway, Suite 725
Houston, Texas 77079



TABLE

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FORTY ACRES ENERGY, LLC
WEST EUMONT #410 (30-025-04387)
NMOCD INCIDENT # nAPP2404472013

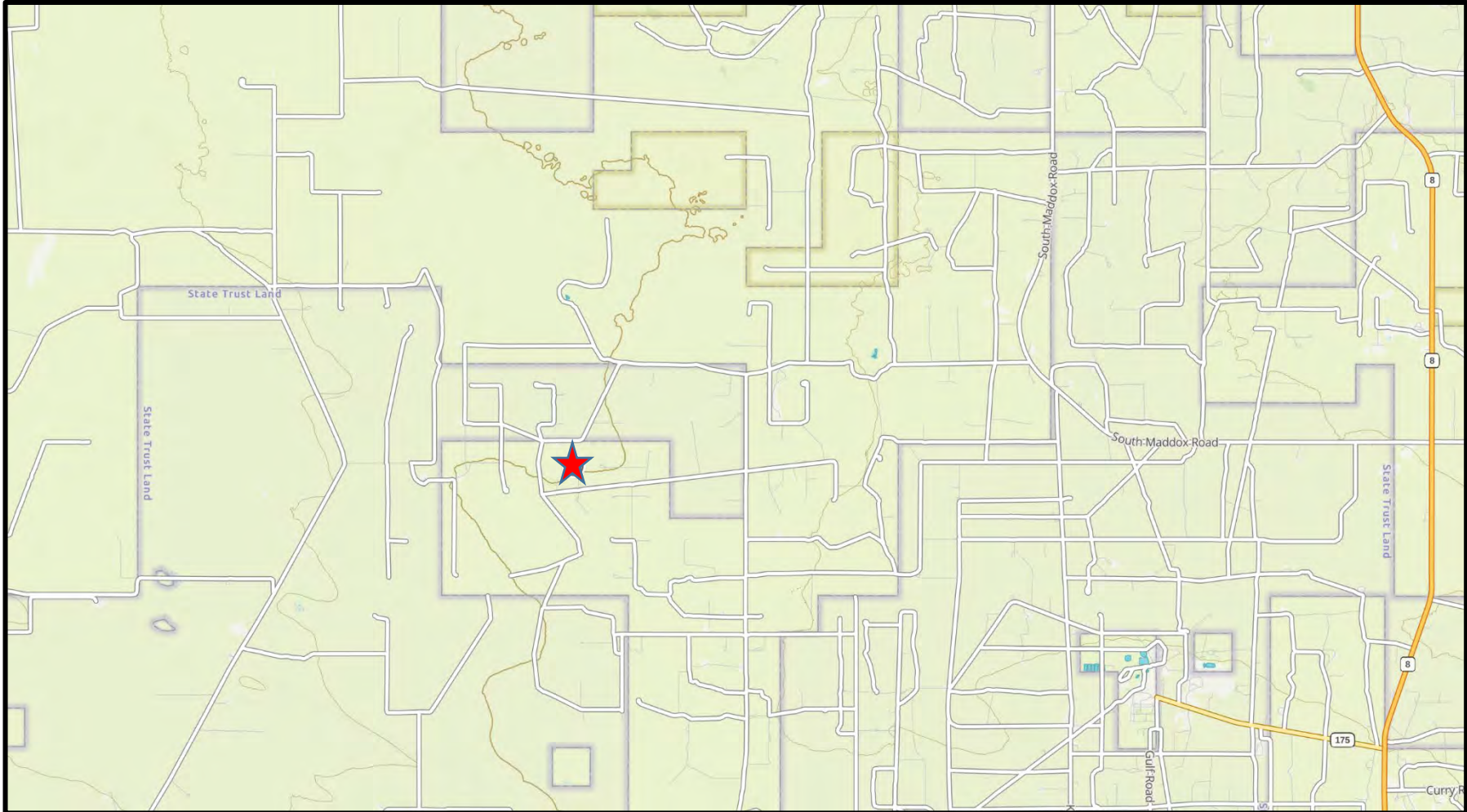
Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							100	10	-	-	-	50	600
S-1 (0-1')	05/02/24	0-1'	Excavated	<49.8	221	<49.8	221 H	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<4.97
S-1 (0-1')	10/15/24	0-1'	In Situ	<49.9	<49.9	<49.9	<49.9	--	--	--	--	--	<10.1
S-2 (1')	05/02/24	1'	In Situ	<49.7	62.1	<49.7	62.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	23.8
S-3 (3')	05/02/24	3'	Excavated	<49.8	4,130 H	<49.8	4130 H	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,150
S-3 (4')	08/27/24	4'	In Situ	<49.7	<49.7	<49.7	<49.7	--	--	--	--	--	176
S-4 (1')	05/02/24	1'	Excavated	<49.9	177	<49.9	177	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	46.0
S-4 (4')	08/27/24	4'	In Situ	<50.0	<50.0	<50.0	<50.0	--	--	--	--	--	16.0
S-5 (0-1')	05/02/24	0-1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	0.00603	0.00603	11.8
S-6 (0-1')	05/02/24	0-1'	In Situ	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	32.3
S-7 (0-2')	05/02/24	0-2'	In Situ	<50.5	<50.5	<50.5	<50.5	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	6.67
S-8 (4.2')	05/02/24	4.2'	Excavated	<50.0	439	<50.0	439	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	487 F1
S-8 (5.5')	08/27/24	5.5'	In Situ	<49.8	<49.8	<49.8	<49.8	--	--	--	--	--	16.7
S-9 (0-1')	05/02/24	0-1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<4.97
S-10 (2')	05/02/24	2'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.03
S-11 (0-1')	05/02/24	0-1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.98
S-12 (2.5')	05/02/24	2.5'	Excavated	<49.7	2,870	<49.7	2,870	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	525
S-12 (3')	08/27/24	3'	In Situ	<49.8	342	<49.8	342	--	--	--	--	--	27.2
S-12 (3.5')	10/15/24	3.5'	In Situ	<50.0	<50.0	<50.0	<50.0	--	--	--	--	--	163
S-13 (0-3')	08/27/24	0-3'	In Situ	<49.8	<49.8	<49.8	<49.8	--	--	--	--	--	<4.97
S-14 (0-4')	08/27/24	0-4'	In Situ	<49.7	<49.7	<49.7	<49.7	--	--	--	--	--	47.8
S-15 (0-4')	08/27/24	0-4'	In Situ	<49.8	915	<49.8	915	--	--	--	--	--	246
S-15 (0-4')	10/15/24	0-4'	In Situ	<49.8	<49.8	<49.8	<49.8	--	--	--	--	--	<9.96
S-16 (0-4')	08/27/24	0-4'	In Situ	<49.9	90.1	<49.9	90.1	--	--	--	--	--	7.29
S-17 (0-4')	08/27/24	0-4'	In Situ	<49.9	<49.9	<49.9	<49.9	--	--	--	--	--	23.3
S-18 (0-2')	08/27/24	0-2'	In Situ	<50.0	<50.0	<50.0	<50.0	--	--	--	--	--	<5.01
S-19 (0-3')	08/27/24	0-3'	In Situ	<49.8	<49.8	<49.8	<49.8	--	--	--	--	--	13.6
S-20 (0-3')	08/27/24	0-3'	In Situ	<49.8	<49.8	<49.8	<49.8	--	--	--	--	--	8.20
S-21 (3')	08/27/24	3'	In Situ	<50.0	<50.0	<50.0	<50.0	--	--	--	--	--	<5.04



Notes:

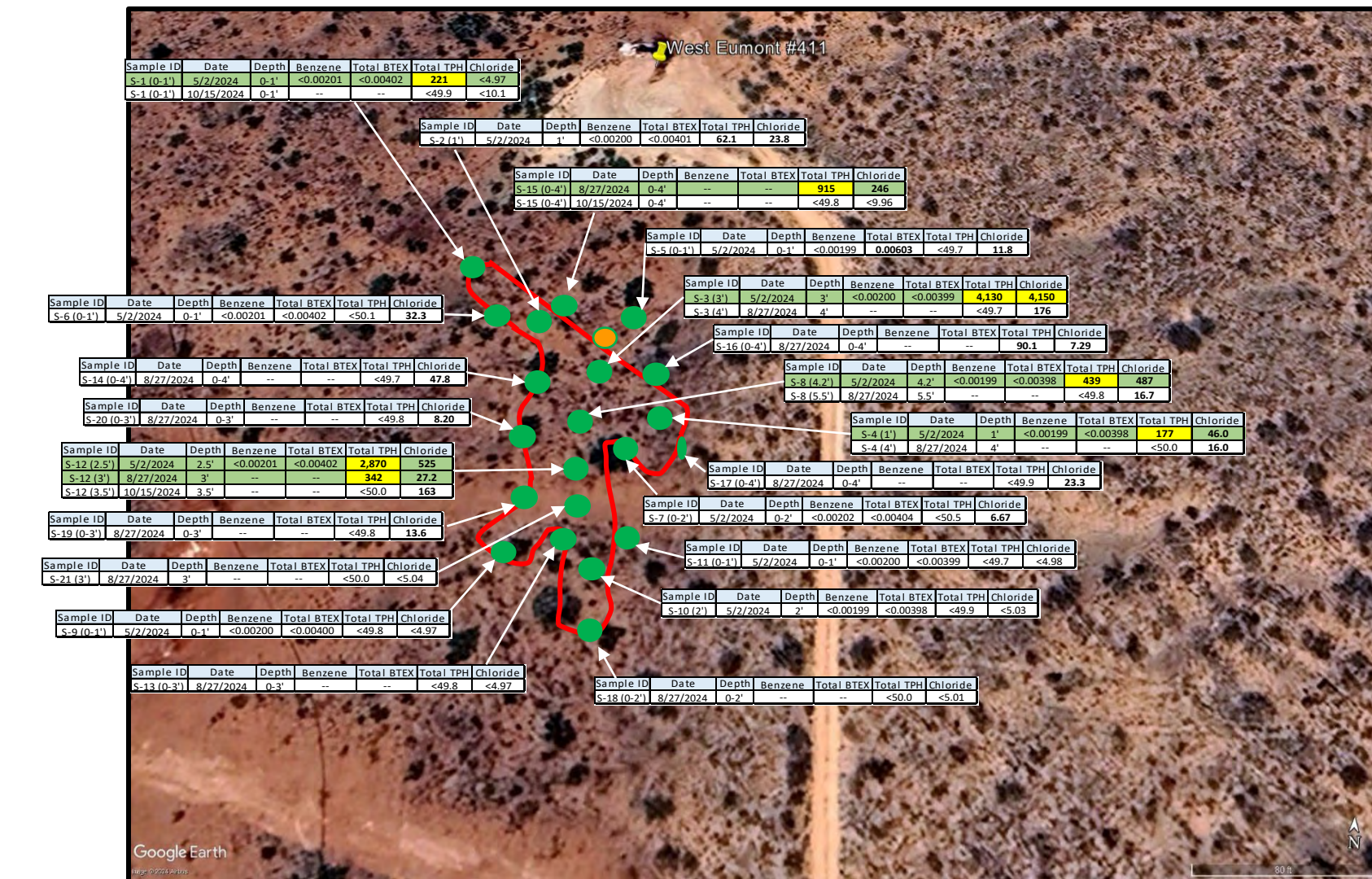
1. GRO: Gasoline Range Organics
2. DRO: Diesel Range Organics
3. MRO: Motor Oil Range Organics
4. -: No NMOCD Closure Criteria established.
5. bgs: Below Ground Surface
6. Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
7. < indicates the COC was below the appropriate laboratory method/sample detection limit.
8. Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
9. Green highlighting indicates soil was excavated and disposed.
10. F1: MS and/or MSD recovery exceeds control limits.
11. H: Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.



FIGURES



LEGEND:  Site Location Base Map From GAIA GPS	Figure 1 Site Location Map		
	Forty Acres Energy, LLC	Drafted by: CC Checked by: CC	
	West Eumont #410	Draft: June 23, 2024	
	Lea County, New Mexico	GPS: 32.534475° -103.353035°	

**LEGEND:**

- Release Point.
- Soil Sample Location With Concentrations (mg/kg).
- Excavation Boundary
- Yellow Highlight Indicates Concentration Above NMOC Closure Criteria
- Green Highlight Indicates Soil was Excavated and Disposed

Figure 2
Soil Sample Location Map

Forty Acres Energy, LLC
West Eumont #410
Lea County, New Mexico

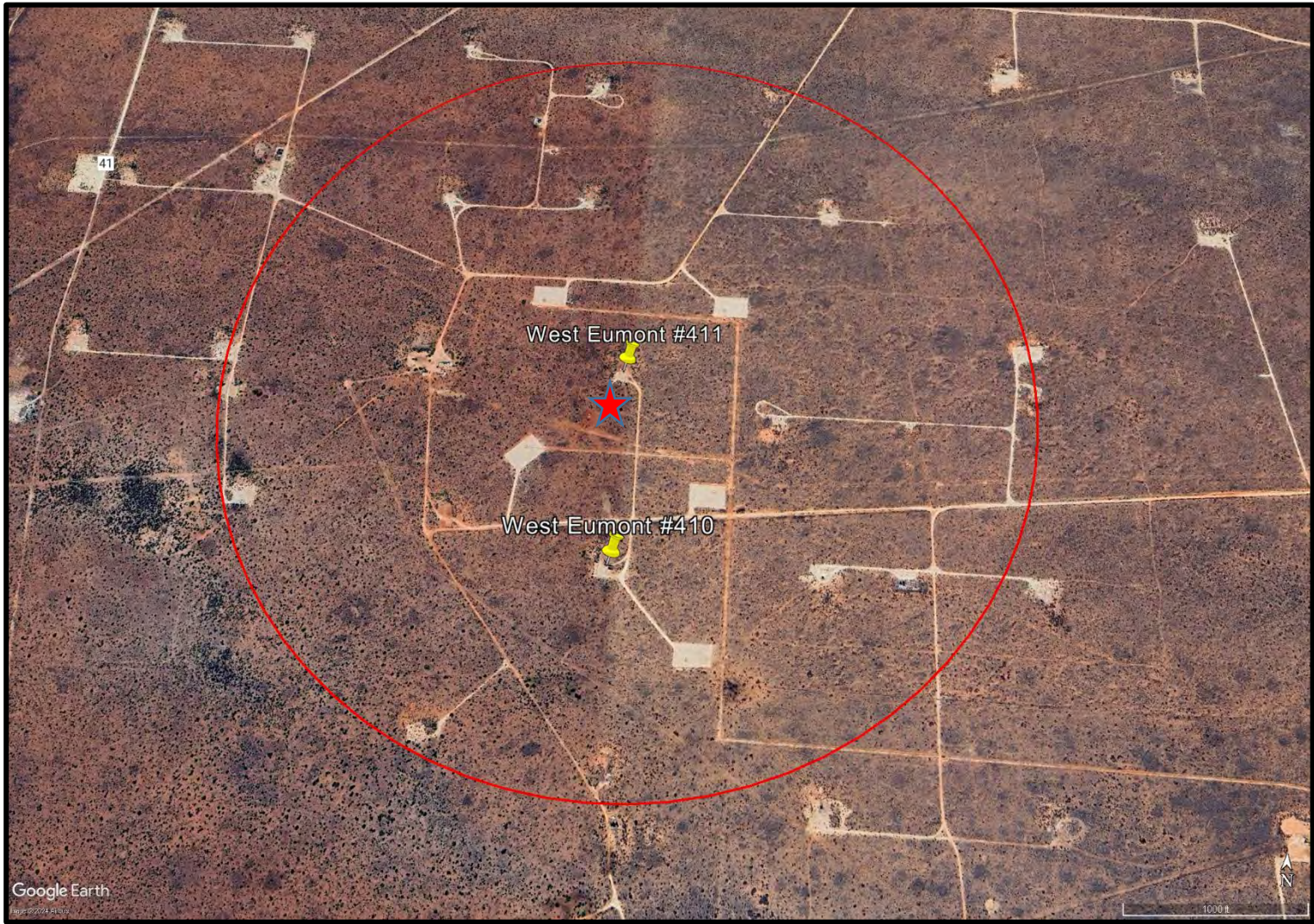
Drafted by: CC | Checked by: CC



Draft: Nov. 14, 2024

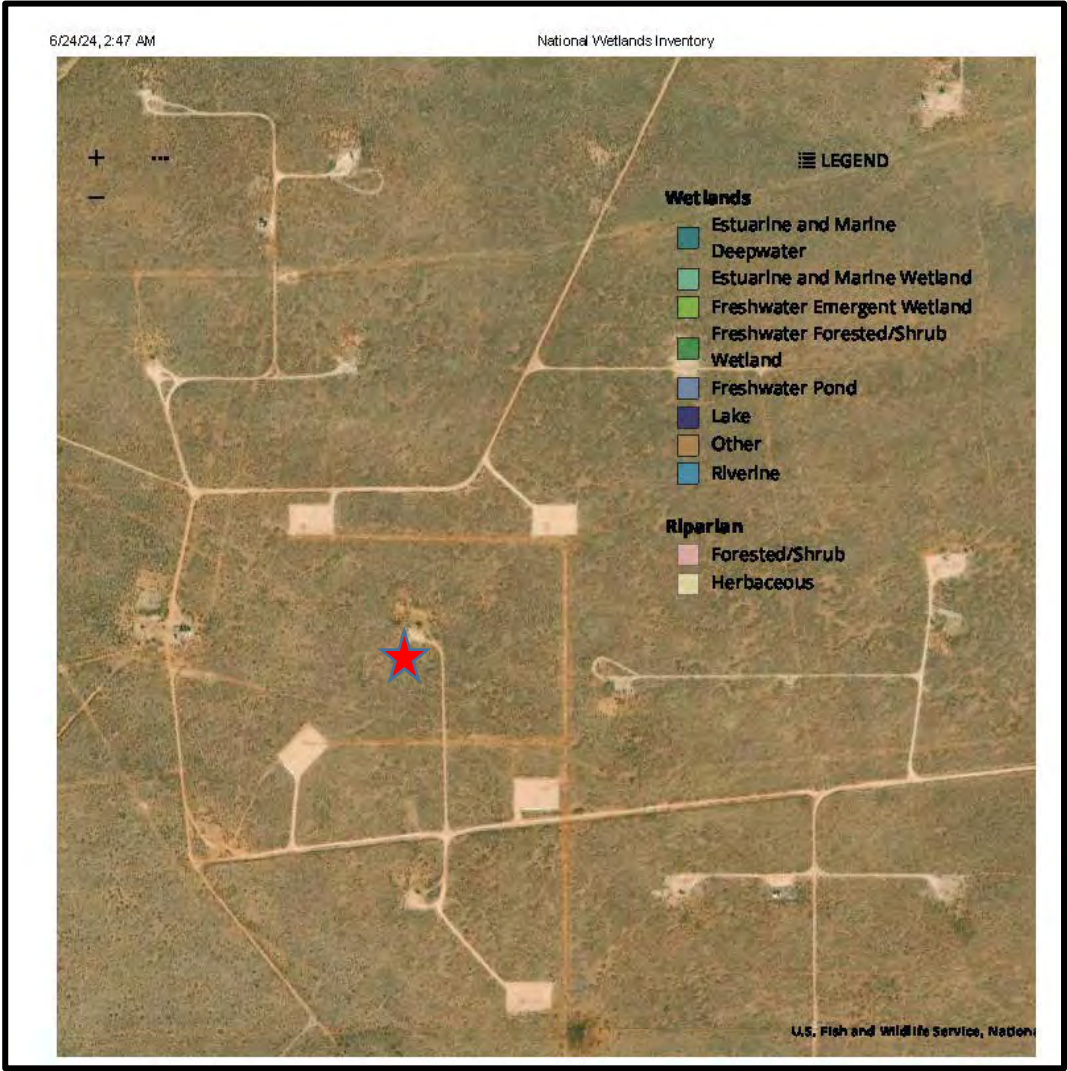
GPS: 32.534475° -103.353035°



Base Map from Google Earth Pro

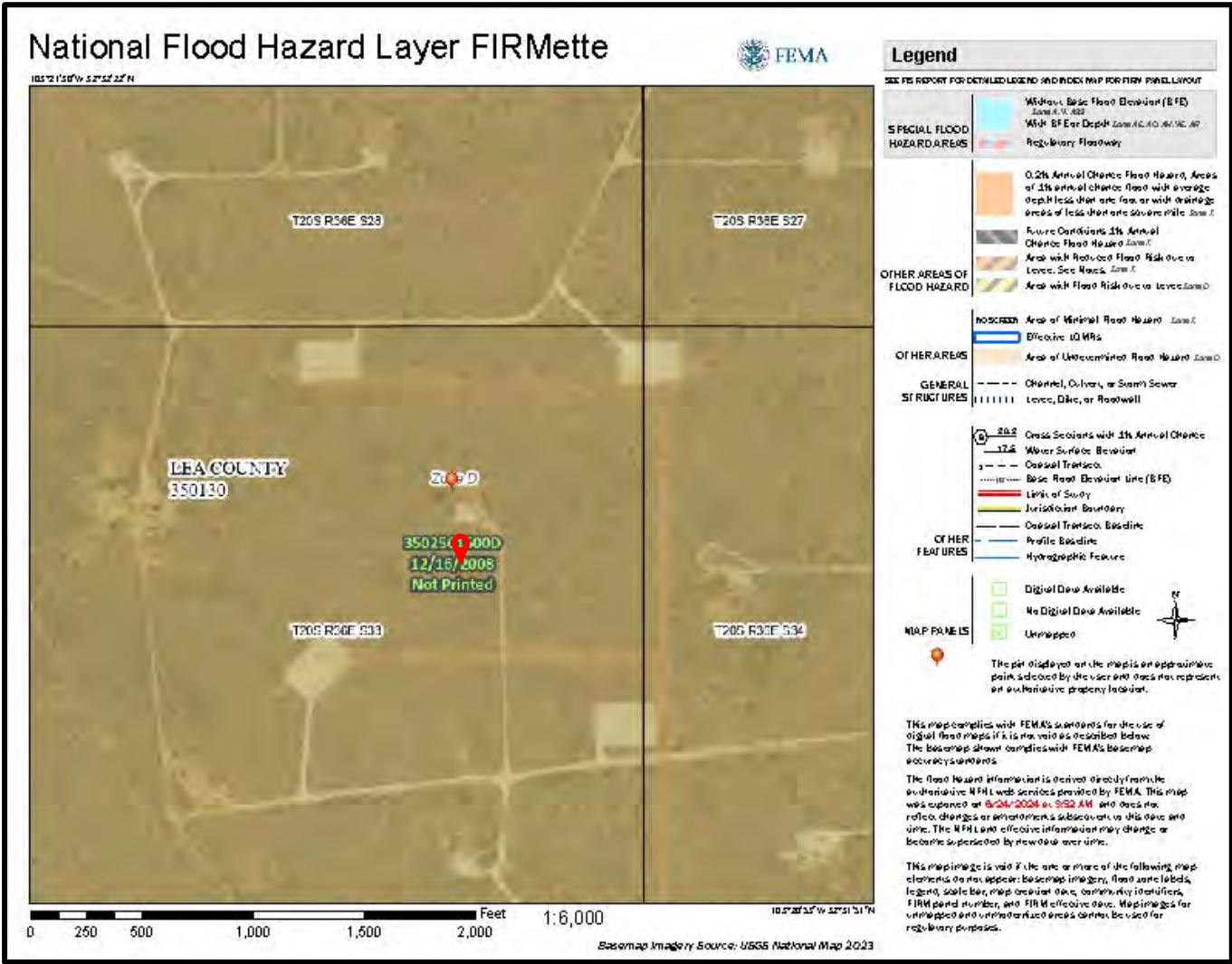






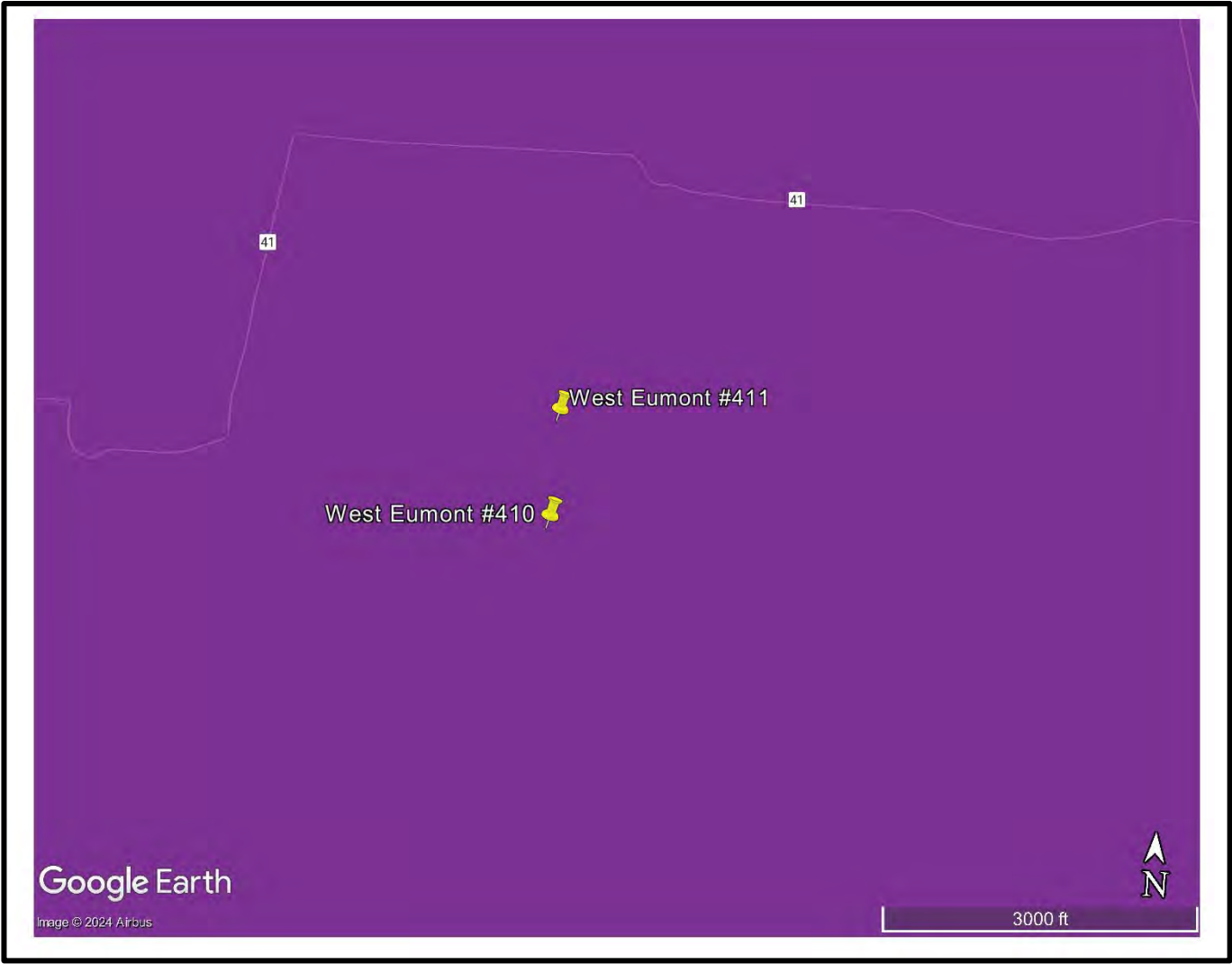
<div>LEGEND:</div> <div> Site Location</div> <div>Base Map From Google Earth Pro</div>	<div>Figure 3</div> <div>Wellhead Protection Area Map</div> <div>Forty Acres Energy, LLC</div> <div>West Eumont #410</div> <div>Lea County, New Mexico</div>		
		Drafted by: CC Checked by: CC	
		Draft: June 23, 2024	
		GPS: 32.534475° -103.353035°	



<div>LEGEND:</div> <div> Site Location</div>	<div>Figure 4</div> <div>National Wetlands Inventory Map</div> <div>Forty Acres Energy, LLC</div> <div>West Eumont #410</div> <div>Lea County, New Mexico</div>		<div></div>
		Drafted by: CC Checked by: CC	
		Draft: June 23, 2024	
		GPS: 32.534475° -103.353035°	
Base Map From US Fish & Wildlife Service			



LEGEND: <div> Site Location</div> Base Map From FEMA	Figure 5 FEMA Floodplain Map Forty Acres Energy, LLC West Eumont #410 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: June 23, 2024	
		GPS: 32.534475° -103.353035°	



LEGEND: <div><div></div>Low Karst Potential</div> <div><div></div>Medium Karst Potential</div> <div><div></div>High Karst Potential</div> Base Map From Google Earth Pro and BLM	Figure 6 Karst Potential Map Forty Acres Energy, LLC West Eumont #410 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: June 23, 2024	
		GPS: 32.534475° -103.353035°	



**Appendix A: Release Notification and Corrective Action Form
(NMOCD Form C-141)**

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2404472013
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Forty Acres Energy, LLC	OGRID	371416
Contact Name	Ryan Swift	Contact Telephone	(346) 254-9544
Contact email	ryan@faenergyus.com	Incident # (assigned by OCD)	nAPP2404472013
Contact mailing address	11757 Katy Freeway, Suite 725, Houston, Texas 77079		

Location of Release Source

Latitude 32.5314178 Longitude -103.3529358
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	West Eumont Unit #410	Site Type	Flowline
Date Release Discovered	2/1/24	API# (if applicable)	30-025-04387

Unit Letter	Section	Township	Range	County
A	33	20S	36E	Lea

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 15 bbl	Volume Recovered (bbls) 0 bbl
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 15 bbl	Volume Recovered (bbls) 0 bbl
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

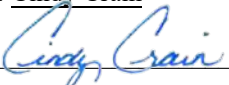
Corrosion of flow line

Incident ID	nAPP2404472013
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Greater than 25 bbl were released
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice to Mike Bratcher by James Martinez by phone	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Cindy Crain</u>	Title: <u>Agent for Forty Acres Energy, LLC</u>
Signature: <u></u>	Date: _____
email: <u>cindy.crain@gmail.com</u>	Telephone: <u>(575) 441-7244</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	nAPP2404472013
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>< 50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2404472013
District RP	
Facility ID	
Application ID	

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

Printed Name: Cindy Crain

Title: Agent for Forty Acres Energy, LLC

Signature:  Date: _____

email: cindy.crain@gmail.com Telephone: (575) 441-7244

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2404472013
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Cindy CrainTitle: Agent for Forty Acres Energy, LLCSignature: 

Date: _____

email: cindy.crain@gmail.comTelephone: (575) 441-7244**OCD Only**

Received by: _____ Date: _____

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

Signature: _____

Date: _____

Incident ID	nAPP2404472013
District RP	
Facility ID	
Application ID	

Closure

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

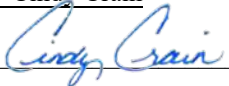
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

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

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

Printed Name: Cindy Crain

Title: Agent for Forty Acres Energy, LLC

Signature: 

Date: November 14, 2024

email: cindy.crain@gmail.com

Telephone: (575) 441-7244

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____



Appendix B: NMOCD Correspondence



Cindy Crain <cindy.crain@gmail.com>

FW: [EXTERNAL] Forty Acres Energy C-141 Extension Request

1 message

Ryan Swift <ryan@faenergyus.com>
To: Cindy Crain <cindy.crain@gmail.com>

Wed, Jul 3, 2024 at 9:06 AM

From: Alex Bolanos <alex@faenergyus.com>
Sent: Wednesday, July 3, 2024 8:49 AM
To: Ryan Swift <ryan@faenergyus.com>
Subject: RE: [EXTERNAL] Forty Acres Energy C-141 Extension Request

FYI

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Tuesday, July 2, 2024 3:11 PM
To: Alex Bolanos <alex@faenergyus.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] Forty Acres Energy C-141 Extension Request

Hi Alex,

Thanks for the correspondence. The following table shows the approved extension dates.

Incident Number	Location	Remed. Due
nAPP2405454076	West Eumont Unit #405-RR BELL	08/02/2024
nAPP2404472013	West Eumont Unit #410	08/30/2024
nAPP2404471333	West Eumont Unit #210	10/07/2024

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

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>



The Oil Conservation Division (OCD) has approved the application, Application ID: 361977

Crain Environmental/FAE II - Forty Acres/W Eumont #410

O

OCDOnline@state.nm.us

to me 

Tue, Jul 16, 12:05 PM



To whom it may concern (c/o Cindy Crain for FORTY ACRES ENERGY, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2404472013, with the following conditions:

- **Remediation plan is approved under the following conditions; 1. Although delineation was not provided for the vertical extent at four (4) advanced borings, Forty Acres Energy must continue excavation until confirmation samples collected from the bottom and sidewalls of the excavation report TPH and chloride concentrations below the NMOCD Closure Criteria. 2. FAE has 90-days (October 15, 2024) to submit to OCD its appropriate or final remediation closure report.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Nelson Velez
Environmental Specialist - Advanced
505-469-6146
Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Forty Acres Energy__C-141 Extension Requests

Inbox



Alex Bolanos

to Nelson,, Ryan, me

Oct 14, 2024, 10:35 AM

Nelson,

Our environmental consultant is working to finishing up work in the West Eumont Area for Forty Acres. However, we will need a little more time to complete remediation and samplin have closure reports completed on the following dates:

- WEU 410 - nAPP2404472013: **October 15, 2024**
- WEU 210 - nAPP2404471333: **October 21, 2024**
- WEU 407 - nAPP2316652967: **October 22, 2024**
- WEU Injection - nAPP2316651719: **October 21, 2024**
- WEU 115 - nAPP2316654395: **October 21, 2024**
- WEU 115C - nAPP2319562381: **October 22, 2024**
- RR Bell TB - nAPP2405454076: **November 4, 2024**
- WEU 525 - nAPP2405856306: **November 12, 2024**

Accordingly, we would like the following extensions in to complete work in this area:

- WEU 410 - nAPP2404472013: **30 days extension**
- WEU 210 - nAPP2404471333: **90 days extension**
- WEU 407 - nAPP2316652967: **30 days extension**
- WEU Injection - nAPP2316651719: **90 days extension**
- WEU 115 - nAPP2316654395: **90 days extension**
- WEU 115C - nAPP2319562381: **90 days extension**
- RR Bell TB - nAPP2405454076: **90 days extension**
- WEU 525 - nAPP2405856306: **90 days extension**

If you have any questions or need any additional information, please advise.

Thanks,
Alex Bolanos
Forty Acres Energy
alex@faenergyus.com
(832) 689-3788



Velez, Nelson, EMNRD

to Alex, Ryan, me

Oct 15, 2024, 4:18 PM

Good afternoon Alex,

Thank you for the correspondence. All eight (8) time extensions had been approved for the time requested (see below).

- | | |
|---|------------|
| • WEU 410 - nAPP2404472013: 30 days extension | 11/14/2024 |
| • WEU 210 - nAPP2404471333: 90 days extension | 01/21/2025 |
| • WEU 407 - nAPP2316652967: 30 days extension | 11/21/2024 |
| • WEU Injection - nAPP2316651719: 90 days extension | 01/21/2025 |
| • WEU 115 - nAPP2316654395: 90 days extension | 01/21/2025 |
| • WEU 115C - nAPP2319562381: 90 days extension | 01/21/2025 |
| • RR Bell TB - nAPP2405454076: 90 days extension | 02/03/2025 |
| • WEU 525 - nAPP2405856306: 90 days extension | 02/10/2025 |

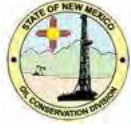
Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

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

Thanks again

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 C: Laboratory Reports and Chain-of-Custody Documentation



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/4/2024 12:08:51 PM

JOB DESCRIPTION

Well 410
Lea Co., NM

JOB NUMBER

880-47908-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

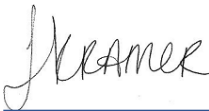
Eurofins Midland

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
9/4/2024 12:08:51 PM

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

Client: Crain Environmental
Project/Site: Well 410

Laboratory Job ID: 880-47908-1
SDG: Lea Co., NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	20
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	29

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

Definitions/Glossary

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Well 410

Job ID: 880-47908-1

Job ID: 880-47908-1

Eurofins Midland

Job Narrative
880-47908-1

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 8/29/2024 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-3 (4') (880-47908-1), S-4 (4') (880-47908-2), S-8 (5.5') (880-47908-3), S-12 (4') (880-47908-4), S-13 (0-3') (880-47908-5), S-14 (0-4') (880-47908-6), S-15 (0-4') (880-47908-7), S-16 (0-4') (880-47908-8), S-17 (0-4') (880-47908-9), S-18 (0-3') (880-47908-10), S-19 (0-3') (880-47908-11), S-20 (3') (880-47908-12) and S-21 (3') (880-47908-13).

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-15 (0-4') (880-47908-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-89728 and analytical batch 880-89778 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-89728/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-89728 and analytical batch 880-89778 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-89726 and analytical batch 880-89747 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.

The associated samples are: S-3 (4') (880-47908-1), S-4 (4') (880-47908-2), S-8 (5.5') (880-47908-3), S-12 (4') (880-47908-4), S-13 (0-3') (880-47908-5), S-14 (0-4') (880-47908-6) and S-15 (0-4') (880-47908-7).

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

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Client Sample ID: S-3 (4')

Lab Sample ID: 880-47908-1

Date Collected: 08/27/24 13:55

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/30/24 00:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/29/24 12:34	08/30/24 00:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/29/24 12:34	08/30/24 00:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/29/24 12:34	08/30/24 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/29/24 12:34	08/30/24 00:04	1
o-Terphenyl	84		70 - 130				08/29/24 12:34	08/30/24 00:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		5.03		mg/Kg			08/30/24 17:32	1

Client Sample ID: S-4 (4')

Lab Sample ID: 880-47908-2

Date Collected: 08/27/24 14:00

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/24 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/24 12:34	08/30/24 00:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/24 12:34	08/30/24 00:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/24 12:34	08/30/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				08/29/24 12:34	08/30/24 00:19	1
o-Terphenyl	85		70 - 130				08/29/24 12:34	08/30/24 00:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.0		5.02		mg/Kg			08/30/24 17:40	1

Client Sample ID: S-8 (5.5')

Lab Sample ID: 880-47908-3

Date Collected: 08/27/24 14:05

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 5.5'

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			08/30/24 00:36	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Client Sample ID: S-8 (5.5')

Lab Sample ID: 880-47908-3

Date Collected: 08/27/24 14:05

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 5.5'

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		08/29/24 12:34	08/30/24 00:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/29/24 12:34	08/30/24 00:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/24 12:34	08/30/24 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/29/24 12:34	08/30/24 00:36	1
o-Terphenyl	86		70 - 130				08/29/24 12:34	08/30/24 00:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.7		5.00		mg/Kg			08/30/24 18:04	1

Client Sample ID: S-12 (3')

Lab Sample ID: 880-47908-4

Date Collected: 08/27/24 14:10

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	342		49.8		mg/Kg			08/30/24 00:52	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		08/29/24 12:34	08/30/24 00:52	1
Diesel Range Organics (Over C10-C28)	342		49.8		mg/Kg		08/29/24 12:34	08/30/24 00:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/24 12:34	08/30/24 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/29/24 12:34	08/30/24 00:52	1
o-Terphenyl	98		70 - 130				08/29/24 12:34	08/30/24 00:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.2		4.98		mg/Kg			08/30/24 18:12	1

Client Sample ID: S-13 (0-3')

Lab Sample ID: 880-47908-5

Date Collected: 08/27/24 14:15

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-3'

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			08/29/24 23:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/29/24 12:37	08/29/24 23:47	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Client Sample ID: S-13 (0-3')

Lab Sample ID: 880-47908-5

Date Collected: 08/27/24 14:15

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/29/24 12:37	08/29/24 23:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/24 12:37	08/29/24 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				08/29/24 12:37	08/29/24 23:47	1
o-Terphenyl	104		70 - 130				08/29/24 12:37	08/29/24 23:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			08/30/24 18:20	1

Client Sample ID: S-14 (0-4')

Lab Sample ID: 880-47908-6

Date Collected: 08/27/24 14:20

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/30/24 00:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/29/24 12:37	08/30/24 00:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/29/24 12:37	08/30/24 00:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/29/24 12:37	08/30/24 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				08/29/24 12:37	08/30/24 00:04	1
o-Terphenyl	105		70 - 130				08/29/24 12:37	08/30/24 00:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.8		5.02		mg/Kg			08/30/24 18:29	1

Client Sample ID: S-15 (0-4')

Lab Sample ID: 880-47908-7

Date Collected: 08/27/24 14:25

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	915		49.8		mg/Kg			08/30/24 00:19	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		08/29/24 12:37	08/30/24 00:19	1
Diesel Range Organics (Over C10-C28)	915		49.8		mg/Kg		08/29/24 12:37	08/30/24 00:19	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Client Sample ID: S-15 (0-4')

Lab Sample ID: 880-47908-7

Date Collected: 08/27/24 14:25

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/24 12:37	08/30/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/29/24 12:37	08/30/24 00:19	1
o-Terphenyl	138	S1+	70 - 130				08/29/24 12:37	08/30/24 00:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		5.05		mg/Kg			08/30/24 18:37	1

Client Sample ID: S-16 (0-4')

Lab Sample ID: 880-47908-8

Date Collected: 08/27/24 14:30

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.1		49.9		mg/Kg			08/30/24 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/24 12:37	08/30/24 00:36	1
Diesel Range Organics (Over C10-C28)	90.1		49.9		mg/Kg		08/29/24 12:37	08/30/24 00:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/24 12:37	08/30/24 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/29/24 12:37	08/30/24 00:36	1
o-Terphenyl	102		70 - 130				08/29/24 12:37	08/30/24 00:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.29		5.05		mg/Kg			08/30/24 18:45	1

Client Sample ID: S-17 (0-4')

Lab Sample ID: 880-47908-9

Date Collected: 08/27/24 14:35

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/30/24 00:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/29/24 12:37	08/30/24 00:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/29/24 12:37	08/30/24 00:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/29/24 12:37	08/30/24 00:52	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Client Sample ID: S-17 (0-4')

Lab Sample ID: 880-47908-9

Date Collected: 08/27/24 14:35

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-4'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/29/24 12:37	08/30/24 00:52	1
o-Terphenyl	98		70 - 130	08/29/24 12:37	08/30/24 00:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.3		5.05		mg/Kg			08/30/24 19:09	1

Client Sample ID: S-18 (0-3')

Lab Sample ID: 880-47908-10

Date Collected: 08/27/24 14:40

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/24 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/24 17:06	08/30/24 13:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		08/29/24 17:06	08/30/24 13:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/24 17:06	08/30/24 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/29/24 17:06	08/30/24 13:56	1
o-Terphenyl	88		70 - 130	08/29/24 17:06	08/30/24 13:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			08/30/24 19:17	1

Client Sample ID: S-19 (0-3')

Lab Sample ID: 880-47908-11

Date Collected: 08/27/24 14:45

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-3'

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			08/30/24 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/29/24 17:06	08/30/24 14:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		08/29/24 17:06	08/30/24 14:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/24 17:06	08/30/24 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	08/29/24 17:06	08/30/24 14:45	1
o-Terphenyl	97		70 - 130	08/29/24 17:06	08/30/24 14:45	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Client Sample ID: S-19 (0-3')

Lab Sample ID: 880-47908-11

Date Collected: 08/27/24 14:45

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 0-3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.6		4.99		mg/Kg			08/30/24 19:42	1

Client Sample ID: S-20 (3')

Lab Sample ID: 880-47908-12

Date Collected: 08/27/24 14:50

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 3'

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			08/30/24 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/29/24 17:06	08/30/24 15:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		08/29/24 17:06	08/30/24 15:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/24 17:06	08/30/24 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				08/29/24 17:06	08/30/24 15:01	1
o-Terphenyl	105		70 - 130				08/29/24 17:06	08/30/24 15:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.20		4.96		mg/Kg			08/30/24 19:50	1

Client Sample ID: S-21 (3')

Lab Sample ID: 880-47908-13

Date Collected: 08/27/24 14:55

Matrix: Solid

Date Received: 08/29/24 15:10

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/24 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/24 17:06	08/30/24 15:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		08/29/24 17:06	08/30/24 15:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/24 17:06	08/30/24 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/29/24 17:06	08/30/24 15:18	1
o-Terphenyl	91		70 - 130				08/29/24 17:06	08/30/24 15:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			08/30/24 19:58	1

Eurofins Midland

Surrogate Summary

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
880-47908-1	S-3 (4')	92	84
880-47908-2	S-4 (4')	93	85
880-47908-3	S-8 (5.5')	96	86
880-47908-4	S-12 (3')	96	98
880-47908-5	S-13 (0-3')	104	104
880-47908-6	S-14 (0-4')	106	105
880-47908-7	S-15 (0-4')	112	138 S1+
880-47908-8	S-16 (0-4')	98	102
880-47908-9	S-17 (0-4')	98	98
880-47908-10	S-18 (0-3')	97	88
880-47908-10 MS	S-18 (0-3')	90	86
880-47908-10 MSD	S-18 (0-3')	89	86
880-47908-11	S-19 (0-3')	108	97
880-47908-12	S-20 (3')	118	105
880-47908-13	S-21 (3')	102	91
LCS 880-89688/2-A	Lab Control Sample	110	107
LCS 880-89689/2-A	Lab Control Sample	97	105
LCS 880-89728/2-A	Lab Control Sample	132 S1+	127
LCSD 880-89688/3-A	Lab Control Sample Dup	88	110
LCSD 880-89689/3-A	Lab Control Sample Dup	96	105
LCSD 880-89728/3-A	Lab Control Sample Dup	100	124
MB 880-89688/1-A	Method Blank	92	84
MB 880-89689/1-A	Method Blank	101	104
MB 880-89728/1-A	Method Blank	145 S1+	134 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-89688/1-A

Matrix: Solid

Analysis Batch: 89669

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 89688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/24 12:34	08/29/24 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/24 12:34	08/29/24 18:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/24 12:34	08/29/24 18:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/29/24 12:34	08/29/24 18:02	1
o-Terphenyl	84		70 - 130				08/29/24 12:34	08/29/24 18:02	1

Lab Sample ID: LCS 880-89688/2-A

Matrix: Solid

Analysis Batch: 89669

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 89688

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1010		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1070		mg/Kg		107	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 130				
o-Terphenyl	107		70 - 130				

Lab Sample ID: LCSD 880-89688/3-A

Matrix: Solid

Analysis Batch: 89669

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 89688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1017		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1149		mg/Kg		115	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	88		70 - 130						
o-Terphenyl	110		70 - 130						

Lab Sample ID: MB 880-89689/1-A

Matrix: Solid

Analysis Batch: 89551

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 89689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/24 12:36	08/29/24 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/24 12:36	08/29/24 18:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/24 12:36	08/29/24 18:02	1

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-89689/1-A

Matrix: Solid

Analysis Batch: 89551

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 89689

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/29/24 12:36	08/29/24 18:02	1
o-Terphenyl	104		70 - 130	08/29/24 12:36	08/29/24 18:02	1

Lab Sample ID: LCS 880-89689/2-A

Matrix: Solid

Analysis Batch: 89551

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 89689

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	837.5		mg/Kg		84	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	794.9		mg/Kg		79	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-89689/3-A

Matrix: Solid

Analysis Batch: 89551

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 89689

		Spike	LCSD	LCSD				%Rec		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10		1000	837.7		mg/Kg		84	70 - 130	0	20	
Diesel Range Organics (Over C10-C28)		1000	796.6		mg/Kg		80	70 - 130	0	20	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: MB 880-89728/1-A

Matrix: Solid

Analysis Batch: 89778

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 89728

	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		08/29/24 17:06	08/30/24 10:23	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/29/24 17:06	08/30/24 10:23	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/24 17:06	08/30/24 10:23	1	

	MB	MB	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	134	S1+	70 - 130

Prepared	Analyzed	Dil Fac							
08/29/24 17:06	08/30/24 10:23	1							
08/29/24 17:06	08/30/24 10:23	1							

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-89728/2-A

Matrix: Solid

Analysis Batch: 89778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 89728

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1143		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1278		mg/Kg		128	70 - 130
		LCS	LCS				
		%Recovery	Qualifier				
Surrogate			Limits				
1-Chlorooctane		132	S1+				
o-Terphenyl		127					

Lab Sample ID: LCSD 880-89728/3-A

Matrix: Solid

Analysis Batch: 89778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 89728

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1122		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1312	*+	mg/Kg		131	70 - 130	3	20
		LCSD	LCSD						
		%Recovery	Qualifier						
Surrogate			Limits						
1-Chlorooctane		100							
o-Terphenyl		124							

Lab Sample ID: 880-47908-10 MS

Matrix: Solid

Analysis Batch: 89778

Client Sample ID: S-18 (0-3')

Prep Type: Total/NA

Prep Batch: 89728

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	901.4		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *+	997	813.1		mg/Kg		82	70 - 130
		MS	MS						
		%Recovery	Qualifier						
Surrogate			Limits						
1-Chlorooctane		90							
o-Terphenyl		86							

Lab Sample ID: 880-47908-10 MSD

Matrix: Solid

Analysis Batch: 89778

Client Sample ID: S-18 (0-3')

Prep Type: Total/NA

Prep Batch: 89728

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	896.4		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U *+	997	797.2		mg/Kg		80	70 - 130	2	20
		MSD	MSD								
		%Recovery	Qualifier								
Surrogate			Limits								
1-Chlorooctane		89									

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-47908-10 MSD

Matrix: Solid

Analysis Batch: 89778

Client Sample ID: S-18 (0-3')

Prep Type: Total/NA

Prep Batch: 89728

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	86		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-89726/1-A

Matrix: Solid

Analysis Batch: 89747

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			08/30/24 16:26		1

Lab Sample ID: LCS 880-89726/2-A

Matrix: Solid

Analysis Batch: 89747

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec		
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride		250	236.0		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-89726/3-A

Matrix: Solid

Analysis Batch: 89747

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	236.8		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-47908-8 MS

Matrix: Solid

Analysis Batch: 89747

Client Sample ID: S-16 (0-4')

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS				%Rec		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	7.29		253	244.3		mg/Kg		94	90 - 110		

Lab Sample ID: 880-47908-8 MSD

Matrix: Solid

Analysis Batch: 89747

Client Sample ID: S-16 (0-4')

Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	7.29		253	244.9		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

GC Semi VOA

Analysis Batch: 89551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47908-5	S-13 (0-3')	Total/NA	Solid	8015B NM	89689
880-47908-6	S-14 (0-4')	Total/NA	Solid	8015B NM	89689
880-47908-7	S-15 (0-4')	Total/NA	Solid	8015B NM	89689
880-47908-8	S-16 (0-4')	Total/NA	Solid	8015B NM	89689
880-47908-9	S-17 (0-4')	Total/NA	Solid	8015B NM	89689
MB 880-89689/1-A	Method Blank	Total/NA	Solid	8015B NM	89689
LCS 880-89689/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89689
LCSD 880-89689/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89689

Analysis Batch: 89669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47908-1	S-3 (4')	Total/NA	Solid	8015B NM	89688
880-47908-2	S-4 (4')	Total/NA	Solid	8015B NM	89688
880-47908-3	S-8 (5.5')	Total/NA	Solid	8015B NM	89688
880-47908-4	S-12 (4')	Total/NA	Solid	8015B NM	89688
MB 880-89688/1-A	Method Blank	Total/NA	Solid	8015B NM	89688
LCS 880-89688/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89688
LCSD 880-89688/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89688

Prep Batch: 89688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47908-1	S-3 (4')	Total/NA	Solid	8015NM Prep	
880-47908-2	S-4 (4')	Total/NA	Solid	8015NM Prep	
880-47908-3	S-8 (5.5')	Total/NA	Solid	8015NM Prep	
880-47908-4	S-12 (4')	Total/NA	Solid	8015NM Prep	
MB 880-89688/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-89688/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89688/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 89689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47908-5	S-13 (0-3')	Total/NA	Solid	8015NM Prep	
880-47908-6	S-14 (0-4')	Total/NA	Solid	8015NM Prep	
880-47908-7	S-15 (0-4')	Total/NA	Solid	8015NM Prep	
880-47908-8	S-16 (0-4')	Total/NA	Solid	8015NM Prep	
880-47908-9	S-17 (0-4')	Total/NA	Solid	8015NM Prep	
MB 880-89689/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-89689/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89689/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 89728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47908-10	S-18 (0-3')	Total/NA	Solid	8015NM Prep	
880-47908-11	S-19 (0-3')	Total/NA	Solid	8015NM Prep	
880-47908-12	S-20 (3')	Total/NA	Solid	8015NM Prep	
880-47908-13	S-21 (3')	Total/NA	Solid	8015NM Prep	
MB 880-89728/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-89728/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89728/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47908-10 MS	S-18 (0-3')	Total/NA	Solid	8015NM Prep	
880-47908-10 MSD	S-18 (0-3')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

GC Semi VOA

Analysis Batch: 89778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47908-10	S-18 (0-3')	Total/NA	Solid	8015B NM	89728
880-47908-11	S-19 (0-3')	Total/NA	Solid	8015B NM	89728
880-47908-12	S-20 (3')	Total/NA	Solid	8015B NM	89728
880-47908-13	S-21 (3')	Total/NA	Solid	8015B NM	89728
MB 880-89728/1-A	Method Blank	Total/NA	Solid	8015B NM	89728
LCS 880-89728/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89728
LCSD 880-89728/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89728
880-47908-10 MS	S-18 (0-3')	Total/NA	Solid	8015B NM	89728
880-47908-10 MSD	S-18 (0-3')	Total/NA	Solid	8015B NM	89728

Analysis Batch: 89795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47908-1	S-3 (4')	Total/NA	Solid	8015 NM	
880-47908-2	S-4 (4')	Total/NA	Solid	8015 NM	
880-47908-3	S-8 (5.5')	Total/NA	Solid	8015 NM	
880-47908-4	S-12 (3')	Total/NA	Solid	8015 NM	
880-47908-5	S-13 (0-3')	Total/NA	Solid	8015 NM	
880-47908-6	S-14 (0-4')	Total/NA	Solid	8015 NM	
880-47908-7	S-15 (0-4')	Total/NA	Solid	8015 NM	
880-47908-8	S-16 (0-4')	Total/NA	Solid	8015 NM	
880-47908-9	S-17 (0-4')	Total/NA	Solid	8015 NM	
880-47908-10	S-18 (0-3')	Total/NA	Solid	8015 NM	
880-47908-11	S-19 (0-3')	Total/NA	Solid	8015 NM	
880-47908-12	S-20 (3')	Total/NA	Solid	8015 NM	
880-47908-13	S-21 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 89726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47908-1	S-3 (4')	Soluble	Solid	DI Leach	
880-47908-2	S-4 (4')	Soluble	Solid	DI Leach	
880-47908-3	S-8 (5.5')	Soluble	Solid	DI Leach	
880-47908-4	S-12 (3')	Soluble	Solid	DI Leach	
880-47908-5	S-13 (0-3')	Soluble	Solid	DI Leach	
880-47908-6	S-14 (0-4')	Soluble	Solid	DI Leach	
880-47908-7	S-15 (0-4')	Soluble	Solid	DI Leach	
880-47908-8	S-16 (0-4')	Soluble	Solid	DI Leach	
880-47908-9	S-17 (0-4')	Soluble	Solid	DI Leach	
880-47908-10	S-18 (0-3')	Soluble	Solid	DI Leach	
880-47908-11	S-19 (0-3')	Soluble	Solid	DI Leach	
880-47908-12	S-20 (3')	Soluble	Solid	DI Leach	
880-47908-13	S-21 (3')	Soluble	Solid	DI Leach	
MB 880-89726/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89726/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89726/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47908-8 MS	S-16 (0-4')	Soluble	Solid	DI Leach	
880-47908-8 MSD	S-16 (0-4')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

HPLC/IC

Analysis Batch: 89747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47908-1	S-3 (4')	Soluble	Solid	300.0	89726
880-47908-2	S-4 (4')	Soluble	Solid	300.0	89726
880-47908-3	S-8 (5.5')	Soluble	Solid	300.0	89726
880-47908-4	S-12 (3')	Soluble	Solid	300.0	89726
880-47908-5	S-13 (0-3')	Soluble	Solid	300.0	89726
880-47908-6	S-14 (0-4')	Soluble	Solid	300.0	89726
880-47908-7	S-15 (0-4')	Soluble	Solid	300.0	89726
880-47908-8	S-16 (0-4')	Soluble	Solid	300.0	89726
880-47908-9	S-17 (0-4')	Soluble	Solid	300.0	89726
880-47908-10	S-18 (0-3')	Soluble	Solid	300.0	89726
880-47908-11	S-19 (0-3')	Soluble	Solid	300.0	89726
880-47908-12	S-20 (3')	Soluble	Solid	300.0	89726
880-47908-13	S-21 (3')	Soluble	Solid	300.0	89726
MB 880-89726/1-A	Method Blank	Soluble	Solid	300.0	89726
LCS 880-89726/2-A	Lab Control Sample	Soluble	Solid	300.0	89726
LCSD 880-89726/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89726
880-47908-8 MS	S-16 (0-4')	Soluble	Solid	300.0	89726
880-47908-8 MSD	S-16 (0-4')	Soluble	Solid	300.0	89726

Lab Chronicle

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Client Sample ID: S-3 (4')
Date Collected: 08/27/24 13:55
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 00:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89688	08/29/24 12:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89669	08/30/24 00:04	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 17:32	SI	EET MID

Client Sample ID: S-4 (4')
Date Collected: 08/27/24 14:00
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 00:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89688	08/29/24 12:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89669	08/30/24 00:19	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 17:40	SI	EET MID

Client Sample ID: S-8 (5.5')
Date Collected: 08/27/24 14:05
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 00:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89688	08/29/24 12:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89669	08/30/24 00:36	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 18:04	SI	EET MID

Client Sample ID: S-12 (3')
Date Collected: 08/27/24 14:10
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 00:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89688	08/29/24 12:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89669	08/30/24 00:52	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 18:12	SI	EET MID

Client Sample ID: S-13 (0-3')
Date Collected: 08/27/24 14:15
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/29/24 23:47	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Client Sample ID: S-13 (0-3')
Date Collected: 08/27/24 14:15
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89689	08/29/24 12:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89551	08/29/24 23:47	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 18:20	SI	EET MID

Client Sample ID: S-14 (0-4')
Date Collected: 08/27/24 14:20
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 00:04	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89689	08/29/24 12:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89551	08/30/24 00:04	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 18:29	SI	EET MID

Client Sample ID: S-15 (0-4')
Date Collected: 08/27/24 14:25
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 00:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89689	08/29/24 12:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89551	08/30/24 00:19	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 18:37	SI	EET MID

Client Sample ID: S-16 (0-4')
Date Collected: 08/27/24 14:30
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 00:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	89689	08/29/24 12:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89551	08/30/24 00:36	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 18:45	SI	EET MID

Client Sample ID: S-17 (0-4')
Date Collected: 08/27/24 14:35
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 00:52	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Client Sample ID: S-17 (0-4')
Date Collected: 08/27/24 14:35
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	89689	08/29/24 12:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89551	08/30/24 00:52	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 19:09	SI	EET MID

Client Sample ID: S-18 (0-3')
Date Collected: 08/27/24 14:40
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 13:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89728	08/29/24 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89778	08/30/24 13:56	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 19:17	SI	EET MID

Client Sample ID: S-19 (0-3')
Date Collected: 08/27/24 14:45
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 14:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89728	08/29/24 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89778	08/30/24 14:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 19:42	SI	EET MID

Client Sample ID: S-20 (3')
Date Collected: 08/27/24 14:50
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 15:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89728	08/29/24 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89778	08/30/24 15:01	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 19:50	SI	EET MID

Client Sample ID: S-21 (3')
Date Collected: 08/27/24 14:55
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			89795	08/30/24 15:18	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Client Sample ID: S-21 (3')
Date Collected: 08/27/24 14:55
Date Received: 08/29/24 15:10

Lab Sample ID: 880-47908-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89728	08/29/24 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89778	08/30/24 15:18	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	89726	08/29/24 16:15	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89747	08/30/24 19:58	SI	EET MID

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

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Method Summary

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Method	Method Description	Protocol	Laboratory
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
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.

Laboratory References:

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

Sample Summary

Client: Crain Environmental
Project/Site: Well 410

Job ID: 880-47908-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-47908-1	S-3 (4')	Solid	08/27/24 13:55	08/29/24 15:10	4'
880-47908-2	S-4 (4')	Solid	08/27/24 14:00	08/29/24 15:10	4'
880-47908-3	S-8 (5.5')	Solid	08/27/24 14:05	08/29/24 15:10	5.5'
880-47908-4	S-12 (3')	Solid	08/27/24 14:10	08/29/24 15:10	4'
880-47908-5	S-13 (0-3')	Solid	08/27/24 14:15	08/29/24 15:10	0-3'
880-47908-6	S-14 (0-4')	Solid	08/27/24 14:20	08/29/24 15:10	0-4'
880-47908-7	S-15 (0-4')	Solid	08/27/24 14:25	08/29/24 15:10	0-4'
880-47908-8	S-16 (0-4')	Solid	08/27/24 14:30	08/29/24 15:10	0-4'
880-47908-9	S-17 (0-4')	Solid	08/27/24 14:35	08/29/24 15:10	0-4'
880-47908-10	S-18 (0-3')	Solid	08/27/24 14:40	08/29/24 15:10	0-3'
880-47908-11	S-19 (0-3')	Solid	08/27/24 14:45	08/29/24 15:10	0-3'
880-47908-12	S-20 (3')	Solid	08/27/24 14:50	08/29/24 15:10	3'
880-47908-13	S-21 (3')	Solid	08/27/24 14:55	08/29/24 15:10	3'



Environment Testing
Xenco

Chain of Custody

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



880-47908 Chain of Custody

W. xenco.com Page 1 of 2

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

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

Project Name:		Turn Around		ANALYSIS REQUEST										Preservative Codes					
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush												None: NO DI Water: H ₂ O					
Project Location:		Due Date:												Cool: Cool MeOH: Me					
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm												HCL: HC HNO ₃ : HN					
P.O. #:														H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT		Temp Blank: Yes No <input checked="" type="checkbox"/>		Wet Ice: Yes No <input checked="" type="checkbox"/>												H ₃ PO ₄ : HP			
Samples Received Intact: Yes No <input checked="" type="checkbox"/>		Thermometer ID: <input checked="" type="checkbox"/>												NaHSO ₄ : NABIS					
Cooler Custody Seals: Yes No <input checked="" type="checkbox"/>		Correction Factor: <input checked="" type="checkbox"/>												Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals: Yes No <input checked="" type="checkbox"/>		Temperature Reading: <input checked="" type="checkbox"/>												Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature: <input checked="" type="checkbox"/>												NaOH+Ascorbic Acid: SAPC					
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont											Sample Comments	
S-3 (4')		S	8/27/24	1355	4'	C	1												
S-4 (4')				1400	4'														
S-8 (5.5')				1405	5.5'														
S-12 (4')				1410	4'														
S-13 (0-3')				1415	0-3'														
S-14 (0-4')				1420	0-4'														
S-15 (0-4')				1425	0-4'														
S-16 (0-4')				1430	0-4'														
S-17 (0-4')				1435	0-4'														
S-18 (0-3')				1440	0-3'														

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		8/29/24 1510	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing Xenco

Chain of Custody

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

Work Order No: 47908

www.xenco.com Page 2 of 2[illegible]

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-47908-1

SDG Number: Lea Co., NM

Login Number: 47908

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	



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/18/2024 7:18:47 PM

JOB DESCRIPTION

WEU #410
Lea Co., NM

JOB NUMBER

880-49901-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

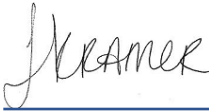
Eurofins Midland

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
10/18/2024 7:18:47 PM

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

Client: Crain Environmental
Project/Site: WEU #410

Laboratory Job ID: 880-49901-1
SDG: Lea Co., NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

Qualifiers

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: WEU #410

Job ID: 880-49901-1

Job ID: 880-49901-1

Eurofins Midland

Job Narrative 880-49901-1

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 10/16/2024 3:30 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 1.2°C.

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-15 (0-4') (880-49901-2) and S-12 (3.5') (880-49901-3). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

Client Sample ID: S-1 (0-1')

Lab Sample ID: 880-49901-1

Date Collected: 10/15/24 11:35

Matrix: Solid

Date Received: 10/16/24 15:30

Sample Depth: 0-1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/17/24 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/17/24 09:02	10/17/24 15:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/17/24 09:02	10/17/24 15:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/17/24 09:02	10/17/24 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				10/17/24 09:02	10/17/24 15:14	1
o-Terphenyl	76		70 - 130				10/17/24 09:02	10/17/24 15:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			10/17/24 20:06	1

Client Sample ID: S-15 (0-4')

Lab Sample ID: 880-49901-2

Date Collected: 10/15/24 11:40

Matrix: Solid

Date Received: 10/16/24 15:30

Sample Depth: 0-4'

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			10/17/24 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/17/24 09:02	10/17/24 15:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/17/24 09:02	10/17/24 15:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/17/24 09:02	10/17/24 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				10/17/24 09:02	10/17/24 15:45	1
o-Terphenyl	71		70 - 130				10/17/24 09:02	10/17/24 15:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			10/17/24 20:13	1

Client Sample ID: S-12 (3.5')

Lab Sample ID: 880-49901-3

Date Collected: 10/15/24 11:45

Matrix: Solid

Date Received: 10/16/24 15:30

Sample Depth: 3.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/17/24 16:00	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

Client Sample ID: S-12 (3.5')
Date Collected: 10/15/24 11:45
Date Received: 10/16/24 15:30
Sample Depth: 3.5'

Lab Sample ID: 880-49901-3
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	<50.0	U	50.0		mg/Kg		10/17/24 09:02	10/17/24 16:00	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/24 09:02	10/17/24 16:00	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/24 09:02	10/17/24 16:00	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	68	S1-	70 - 130				10/17/24 09:02	10/17/24 16:00	1	
o-Terphenyl	74		70 - 130				10/17/24 09:02	10/17/24 16:00	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	163		9.92		mg/Kg			10/17/24 20:20	1	

Surrogate Summary

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-49901-1	S-1 (0-1')	74	76
880-49901-2	S-15 (0-4')	69 S1-	71
880-49901-3	S-12 (3.5')	68 S1-	74
LCS 880-93520/2-A	Lab Control Sample	123	118
LCSD 880-93520/3-A	Lab Control Sample Dup	122	117
MB 880-93520/1-A	Method Blank	92	101
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-93520/1-A

Matrix: Solid

Analysis Batch: 93537

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 93520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/24 09:02	10/17/24 09:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/24 09:02	10/17/24 09:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/24 09:02	10/17/24 09:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				10/17/24 09:02	10/17/24 09:14	1
o-Terphenyl	101		70 - 130				10/17/24 09:02	10/17/24 09:14	1

Lab Sample ID: LCS 880-93520/2-A

Matrix: Solid

Analysis Batch: 93537

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 93520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	989.5		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	123		70 - 130				
o-Terphenyl	118		70 - 130				

Lab Sample ID: LCSD 880-93520/3-A

Matrix: Solid

Analysis Batch: 93537

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 93520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	994.5		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1037		mg/Kg		104	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	122		70 - 130						
o-Terphenyl	117		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93553/1-A

Matrix: Solid

Analysis Batch: 93566

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			10/17/24 19:25	1

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-93553/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 93566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	225.1		mg/Kg		90	90 - 110

Lab Sample ID: LCSD 880-93553/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 93566

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	226.1		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

GC Semi VOA

Prep Batch: 93520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49901-1	S-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-49901-2	S-15 (0-4')	Total/NA	Solid	8015NM Prep	
880-49901-3	S-12 (3.5')	Total/NA	Solid	8015NM Prep	
MB 880-93520/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93520/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 93537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49901-1	S-1 (0-1')	Total/NA	Solid	8015B NM	93520
880-49901-2	S-15 (0-4')	Total/NA	Solid	8015B NM	93520
880-49901-3	S-12 (3.5')	Total/NA	Solid	8015B NM	93520
MB 880-93520/1-A	Method Blank	Total/NA	Solid	8015B NM	93520
LCS 880-93520/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93520
LCSD 880-93520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93520

Analysis Batch: 93660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49901-1	S-1 (0-1')	Total/NA	Solid	8015 NM	
880-49901-2	S-15 (0-4')	Total/NA	Solid	8015 NM	
880-49901-3	S-12 (3.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 93553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49901-1	S-1 (0-1')	Soluble	Solid	DI Leach	
880-49901-2	S-15 (0-4')	Soluble	Solid	DI Leach	
880-49901-3	S-12 (3.5')	Soluble	Solid	DI Leach	
MB 880-93553/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93553/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93553/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 93566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49901-1	S-1 (0-1')	Soluble	Solid	300.0	93553
880-49901-2	S-15 (0-4')	Soluble	Solid	300.0	93553
880-49901-3	S-12 (3.5')	Soluble	Solid	300.0	93553
MB 880-93553/1-A	Method Blank	Soluble	Solid	300.0	93553
LCS 880-93553/2-A	Lab Control Sample	Soluble	Solid	300.0	93553
LCSD 880-93553/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93553

Lab Chronicle

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

Client Sample ID: S-1 (0-1')
Date Collected: 10/15/24 11:35
Date Received: 10/16/24 15:30

Lab Sample ID: 880-49901-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93660	10/17/24 15:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	93520	10/17/24 09:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93537	10/17/24 15:14	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	93553	10/17/24 13:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93566	10/17/24 20:06	CH	EET MID

Client Sample ID: S-15 (0-4')
Date Collected: 10/15/24 11:40
Date Received: 10/16/24 15:30

Lab Sample ID: 880-49901-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93660	10/17/24 15:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93520	10/17/24 09:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93537	10/17/24 15:45	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93553	10/17/24 13:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93566	10/17/24 20:13	CH	EET MID

Client Sample ID: S-12 (3.5')
Date Collected: 10/15/24 11:45
Date Received: 10/16/24 15:30

Lab Sample ID: 880-49901-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93660	10/17/24 16:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93520	10/17/24 09:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93537	10/17/24 16:00	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93553	10/17/24 13:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93566	10/17/24 20:20	CH	EET MID

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Method Summary

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

Method	Method Description	Protocol	Laboratory
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
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.

Laboratory References:

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

Sample Summary

Client: Crain Environmental
Project/Site: WEU #410

Job ID: 880-49901-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-49901-1	S-1 (0-1')	Solid	10/15/24 11:35	10/16/24 15:30	0-1'
880-49901-2	S-15 (0-4')	Solid	10/15/24 11:40	10/16/24 15:30	0-4'
880-49901-3	S-12 (3.5')	Solid	10/15/24 11:45	10/16/24 15:30	3.5'

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

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-49901-1

SDG Number: Lea Co., NM

Login Number: 49901

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Appendix D: Photographic Documentation

APPENDIX D
PHOTOGRAPHIC DOCUMENTATION
WEST EUMONT UNIT INJECTION STATION



View to SE of release point and excavation (5/2/24).



View to S of excavation (5/2/24).



View to E of excavation (5/2/24).



View to NW of excavation (5/2/24).



View to N of excavation at release point (5/2/24).



View to S of excavation (10/15/24).



View to W of excavation (10/15/24).



View to SW of excavation (10/15/24).

APPENDIX D
PHOTOGRAPHIC DOCUMENTATION
WEST EUMONT UNIT #410



View to N of excavation (10/15/24).



View to S of excavation (10/15/24).



View to N of excavation (10/15/24).



View to S of excavation (10/15/24).



Appendix E: Waste Manifests

Guns Up Services

PO Box 1176

Eunice, NM 88231

575-394-1046

gunsupservices@gmail.com

**BILL TO**

FORTY ACRES ENERGY

11757 Katy Freeway, Suite 725

HOUSTON, TX 77079

INVOICE # 36039**DATE** 02/14/2024**DUE DATE** 03/15/2024**TERMS** Net 30**LOCATION**

WEST EUMONT 210

DATE		DESCRIPTION	QTY	RATE	AMOUNT
02/02/2024	BELLY DUMP	BELLY DUMP TRUCK PER HOUR	10	105.00	1,050.00T
02/05/2024	BELLY DUMP	BELLY DUMP TRUCK PER HOUR	10	105.00	1,050.00T
02/06/2024	BELLY DUMP	BELLY DUMP TRUCK PER HOUR	10	105.00	1,050.00T

SUBTOTAL 3,150.00

TAX (5.25%) 165.38

TOTAL 3,315.38

BALANCE DUE **\$3,315.38**

APPROVED

Well Name: _____Account Code/Desc: 9031

AFE: _____

Date: 3-5-24

(LOE) or AFE

GUNS UP SERVICES, LLC

P. O. Box 1176 • Eunice, NM 88231

(575) 394-1046

No 91342

Company Name Forty Acres

Address _____

Lease or Location West Eunice Well No. 210Date 2-2-24

JOB DESCRIPTION

Drove to location and loaded
contaminated soil and took to
South Monument Surface Waste Facility.

4-ls. 80-yards total

SMSWF - Cooper Land Farm

EMPLOYEE	HRS.	RATE	TOTAL
<u>Ornelas Trucking</u>	<u>8</u>		
EQUIPMENT	HRS.	RATE	TOTAL
<u>Belly Dump</u>			
		TOTAL	

APPROVED _____ APPROVED _____

GUNS UP SERVICES, LLC

P. O. Box 1176 • Eunice, NM 88231

(575) 394-1046

No 91341

Company Name Forty Acres

Address _____

Lease or Location West Eunice Well No. 210Date 2-2-24

JOB DESCRIPTION

Drove to location and loaded
contaminated soil and took to
J&L Landfarm.

1-1d 20 yards

J&L Landfarm #

EMPLOYEE	HRS.	RATE	TOTAL
<u>Ornelas Trucking</u>	<u>2</u>		
EQUIPMENT	HRS.	RATE	TOTAL
<u>Belly Dump</u>			
		TOTAL	

APPROVED _____

APPROVED _____

GUNS UP SERVICES, LLC

P. O. Box 1176 • Eunice, NM 88231

(575) 394-1046

No 91343

Company Name Forty Acres

Address _____

Lease or Location West Eumont Well No. 210Date 2-5-24

JOB DESCRIPTION

Drove to location and loaded
contaminated soil and took to
South Monument Surface waste facility.

5-lbs. 100 yards total.

SMSWF - Cooper Landfill

EMPLOYEE	HRS.	RATE	TOTAL
<u>Danclas Trucking</u>	<u>10</u>		
EQUIPMENT	HRS.	RATE	TOTAL
<u>Belly Dump</u>			
	TOTAL		

APPROVED _____

APPROVED _____

GUNS UP SERVICES, LLC

P. O. Box 1176 • Eunice, NM 88231

(575) 394-1046

No 91344

Company Name Forty Acres

Address _____

Lease or Location West Eunice Well No. 210Date 2-6-24

JOB DESCRIPTION

Drove to location and loaded
contaminated soil and took to
South Monument Surface Waste Facility.

5 - lds. 100 Yards total

SMSW F - Coopers Land Sale

EMPLOYEE	HRS.	RATE	TOTAL
<u>Drives/soil Trucking</u>	<u>10</u>		
EQUIPMENT	HRS.	RATE	TOTAL
<u>Belly Dump</u>			
	TOTAL		

APPROVED _____

APPROVED _____

Guns Up Services
PO Box 1176
Eunice, NM 88231
575-394-1046
gunsupservices@gmail.com



BILL TO
FORTY ACRES ENERGY
11757 Katy Freeway, Suite 725
HOUSTON, TX 77079


INVOICE # 36019
DATE 02/09/2024
DUE DATE 03/10/2024
TERMS Net 30

LOCATION
WEST EUMONT 410

DATE		DESCRIPTION	QTY	RATE	AMOUNT
02/01/2024	BELLY DUMP	TKT#116005 BELLY DUMP TRUCK PER HOUR	11	105.00	1,155.00T
02/02/2024	BELLY DUMP	TKT#116006 BELLY DUMP TRUCK PER HOUR	11	105.00	1,155.00T
02/05/2024	BELLY DUMP	TKT#118189 BELLY DUMP TRUCK PER HOUR	11	105.00	1,155.00T
02/06/2024	BELLY DUMP	TKT#118190 BELLY DUMP TRUCK PER HOUR	9	105.00	945.00T

SUBTOTAL	4,410.00
TAX (5.25%)	231.53
TOTAL	4,641.53
BALANCE DUE	\$4,641.53

I O
9031
2-13-24



Received by OCD: 11/14/2024 11:50:59 AM

GUNS UP SERVICES, LLC

P.O. Box 1176 • Eunice, NM 88231
575-394-1046

No. 116005

TRUCKING WORK TICKET

Company: Fifty Acres Energy Lease: West Eumont #410

Address to Mail Invoice:

Job Description: 3 loads (20y E.A) Contaminated soil to
total 60 yards landfill

Well _____
P.O. # _____
Salesman _____
Date 2-1-24

Ticket # 3221

UNIT #	DRIVER NAME (PRINT)	N.M. MILES	TEXAS MILES	TOP GAUGE	BTM. GAUGE
106	ERIC GUERRA				

EQUIPMENT USED

MATERIALS USED

Type of Equipment	Hours	Unit Price	Total	Type of Material / Wtr. Sta. SWD Type Water Wtr. Sta / SWD	Amount Barrels/Yards	Unit Price	Total Price
Vacuum Truck		\$		Brine			\$
Winch		\$		Fresh			\$
Pump Truck		\$		Produced			\$
Helper		\$		Solids			\$
Hot Shot		\$		Jet Out			\$
Dump Truck		\$		Caliche			\$
Backhoe		\$		Top Soil			\$
Belly Dump Truck	11	105.00	\$ 1,155.00	Contaminated Soil	60Y		\$

SAFETY EQUIPMENT REQUIRED TO DO THIS JOB

SAFETY EQUIPMENT REQUIRED TO DO THIS JOB

<input type="checkbox"/> Hard Hat	<input type="checkbox"/> Lock Out / Tag Out	<input type="checkbox"/> Goggles	<input type="checkbox"/> Gloves	<input type="checkbox"/> Kne
<input type="checkbox"/> Steel Toed Boots	<input type="checkbox"/> Ground Cable	<input type="checkbox"/> Ice	<input type="checkbox"/> Socks	<input type="checkbox"/> Dust
<input type="checkbox"/> Cotton / Rubber Gloves	<input checked="" type="checkbox"/> 25' Triforce	<input type="checkbox"/> Bag	<div>Approved / Date</div>	
<input type="checkbox"/> Safety Glasses	<input type="checkbox"/> Safety Harness / Anti-Fall Device	<input type="checkbox"/> Temp _____ Degrees	<div>Customer Approval / Date</div>	
<input type="checkbox"/> Fire Extinguishers	<input type="checkbox"/> Proper Clothing	<input type="checkbox"/> Wind _____ mph		
<input type="checkbox"/> Wheel Chock	<input type="checkbox"/> Hoisting Procedures	<input type="checkbox"/> Chain Adjustment		
<input type="checkbox"/> Confined Space Permit	<input type="checkbox"/> Safety Belts	<input type="checkbox"/> Safety Grinders		
<input type="checkbox"/> Work Permit Required	<input type="checkbox"/> Other (explain) _____	<input type="checkbox"/> Mail _____ Condition		

ENVIRONMENTAL
Pollution (Personal Exposure) ☐ Y ☐ N

Signature of Lead Job Step

PRE-IOR HAZARD ASSESSMENT

LISTING

Manual Lifting (Body Posture)	Q	N
Mechanical Lifting Equipment	Q	N
Automated Body Position	Q	N
Slip / Trip Potential	Q	N
Lifting w/ Other Employees	Q	N
Proper Rigging Practices	Q	N
Proper Hoist / Material Placement	Q	N
Hot / Cold Surfaces for Material	Q	N
Inadequate Lighting	Q	N
Fall Protection / Anchor Points	Q	N
Rough Floors	Q	N
Trenching / Excavation	Q	N
Walls & Finger Hazards	Q	N
Electrical Hazards	Q	N
Welding / Flame Cutting	Q	N
Mechanical Equipment	Q	N

BODY POSITION / MOVEMENT

Climbing		Q/N	
Pushing / Pulling		Q/N	
Bending		Q/N	Hazards
Tearing Material		Q/N	
Walking		Q/N	
Swinging		Q/N	
Lowering		Q/N	
Stretching		Q/N	
Reaching		Q/N	Accident Taken as Example in Reduced Potential Hazards
Over Exerting		Q/N	
Lifting		Q/N	
Crawling		Q/N	
ACCESS / EXIT			
SoftFall (groupwork experience)		Q/Y	
Ladder		Q/Y	Customer Satisfaction
Moving of Tools / Material		Q/Y	Process Experience
Secure Position		Q/Y	Expects Expectations
			Please consult me

Grand Total

2

Driver Signature

Eric Guerra

Customer Signature _____

Company Representative (Print)

© 2000 SCIENTIFIC SOFTWARE, INC.

GUNS UP SERVICES, LLC

P.O. Box 1176 • Eunice, NM 88231

575-394-1046

No. 116006**TRUCKING WORK TICKET**Company: Forty Acres Energy Lease: West EumontAddress to Mail Invoice: unit #410Job Description: 4 loads (20 yard E.A) total 80 yards
Contaminated Soil to Landfarm Cooper

Well _____

P.O. # _____

Salesman _____

Date 2-2-24

Ticket # _____

UNIT #	DRIVER NAME (PRINT)	N M. MILES	TEXAS MILES	TOP GAUGE	BTM. GAUGE
<u>106</u>	<u>ERIC GUERRA</u>				

EQUIPMENT USED**MATERIALS USED**

Type of Equipment	Hours	Unit Price	Total	Type of Material / Wtr. Sta. SWD	Amount	Unit Price	Total Price
				Type Water	Wtr. Sta / SWD	Barrels/Yards	
Vacuum Truck			\$	Brine			\$
Winch			\$	Fresh			\$
Pump Truck			\$	Produced			\$
Helper			\$	Solids			\$
Hot Shot			\$	Jet Out			\$
Dump Truck			\$	Caliche			\$
Backhoe			\$	Top Soil			\$
Belly Dump Truck	<u>11</u>	<u>105.00</u>	<u>\$ 1,155.00</u>	Contaminated Soil	<u>80 yards</u>		\$

SAFETY EQUIPMENT REQUIRED TO DO THIS JOB

<input checked="" type="checkbox"/> Hard Hat	<input type="checkbox"/> Lock Out / Tag Out	<input type="checkbox"/> Day	<input type="checkbox"/> Day	<input type="checkbox"/> Clear
<input type="checkbox"/> Steel Toed Boots	<input type="checkbox"/> Ground Cable	<input type="checkbox"/> Ditch	<input type="checkbox"/> Night	<input type="checkbox"/> Rain
<input checked="" type="checkbox"/> Canvas / Rubber Gloves	<input type="checkbox"/> PPE / Tr. Measures	<input type="checkbox"/> Ice	<input type="checkbox"/> Snow	<input type="checkbox"/> Chalk
<input type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Safety Harness / Anchoil Device	<input type="checkbox"/> Fog	<input type="checkbox"/> Temp	<input type="checkbox"/> Degrees
<input type="checkbox"/> Fire Extinguishers	<input type="checkbox"/> Proper Clothing	<input checked="" type="checkbox"/> Wind	<input type="checkbox"/> mph	<input type="checkbox"/> Customer Approval / Date
<input type="checkbox"/> Wheel Chock	<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Churns / Fuel	<input type="checkbox"/> Sleep Grades	<input type="checkbox"/> Customer Approval / Date
<input type="checkbox"/> Confined Space Permit	<input type="checkbox"/> Safety Belts	<input type="checkbox"/> Mud	<input type="checkbox"/> Corrosion	<input type="checkbox"/> Sequence of Work / Job Sheet
<input type="checkbox"/> Work Permit Required	<input type="checkbox"/> Other (specify)			
<input type="checkbox"/> Face Shields / Goggles				
<input type="checkbox"/> Back Support Belt				

ENVIRONMENTALPollution (Petroleum Spill): ☐ Y ☒ N**PRE-JOB HAZARD ASSESSMENT****LIFTING**

Manual Lifting (Body Position)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Mechanical Lifting Equipment	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Awkward Body Position	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Slip / Trip Potential	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Lifting w/ Other Employees	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Proper Rigging / Fasteners	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Proper Tool / Material Placement	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Hot / Cold Surface or Material	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Inadequate Lighting	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Fall Protection / Anchor Points	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Push / Pull	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Trenching / Excavation	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Hand & Finger Hazards	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Electrical Hazards	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Welding / Flame Cutting	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Mechanical Equipment	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

If Yes, identify: _____

BODY POSITION / MOVEMENT

Climbing	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Pushing / Pulling	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bending	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Twisting Motion	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Walking	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Swinging	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Straining	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Stretching	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Reaching	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Over Extending	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Jumping	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Crawling	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

ACCESS / EXIT

Scaffold (properly erected)	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Ladder	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Mixing of Tools / Materials	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Secure Hoisting	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Customer Satisfaction
☐ Meets Expectations
☐ Exceeds Expectations
☐ Please contact me**Grand Total****\$**

Driver Signature

Eric Guerra

Customer Signature

Company Representative (Print)

SUPERIOR PRINTING SERVICE, INC.

GUNS UP SERVICES, LLC

P.O. Box 1176 • Eunice, NM 88231

575-394-1046

No. 118189

TRUCKING WORK TICKET

Company: 40 ACERES Lease: WEST EUNICE Well: 410
 Address to Mail Invoice: _____ P.O. # _____
 Job Description: TO LOC LOAD CONTAMINATED SOIL Salesman _____
DELV & OFFLOAD @ LANDFARM BY'S RT Date: 2.5.24

Ticket #

UNIT #	DRIVER NAME (PRINT)	N.M. MILES	TEXAS MILES	TOP GAUGE	BTM. GAUGE
<u>102</u>	<u>RICKY KENDALL</u>				

EQUIPMENT USED**MATERIALS USED**

Type of Equipment	Hours	Unit Price	Total	Type of Material / Wtr. Sta. SWD	Amount	Unit Price	Total Price
				Type Water	Wtr. Sta / SWD	Barrels/Yards	
Vacuum Truck			\$	Brine			\$
Winch			\$	Fresh			\$
Pump Truck			\$	Produced			\$
Helper			\$	Solids			\$
Hot Shot			\$	Jet Out			\$
Dump Truck			\$	Caliche			\$
Backhoe			\$	Top Soil			\$
Belly Dump Truck	<u>11</u>	<u>105.00</u>	<u>1,155.00</u>	Contaminated Soil	<u>SH3WF</u>	<u>100</u>	\$

SAFETY EQUIPMENT REQUIRED TO DO THIS JOB

<input checked="" type="checkbox"/> Hard Hat	<input checked="" type="checkbox"/> Litter Out / Tag Out	<input checked="" type="checkbox"/> Dry	<input checked="" type="checkbox"/> Clean
<input checked="" type="checkbox"/> Steel Toed Boots	<input checked="" type="checkbox"/> Ground Cable	<input checked="" type="checkbox"/> Drizzle	<input checked="" type="checkbox"/> Hoses
<input checked="" type="checkbox"/> Gloves / Rubber Gloves	<input checked="" type="checkbox"/> P25 / 50-Masks	<input checked="" type="checkbox"/> Ice	<input checked="" type="checkbox"/> Snow
<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Safety Harness / Arrestal Device	<input checked="" type="checkbox"/> Fog	<input checked="" type="checkbox"/> Dust
<input checked="" type="checkbox"/> Extinguisher	<input checked="" type="checkbox"/> Hoist / Clotting	<input checked="" type="checkbox"/> Temp. Degree	Approved / Date
<input checked="" type="checkbox"/> Wheel Chock	<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Wind	Customer Approval / Date
<input checked="" type="checkbox"/> Confined Space Permit	<input checked="" type="checkbox"/> Safety Belts	<input checked="" type="checkbox"/> Oils Required	
<input checked="" type="checkbox"/> Work Permit Required	<input checked="" type="checkbox"/> Other (specify)	<input checked="" type="checkbox"/> Soap / Grease	
<input checked="" type="checkbox"/> Face Shield / Goggles		<input checked="" type="checkbox"/> Mud	Condition
<input checked="" type="checkbox"/> Back Support Belt			Sequences of Steps, Job Steps

ENVIRONMENTALPollution (Petroleum, Explosives) ☒ Y ☒ N**PRE-JOB HAZARD ASSESSMENT**

LIFTING	BODY POSITION / MOVEMENT	ACCESS / EXIT
Manual Lifting (Bent Position)	<input checked="" type="checkbox"/> Climbing	<input checked="" type="checkbox"/> Stair / Ladder
Mechanical Lifting Equipment	<input checked="" type="checkbox"/> Pushing / Pulling	<input checked="" type="checkbox"/> Digging
Awake Body Position	<input checked="" type="checkbox"/> Binding	<input checked="" type="checkbox"/> Twisting Motion
Skip / Trip Hazard	<input checked="" type="checkbox"/> Walking	<input checked="" type="checkbox"/> Working
Lifting w/ Other Employees	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Straining
Proper Rigging Practices	<input checked="" type="checkbox"/> Sweeping	<input checked="" type="checkbox"/> Reaching
Proper Tool / Material Placement	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Over Reaching
Hot / Cold Surfaces or Materials	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Reaching
Inadequate Lighting	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Reaching
Hot Protection / Arc Flash	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Reaching
Fractured	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Reaching
Threading / Excavation	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Reaching
Hand & Finger Hazards	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Reaching
Electrical Hazards	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Reaching
Walking / Tripping / Cutting	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Reaching
Repetitive Excessively	<input checked="" type="checkbox"/> Reaching	<input checked="" type="checkbox"/> Reaching
If Yes, specify:		

Grand Total

\$

Driver Signature

Customer Signature

Company Representative (Print)

GUNS UP SERVICES, INC.

GUNS UP SERVICES, LLCP.O. Box 1176 • Eunice, NM 88231
575-394-1046

No. 118190

TRUCKING WORK TICKETCompany: 40 AcresLease: West EumontWell: 410

Address to Mail Invoice:

P.O. #

Job Description:

TO LOC. LOAD CONTAMINATED SOIL
DELV & OFFLOAD @ LANDFARM 5 X 5 RTY

Salesman

Date 2-6-24

Ticket #

UNIT #	DRIVER NAME (PRINT)	N M. MILES	TEXAS MILES	TOP GAUGE	BTM GAUGE
<u>102</u>	<u>Ricky Kendall</u>				

EQUIPMENT USED**MATERIALS USED**

Type of Equipment	Hours	Unit Price	Total	Type of Material / Wtr. Sta. SWD	Amount	Unit Price	Total Price
				Type Water	Wtr. Sta / SWD	Barrels/Yards	
Vacuum Truck			\$	Brine			\$
Winch			\$	Fresh			\$
Pump Truck			\$	Produced			\$
Helper			\$	Solids			\$
Hot Shot			\$	Jet Out			\$
Dump Truck			\$	Caliche			\$
Backhoe			\$	Top Soil			\$
Belly Dump Truck	<u>9</u>	<u>105.00</u>	<u>\$945.00</u>	Contaminated Soil	<u>SM@SWF 100</u>		\$

Type of Chemical	Units	Unit Price	Total
Degreaser		\$	
KCL Liquid		\$	
Soap		\$	

SAFETY EQUIPMENT REQUIRED TO DO THIS JOB

<input checked="" type="checkbox"/> Hard Hat	<input checked="" type="checkbox"/> Lock Out / Tag Out	<input checked="" type="checkbox"/> Chock	<input checked="" type="checkbox"/> Day	<input checked="" type="checkbox"/> Clean
<input checked="" type="checkbox"/> Steel Toed Boots	<input checked="" type="checkbox"/> Ground Cable	<input checked="" type="checkbox"/> Chock	<input checked="" type="checkbox"/> Hand	<input checked="" type="checkbox"/> Rain
<input checked="" type="checkbox"/> Gloves / Rubber Gloves	<input checked="" type="checkbox"/> HOS / Trunnions	<input checked="" type="checkbox"/> Flag	<input checked="" type="checkbox"/> Snow	<input checked="" type="checkbox"/> Dust
<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Safety Harness / Anchoed Device	<input checked="" type="checkbox"/> Temp _____ Degrees		
<input checked="" type="checkbox"/> Fire Extinguishers	<input checked="" type="checkbox"/> Protect Clothing	<input checked="" type="checkbox"/> Wind _____ mph		
<input checked="" type="checkbox"/> Wheel Chock	<input checked="" type="checkbox"/> Hoisting Procedures	<input checked="" type="checkbox"/> Choke Required		
<input checked="" type="checkbox"/> Confined Space Permit	<input checked="" type="checkbox"/> Safety Belts	<input checked="" type="checkbox"/> Snap Straps		
<input checked="" type="checkbox"/> Work Permit Required	<input checked="" type="checkbox"/> Other (explain) _____	<input checked="" type="checkbox"/> Max _____ Contaminant		
<input checked="" type="checkbox"/> Pace Striker / Goggles				
<input checked="" type="checkbox"/> Back Support Belt				

ENVIRONMENTALPollution (Percent Exposure) ☒ ☒**PRE-JOB HAZARD ASSESSMENT**

LIFTING	BODY POSITION / MOVEMENT
Manual Lifting (Body Position)	<input checked="" type="checkbox"/> Climbing
Mechanical Lifting Equipment	<input checked="" type="checkbox"/> Pushing / Pulling
Awkward Body Position	<input checked="" type="checkbox"/> Bending
Slip / Trip Potential	<input checked="" type="checkbox"/> Twisting Motion
Lifting w/ Other Employees	<input checked="" type="checkbox"/> Walking
Proper Lifting Practices	<input checked="" type="checkbox"/> Swinging
Proper Tool / Material Placement	<input checked="" type="checkbox"/> Straining
Hot / Cold Surfaces or Materials	<input checked="" type="checkbox"/> Reaching
Indicators / Lights	<input checked="" type="checkbox"/> Over Extending
Light Obstruction / Aesthetic Points	<input checked="" type="checkbox"/> Lifting
Push / Pull	<input checked="" type="checkbox"/> Carrying
Trenching / Excavation	<input checked="" type="checkbox"/> ACCESS / EXIT
Hand & Finger Hazards	<input checked="" type="checkbox"/> Scaffold (properly mounted)
Electrical Hazards	<input checked="" type="checkbox"/> Scaffolding
Welding / Flame Cutting	<input checked="" type="checkbox"/> Hoisting w/ Tack / Material
Mechanical Equipment	<input checked="" type="checkbox"/> Stairs / Ladders

Grand Total

\$

Driver Signature

Customer Signature

Company Representative (Print)

SUPERIOR PRINTING SERVICE, INC.

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

120 YARDS

Date: 10-21-24
Generator: Forty Acres
Job #: J&L # 3511
Trucking Co: MATA # 49
Site Location: West Eganmont # 410
Total Yards/Day: (20 yds) (✓) 20 yds
Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 7.24.24
Generator: Forty Acres
Job #: J&L # 3479
Trucking Co: M. Mata # 51
Site Location: West Enmore Unit 410
Total Yards/Day: 20 yds/day
Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 7-25-24
Generator: Forty Acres
Job #: J+L # 3429
Trucking Co: M. Mata #151
Site Location: West Eumont Unit 410
Total Yards/Day: (2000) 11 4.0 yds
Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 7.24.24

Generator: Forty Acres

Job #: J&L # 3459

Trucking Co: M. Mata # 46

Site Location: West Eganost. Unit 412

Total Yards/Day: (20 ea) 11 40 yds

Landfarm Representative: David Jett

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 403318

QUESTIONS

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 403318
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2404472013
Incident Name	NAPP2404472013 WEST EUMONT UNIT #410 @ 30-025-04387
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-04387] WEST EUMONT UNIT #410

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WEST EUMONT UNIT #410
Date Release Discovered	02/01/2024
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	Cause: Corrosion Flow Line - Production Crude Oil Released: 15 BBL Recovered: 0 BBL Lost: 15 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 15 BBL Recovered: 0 BBL Lost: 15 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.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 403318

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 403318
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 07/08/2024
--	---

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 403318

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 403318
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 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	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4150
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3280
GRO+DRO (EPA SW-846 Method 8015M)	3280
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/19/2024
On what date will (or did) the final sampling or liner inspection occur	09/16/2024
On what date will (or was) the remediation complete(d)	10/31/2024
What is the estimated surface area (in square feet) that will be reclaimed	14500
What is the estimated volume (in cubic yards) that will be reclaimed	1074
What is the estimated surface area (in square feet) that will be remediated	14500
What is the estimated volume (in cubic yards) that will be remediated	2148
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 403318

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 403318
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	TNM-95-54 [fAB0000000064]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<small>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.</small>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 07/08/2024
<small>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.</small>	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 403318

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 403318
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 403318

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 403318
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	391987
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/15/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	100

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3000
What was the total volume (cubic yards) remediated	800
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	3000
What was the total volume (in cubic yards) reclaimed	800
Summarize any additional remediation activities not included by answers (above)	The excavation will be backfilled upon approval of this Closure Report

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

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

I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 11/14/2024
--	---

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 403318

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 403318
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 403318

CONDITIONS

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 403318
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	2/27/2025