Remediation Summary and Closure Report

April 2, 2025

West Eumont Unit #525
Produced Water Release
Incident No. nAPP2405856306
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

Cynthia K. Crain, P.G.

Crain Environmental

Table of Contents

TABLES

FIGURES

APPENDICES

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 release at West Eumont Unit #525 (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 are 32.533204, -103.328195. 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 22, 2024, a release from a flowline located approximately 144 feet (') west of the West Eumont Unit #525 was discovered. As a result of corrosion, approximately 22 barrels (bbls) of produced water were released. Immediately following the release, the area was secured, a vacuum truck was mobilized to the Site, and the line was repaired. The released fluid covered a surface area of approximately 420 square feet. Approximately 17 bbls of fluid were recovered. The release point and the surface extent of the release are depicted on Figure 2.

A Notification of Release (NOR) was submitted to the New Mexico Oil Conservation Division (NMOCD) on February 27, 2024, and Incident #nAPP2405856306 was assigned. An Initial Form C-141 (Release Notification Report) was submitted February 28, 2024. On July 30, 2024, the NMOCD approved an extension for submittal of a Site Characterization Report and Remediation Workplan until August 20, 2024.

A *Site Characterization Report and Remediation Workplan* was submitted to the NMOCD on August 9, 2024, and the Workplan was approved by the NMOCD on August 12, 2024, with a due date of November 12, 2024, to submit a final remediation closure report. Extensions were requested by FAE on October 14, 2024, and February 5, 2025, and were approved by the NMOCD on October 15, 2024 (until February 10, 2025) and February 6, 2026 (until April 11, 2025).

Soil remediation has been completed, and this Remediation Summary and Closure Report has been prepared prior to the due date of April 11, 2025, in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC). Appendix A provides a copy of 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 0.5 mile of the Site; however, FAE provided documentation that a well (L-15554 POD 1) was installed on August 25, 2023, to a depth of 105' below ground surface (bgs) and groundwater was not encountered. The well is listed in the table below. Figure 3 provides a 0.5-mile radius circle around the Site and shows the location of well L-15554 POD 1. The well log is provided in Appendix B. Based on the available water well data, it is estimated that depth to groundwater at the Site is greater than 100 feet bgs.

Nearby Water Wells

Well ID	Location from Release Site	Year Installed	Use	Total Depth / Depth to Water (feet bgs)
L-15554 POD 1	Approx. 2,836 feet to NE	2023	N/A	105 / DRY

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

At depths greater than 4’ bgs, the Closure Criteria applicable to the Site will be based on the estimated depth to groundwater, which dictates the least stringent Closure Criteria typically associated with groundwater depths of greater than 100 feet bgs. From the surface to a depth of 4’ bgs, the most stringent Closure Criteria will apply. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

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

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

4.0 Site Assessment/Characterization Results

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

4.1 Site Map

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

4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown; however, a water well was drilled approximately 2,836 feet northeast of the Site in 2023 to a depth of 105', and groundwater was not encountered. Depth to groundwater is estimated be greater than 100' bgs at the Site.

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 August 12, 2024, excavation was continued until five-point confirmation samples were collected from the bottom and sidewalls of the excavation on February 26 and March 13, 2025, reported chloride concentrations below the NMOCD Closure Criteria.

All confirmation samples 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 collected in February 26, 2025, were analyzed for total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, for benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX) by EPA SW-846 Method 8021B, and for chlorides by EPA Method 300. Samples collected on March 13, 2025, were only analyzed for chlorides, as approved in the *Site Characterization Report and Remediation Workplan.*

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

Referring to Table 1, concentrations of BTEX were reported below the test method detection limits in each sample, and concentrations of TPH and chlorides were reported below the Closure Criteria in all final samples. The dimensions of the final excavation measured 36’ x 33’ and covered a surface area of 1,188 square feet.

All affected soil has been excavated, and 400 cubic yards (cy) of soil were hauled to J&L Landfarm for disposal on March 25 and 26, 2025. Waste Manifests are provided in Appendix E.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Laboratory data in Job Numbers 880-46542-1, 880-54955-1, and 880-55704-1 generated by Eurofins, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix C.

5.0 Request for Closure

A total of 400 cy of soil was excavated and hauled to disposal at 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. The dimensions of the final excavation measured 36’ x 33’ and covered a surface area of 1,188 square feet.

Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a nearby pit. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original

conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

FAE respectfully requests the closure of Incident #nAPP2405856306.

6.0 Distribution

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

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

TABLE

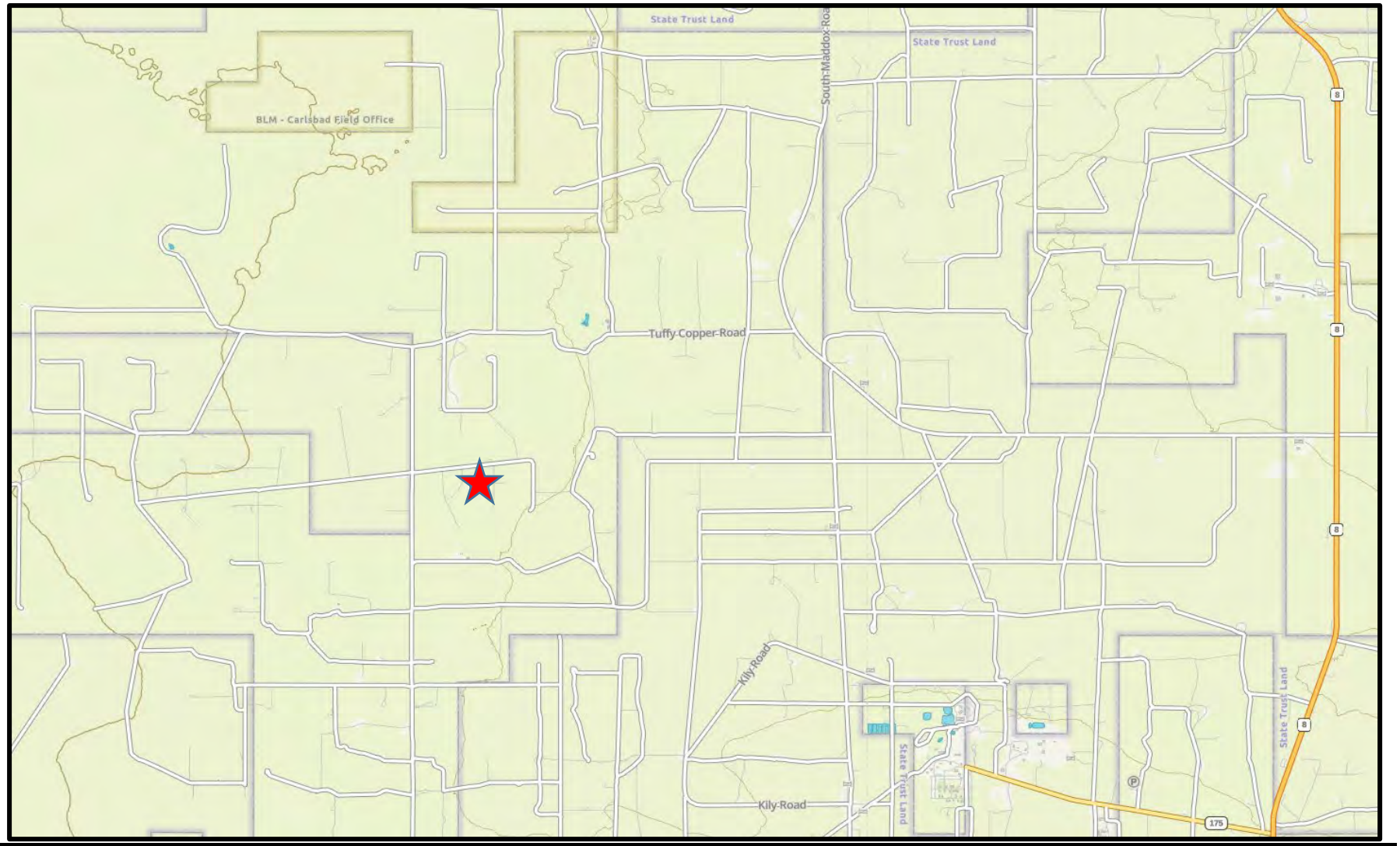
TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FORTY ACRES ENERGY, LLC
WEST EUMONT UNIT #525 (30-025-45482)
NMOCD INCIDENT # nAPP2405856306

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							**100**	**10**	**-**	**-**	**-**	**50**	**600**
NMOCD Closure Criteria (>4' bgs)				**GRO + DRO = 1,000**		**-**	**2,500**	**10**	**-**	**-**	**-**	**50**	**20,000**
S-1 (0-4')	07/25/24	0-4'	Excavated	<14.4	**15.3**	<15.0	**15.3 J**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**10,900**
S-1 (4.1')	02/26/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**18,100**
S-2 (0-4')	07/25/24	0-4'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**398**
S-2 (0-4.1')	02/26/25	0-4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**81.1**
S-3 (0-4')	07/25/24	0-4'	Excavated	<14.5	**89.8**	<15.1	**89.8**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**8,780**
S-3 (4.1')	02/26/25	4.1'	In Situ	<49.8	**85.6**	<49.8	**85.6**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**19,200**
S-4 (0-3')	07/25/24	0-3'	Excavated	<14.4	<15.0	<15.0	<15.0	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**8,540**
S-4 (4.1')	02/26/25	4.1'	In Situ	<49.8	**61.1**	<49.8	**61.1**	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**11,300 F1**
S-5 (0-4')	07/25/24	0-4'	Excavated	<14.5	**47.8**	<15.1	**47.8 J**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**5,270**
S-5 (4.1')	02/26/25	0-4.1'	In Situ	<49.7	**470**	<49.7	**470**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**9,350**
S-6 (2')	07/25/24	2'	Excavated	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**70.8**
S-6 (0-4.1')	02/26/25	0-4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	**0.0118**	<0.00398	<0.00398	**89.9**
S-7 (5')	07/25/24	5'	Excavated	<14.5	**50.9**	<15.1	**50.9**	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**116**
S-7 (5')	02/26/25	5'	Excavated	<50.0	**238**	<50.0	**238**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**88,800**
S-7 (6')	03/13/25	6'	In Situ	--	**--**	--	**--**	--	--	--	--	--	**1,140**
S-8 (1')	07/25/24	1'	Excavated	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**31.8**
S-8 (0-4.1')	02/26/25	0-4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**101**
S-9 (0-4.1')	02/26/25	0-4.1'	Excavated	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**2,900**
S-9 (0-4')	03/13/25	0-4'	In Situ	--	--	--	--	--	--	--	--	--	**387**
S-10 (0-4.1')	02/26/25	0-4.1'	Excavated	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	**780**
S-10 (0-4')	03/13/25	0-4'	In Situ	--	--	--	--	--	--	--	--	--	**200**
S-11 (0-4.1')	02/26/25	0-4.1'	Excavated	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**10,300**
S-11 (0-4')	03/13/25	0-4'	In Situ	--	--	--	--	--	--	--	--	--	**148**
S-12 (0-4.1')	02/26/25	0-4.1'	Excavated	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**13,100**
S-12 (0-4')	03/13/25	0-4'	In Situ	--	--	--	--	--	--	--	--	--	**123**

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. J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

FIGURES



LEGEND:

Site Location

Base Map From GAIA GPS

Figure 1

Site Location Map

Forty Acres Energy, LLC

West Eumont Unit #525

Lea County, New Mexico

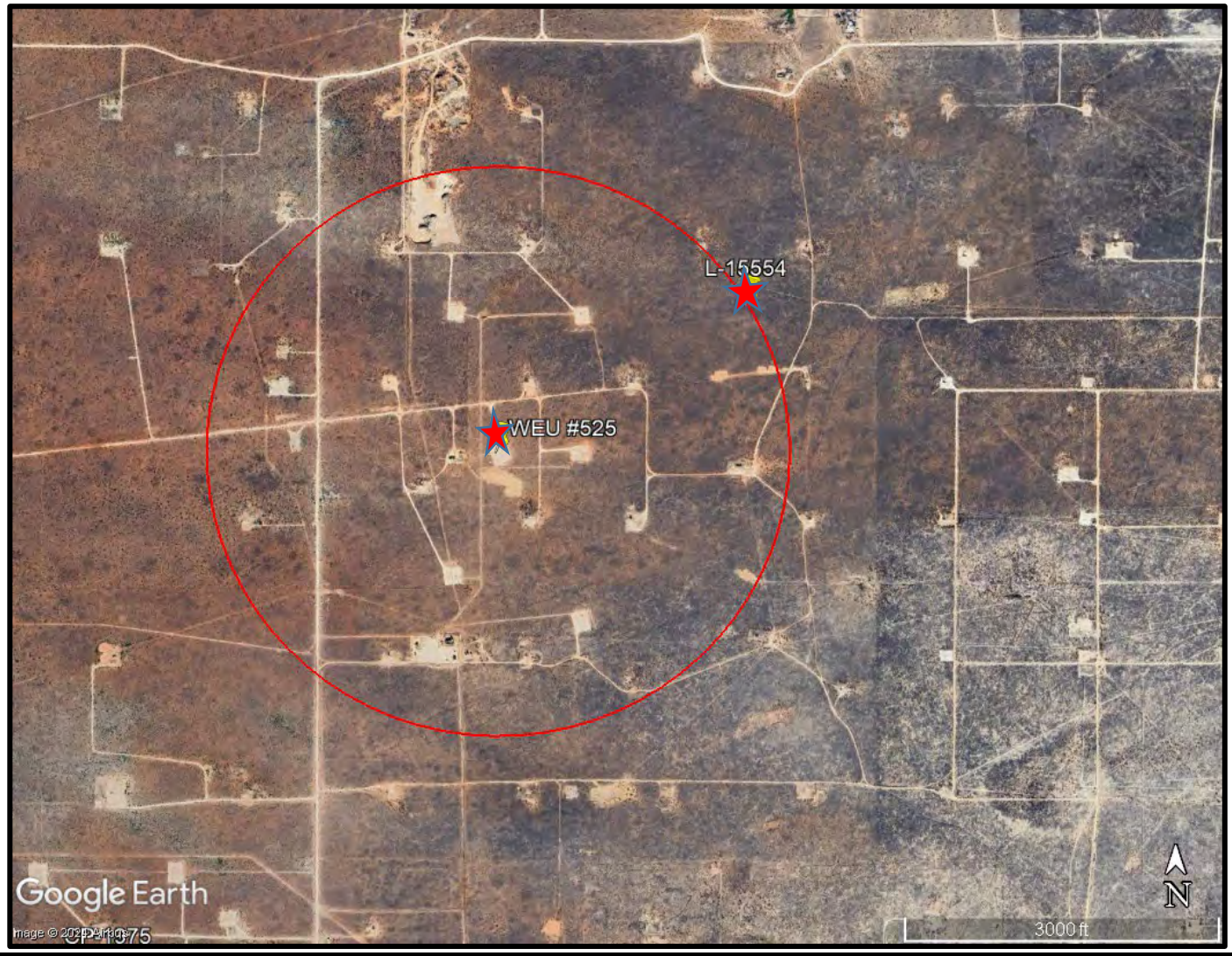
Drafted by: CC | Checked by: CC

Draft: August 8, 2024

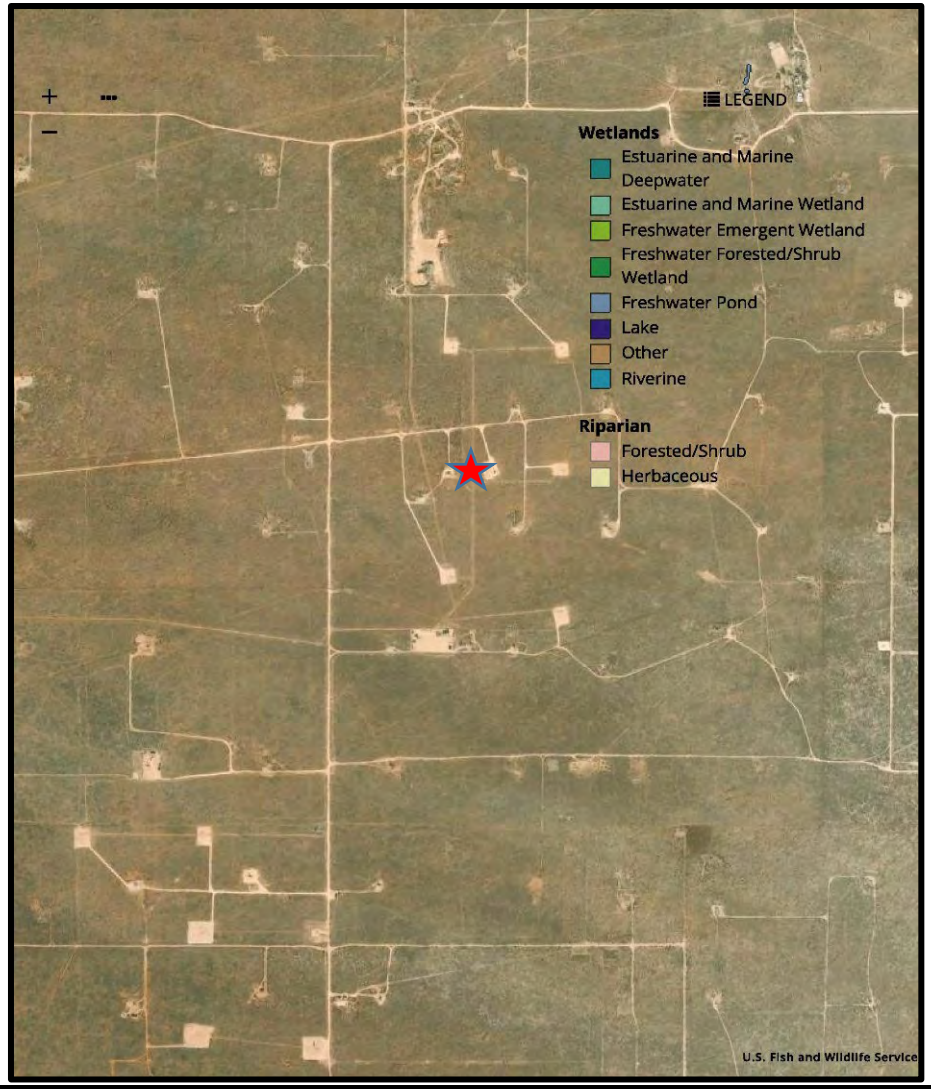
GPS: 32.533204° -103.328195°

Grain Environmental

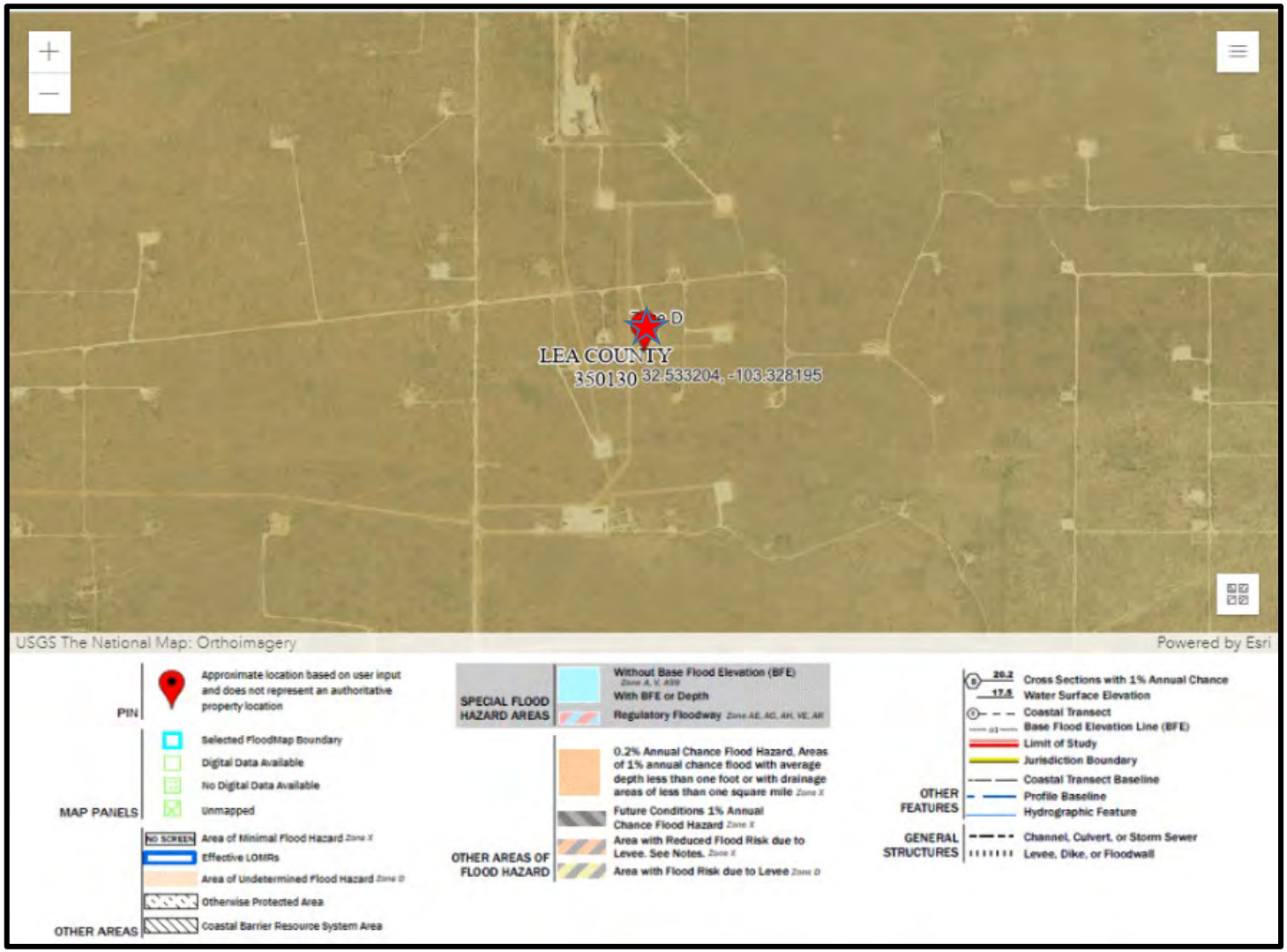
LEGEND: Soil Sample Location With Sample Number Release Point Excavation Boundary Base Map From Google Earth Pro	**Figure 2** **Soil Sample Location Map** Forty Acres Energy, LLC West Eumont Unit #525 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: April 1, 2025 GPS: 32.533204° -103.328195°	Grain Environmental



LEGEND: Site Location and Water Well Location Base Map From Google Earth Pro	**Figure 3** **Wellhead Protection Area Map** Forty Acres Energy, LLC West Eumont Unit #525 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: August 8, 2024 GPS: 32.533204° -103.328195°	Grain Environmental



LEGEND: Site Location Base Map From US Fish & Wildlife Service	**Figure 4** **National Wetlands Inventory Map** Forty Acres Energy, LLC West Eumont Unit #525 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: August 8, 2024 GPS: 32.533204° -103.328195°



LEGEND:

Site Location

Base Map From FEMA

Figure 5

FEMA Floodplain Map

Forty Acres Energy, LLC

West Eumont Unit #525

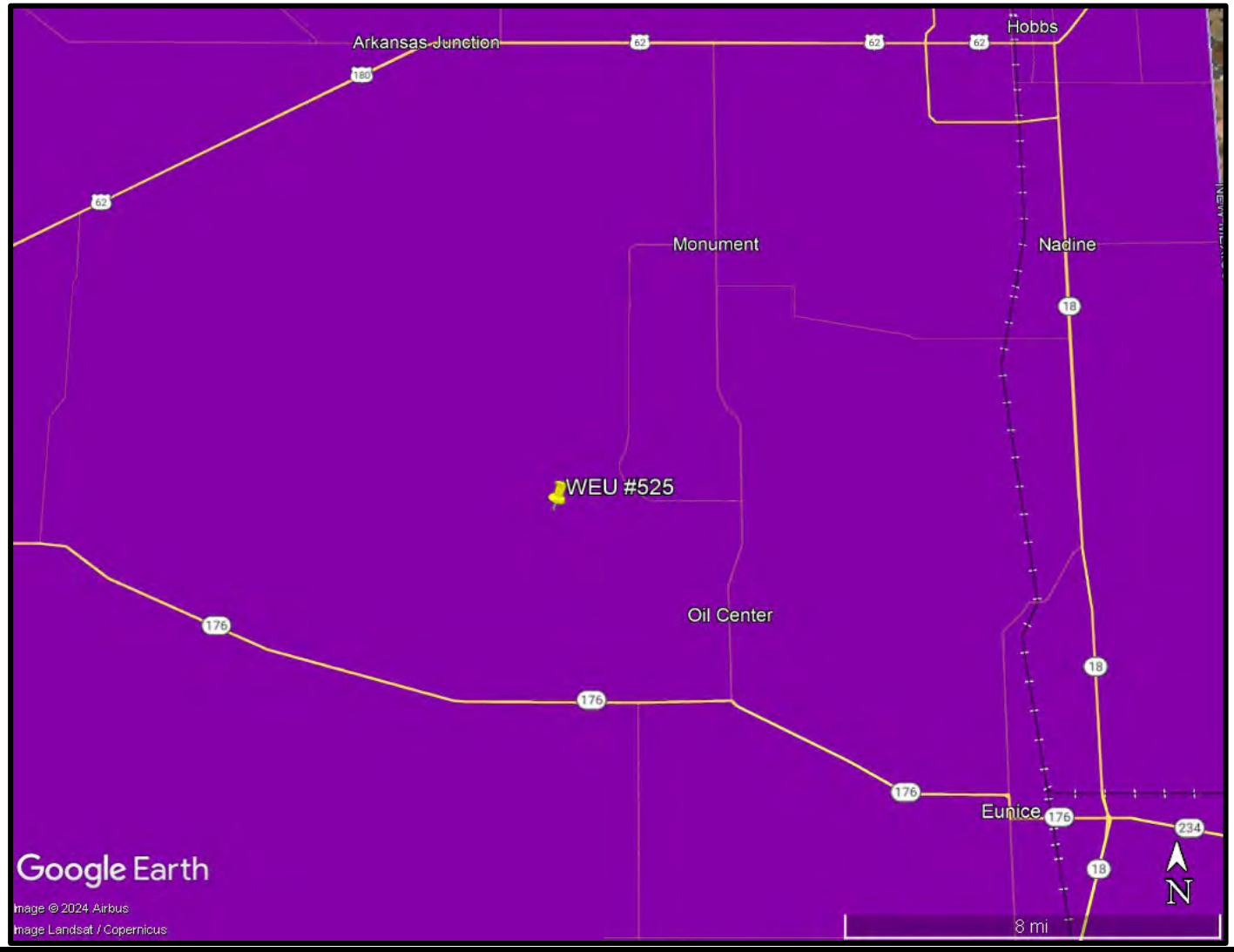
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: August 8, 2024

GPS: 32.533204° -103.328195°

Grain Environmental



LEGEND: Low Karst Potential Medium Karst Potential High Karst Potential Base Map From Google Earth Pro and BLM	**Figure 6** **Karst Potential Map** Forty Acres Energy, LLC West Eumont Unit #525 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: August 8, 2024 GPS: 32.533204° -103.328195°

Appendix A: NMOCD Correspondence

The Oil Conservation Division (OCD) has approved the application, Application ID: 372361

Inbox

OCDOnline@state.nm.us Aug 12, 2024, 10:25 AM (2 days ago)

to me

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#) nAPP2405856306,
with the following conditions:

- **The remediation plan is approved as written. FAE has 90-days (November 12, 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

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Tuesday, July 30, 2024 4:09 PM
To: Alex Bolanos <alex@faenergyus.com>
Subject: Re: [EXTERNAL] Forty Acres Energy C-141 Extension Request

Good afternoon Alex,

Thank you for the inquiry. Your time extension is approved. Remediation Due date has been updated to August 20, 2024.

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

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

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

From: Alex Bolanos <alex@faenergyus.com>
Sent: Friday, July 12, 2024 10:01 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Forty Acres Energy C-141 Extension Request

Thank you Nelson for providing additional time on these. We will be working them over the next few weeks. We did get a characterization submitted on the #410 & #210. There was one in addition to the ones I requested an extension on last week that we need a little more time on. Please see below.

Thanks,
Alex

Incident Number	Location	Engineer	Operational Status	Filing Status	Current OCD Due Date	Surface Owner	En
nAPP2405856306	WEU 525	Ryan	CLEANED UP SPILL	C-141 Notification Sent	5/22/2024	Private	Cindy putting together Char report. Hiring new

Forty Acres Energy__C-141 Extension Requests

Inbox

Alex Bolanos Oct 14, 2024, 10:35 AM
to Nelson,, Ryan, me

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 Oct 15, 2024, 4:18 PM
to Alex, Ryan, me

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

Gmail

Cindy Crain <cindy.crain@gmail.com>

OCD Extension Requests Needed

4 messages

Cindy Crain <cindy.crain@gmail.com> Thu, Jan 30, 2025 at 11:35 AM
To: Alex Bolanos <alex@faenergyus.com>
Cc: Billy Moore <billy@faenergyus.com>, Ryan Swift <ryan@faenergyus.com>

Hi Alex,

Just a reminder that Closure Reports are due to the OCD for the RR Bell TB on 2/3/25 and the WEU 525 on 2/10/25.

We need to request another 90-day extension for both of these sites.

Please let me know if you have any questions or need additional information.

Thank you,
Cindy Crain
--
Crain Environmental
2925 East 17th Street
Odessa, TX 79761
(575) 441-7244

Alex Bolanos <alex@faenergyus.com> Wed, Feb 5, 2025 at 3:57 PM
To: "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>
Cc: Billy Moore <billy@faenergyus.com>, Cindy Crain <cindy.crain@gmail.com>

Nelson,

We are still working on the following releases, but will need to request an 90- day extension in order to continue to dig and get additional sampling done at each of these locations.

Incident Number	Location	Engineer	Operational Status	Filing Status	Current OCD Due Date	Surface Owner
nAPP2405454076	West Eumont Unit #405-RR BELL	Ryan	Phase 1 and 2 have been done. This needs additional sampling and digging to occur	Closure/Deferral	2/3/2025	COOPER, DALE FAMILY TRUS
nAPP2405856306	WEU 525	Ryan	Phase 1 and 2 have been done. This needs additional sampling and digging to occur	Closure/Deferral	2/10/2025	Private

Thanks,

Alex

[Quoted text hidden]

Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov> Thu, Feb 6, 2025 at 9:22 AM
To: Alex Bolanos <alex@faenergyus.com>
Cc: Billy Moore <billy@faenergyus.com>, Cindy Crain <cindy.crain@gmail.com>

Alex,

Thank you for the correspondence. Both incidents have already had time extensions approved.

NAPP2405454076 R R BELL BATTERY @ 30-025-04401 will be approved for 30-days. Remediation Due date has been updated to March 5, 2025 from the previous due date.

NAPP2405856306 WEST EUMONT UNIT #525 @ 30-025-45482 will be approved for 60-days. Remediation Due date has been updated to April 11, 2025.

This will be the last time extension granted for these incidents unless extraordinary circumstances arise. Failure to submit an appropriate and/or final remediation closure report by the deadline for incident ID NAPP2405454076 R R BELL BATTERY @ 30-025-04401 could result in compliance and enforcement penalties pursuant to 19.15.5 NMAC. OCD will use its discretion to determine if additional enforcement action is warranted. Cooperation from FAE II will be considered when determining any enforcement actions, which may include civil penalties.

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

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

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

From: Alex Bolanos <alex@faenergyus.com>
Sent: Wednesday, February 5, 2025 2:57 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Billy Moore <billy@faenergyus.com>; Cindy Crain <cindy.crain@gmail.com>
Subject: [EXTERNAL] FW: OCD Extension Requests Needed

[Quoted text hidden]

Alex Bolanos <alex@faenergyus.com> Thu, Feb 6, 2025 at 10:02 AM
To: "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>
Cc: Billy Moore <billy@faenergyus.com>, Cindy Crain <cindy.crain@gmail.com>, Ryan Swift <ryan@faenergyus.com>

Thank you Nelson.

[Quoted text hidden]

Grain Environmental

Appendix B: Well Record and Log

32.537111, -103.320528

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
Pod-1		L-15554

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Forty Acres Energy	346-254-9544

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
11757 Katy Freeway	Houston	TX	77079

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	32	13.6	N
	LONGITUDE	-103	19	13.9	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1839	Boyd Coffey	Coffey Drilling

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8-25-2023	8-25-2023	105	105	NA

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): NA

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	100	6.5	2 3/8	Threaded	2	SCh 40	
100	105	6.5	2 3/8	Threaded	2	SCH 40	0.035

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	20	6.5	Bentonite Quick grout	3.5	Tremie
20	105	6.5	Native fill	22	Pour

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	6	6	Tan Top soil	Y ✓ N	
6	48	42	White Caliche	Y ✓ N	
48	96	48	Tan Soft SandStone	Y ✓ N	
96	100	4	Red Clay	Y ✓ N	
100	105	5	Course sand and gravel	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☑ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Grain Environmental

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/11/2025 5:04:47 PM Revision 2

JOB DESCRIPTION

Well #525
Lea Co. NM

JOB NUMBER

880-54955-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

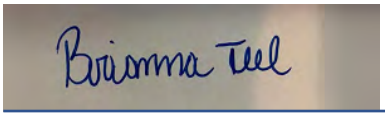
Eurofins Midland

Job Notes

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

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

Authorization



Generated
3/11/2025 5:04:47 PM
Revision 2

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

Client: Crain Environmental
Project/Site: Well #525

Laboratory Job ID: 880-54955-1
SDG: Lea Co. NM

Table of Contents

Definitions/Glossary

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Well #525

Job ID: 880-54955-1

Job ID: 880-54955-1 Eurofins Midland

Job Narrative
880-54955-1

REVISION

The report being provided is a revision of the original report sent on 3/4/2025. The report (revision 2) is being revised due to Per client email to change sample IDs S-1(0-4.1') to S-1 (4.1') and S-7(-4.1') to S-7 (5').

Report revision history
Revision 1 - 3/11/2025 - Reason - Per client email, requesting sample depth correction and chloride re run.

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 2/26/2025 4:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (4.1') (880-54955-1), S-2 (0-4.1') (880-54955-2), S-3 (4.1') (880-54955-3), S-4 (4.1') (880-54955-4), S-5 (4.1') (880-54955-5), S-6 (0-4.1') (880-54955-6), S-7 (5') (880-54955-7), S-8 (0-4.1') (880-54955-8), S-9 (0-4.1') (880-54955-9), S-10 (0-4.1') (880-54955-10), S-11 (0-4.1') (880-54955-11) and S-12 (0-4.1') (880-54955-12).

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-103780 and 880-103806 and analytical batch 880-103820 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-4 (4.1') (880-54955-4), S-5 (4.1') (880-54955-5), S-6 (0-4.1') (880-54955-6), S-8 (0-4.1') (880-54955-8), S-9 (0-4.1') (880-54955-9), S-10 (0-4.1') (880-54955-10), S-12 (0-4.1') (880-54955-12), (880-54955-A-6-B MS) and (880-54955-A-6-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-103806 and analytical batch 880-103820 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-103858 and analytical batch 880-103884 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Case Narrative

Client: Crain Environmental
Project: Well #525

Job ID: 880-54955-1

Job ID: 880-54955-1 (Continued)

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-1 (4.1')

Date Collected: 02/26/25 10:30
Date Received: 02/26/25 16:35
Sample Depth: 4.1'

Lab Sample ID: 880-54955-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 11:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 11:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 11:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:09	02/28/25 11:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 11:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:09	02/28/25 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*02/27/25 11:09*	*02/28/25 11:30*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/27/25 11:09*	*02/28/25 11:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/25 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/28/25 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/26/25 16:52	02/28/25 00:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/26/25 16:52	02/28/25 00:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/26/25 16:52	02/28/25 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*02/26/25 16:52*	*02/28/25 00:08*	*1*
o-Terphenyl	*116*		*70 - 130*	*02/26/25 16:52*	*02/28/25 00:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18100**		202		mg/Kg			03/01/25 13:35	20

Client Sample ID: S-2 (0-4.1')

Date Collected: 02/26/25 10:35
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

Lab Sample ID: 880-54955-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 11:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 11:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 11:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:09	02/28/25 11:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 11:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:09	02/28/25 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*02/27/25 11:09*	*02/28/25 11:51*	*1*

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-2 (0-4.1')
Date Collected: 02/26/25 10:35
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

Lab Sample ID: 880-54955-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/27/25 11:09*	*02/28/25 11:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/28/25 11:51	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			02/28/25 00:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/26/25 16:52	02/28/25 00:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/26/25 16:52	02/28/25 00:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/26/25 16:52	02/28/25 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*02/26/25 16:52*	*02/28/25 00:24*	*1*
o-Terphenyl	*112*		*70 - 130*	*02/26/25 16:52*	*02/28/25 00:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.1**		9.94		mg/Kg			03/01/25 13:41	1

Client Sample ID: S-3 (4.1')
Date Collected: 02/26/25 10:40
Date Received: 02/26/25 16:35
Sample Depth: 4.1'

Lab Sample ID: 880-54955-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 12:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:09	02/28/25 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 12:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:09	02/28/25 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*02/27/25 11:09*	*02/28/25 12:11*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/27/25 11:09*	*02/28/25 12:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 12:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.6**		49.8		mg/Kg			02/28/25 00:40	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-3 (4.1')

Date Collected: 02/26/25 10:40
Date Received: 02/26/25 16:35
Sample Depth: 4.1'

Lab Sample ID: 880-54955-3

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	<49.8	U	49.8		mg/Kg		02/26/25 16:52	02/28/25 00:40	1
Diesel Range Organics (Over C10-C28)	**85.6**		49.8		mg/Kg		02/26/25 16:52	02/28/25 00:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/26/25 16:52	02/28/25 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*02/26/25 16:52*	*02/28/25 00:40*	*1*
o-Terphenyl	*111*		*70 - 130*	*02/26/25 16:52*	*02/28/25 00:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19200**		198		mg/Kg			03/01/25 13:46	20

Client Sample ID: S-4 (4.1')

Date Collected: 02/26/25 10:45
Date Received: 02/26/25 16:35
Sample Depth: 4.1'

Lab Sample ID: 880-54955-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:09	02/28/25 12:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:09	02/28/25 12:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:09	02/28/25 12:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/27/25 11:09	02/28/25 12:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:09	02/28/25 12:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/27/25 11:09	02/28/25 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*02/27/25 11:09*	*02/28/25 12:32*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/27/25 11:09*	*02/28/25 12:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/28/25 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**61.1**		49.8		mg/Kg			02/28/25 00:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/26/25 16:52	02/28/25 00:56	1
Diesel Range Organics (Over C10-C28)	**61.1**		49.8		mg/Kg		02/26/25 16:52	02/28/25 00:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/26/25 16:52	02/28/25 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*02/26/25 16:52*	*02/28/25 00:56*	*1*
o-Terphenyl	*116*		*70 - 130*	*02/26/25 16:52*	*02/28/25 00:56*	*1*

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-4 (4.1')
Date Collected: 02/26/25 10:45
Date Received: 02/26/25 16:35
Sample Depth: 4.1'

Lab Sample ID: 880-54955-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11300**	**F1**	202		mg/Kg			03/01/25 13:52	20

Client Sample ID: S-5 (4.1')
Date Collected: 02/26/25 10:50
Date Received: 02/26/25 16:35
Sample Depth: 4.1'

Lab Sample ID: 880-54955-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 12:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 12:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 12:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:09	02/28/25 12:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 12:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:09	02/28/25 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/27/25 11:09*	*02/28/25 12:52*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/27/25 11:09*	*02/28/25 12:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**470**		49.7		mg/Kg			02/28/25 01:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/26/25 16:52	02/28/25 01:12	1
Diesel Range Organics (Over C10-C28)	**470**		49.7		mg/Kg		02/26/25 16:52	02/28/25 01:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/26/25 16:52	02/28/25 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*02/26/25 16:52*	*02/28/25 01:12*	*1*
o-Terphenyl	*126*		*70 - 130*	*02/26/25 16:52*	*02/28/25 01:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9350**		99.8		mg/Kg			03/01/25 14:10	10

Client Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-6 (0-4.1')

Date Collected: 02/26/25 10:55
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

Lab Sample ID: 880-54955-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 13:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 13:13	1
Ethylbenzene	**0.0118**		0.00199		mg/Kg		02/27/25 11:09	02/28/25 13:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/25 11:09	02/28/25 13:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/25 11:09	02/28/25 13:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/25 11:09	02/28/25 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*02/27/25 11:09*	*02/28/25 13:13*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/27/25 11:09*	*02/28/25 13:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0118**		0.00398		mg/Kg			02/28/25 13:13	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			02/28/25 03:19	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	<49.9	U F1	49.9		mg/Kg		02/27/25 08:28	02/28/25 03:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		02/27/25 08:28	02/28/25 03:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/25 08:28	02/28/25 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*02/27/25 08:28*	*02/28/25 03:19*	*1*
o-Terphenyl	*111*		*70 - 130*	*02/27/25 08:28*	*02/28/25 03:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.9**		10.1		mg/Kg			03/01/25 14:16	1

Client Sample ID: S-7 (5')

Date Collected: 02/26/25 11:00
Date Received: 02/26/25 16:35
Sample Depth: 4.1'

Lab Sample ID: 880-54955-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 13:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 13:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 13:33	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 11:30	02/28/25 13:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 13:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 11:30	02/28/25 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*02/27/25 11:30*	*02/28/25 13:33*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-7 (5')
Date Collected: 02/26/25 11:00
Date Received: 02/26/25 16:35
Sample Depth: 4.1'

Lab Sample ID: 880-54955-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/27/25 11:30*	*02/28/25 13:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/28/25 13:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**238**		50.0		mg/Kg			02/28/25 04:07	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		02/27/25 08:28	02/28/25 04:07	1
Diesel Range Organics (Over C10-C28)	**238**		50.0		mg/Kg		02/27/25 08:28	02/28/25 04:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 08:28	02/28/25 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*02/27/25 08:28*	*02/28/25 04:07*	*1*
o-Terphenyl	*113*		*70 - 130*	*02/27/25 08:28*	*02/28/25 04:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88800**		994		mg/Kg			03/11/25 01:27	100

Client Sample ID: S-8 (0-4.1')
Date Collected: 02/26/25 11:05
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

Lab Sample ID: 880-54955-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 13:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 13:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 13:54	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:30	02/28/25 13:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 13:54	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:30	02/28/25 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*02/27/25 11:30*	*02/28/25 13:54*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*02/27/25 11:30*	*02/28/25 13:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 13:54	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			02/28/25 04:22	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-8 (0-4.1')

Lab Sample ID: 880-54955-8
Matrix: Solid
Date Collected: 02/26/25 11:05
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/27/25 08:28	02/28/25 04:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/27/25 08:28	02/28/25 04:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/27/25 08:28	02/28/25 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*02/27/25 08:28*	*02/28/25 04:22*	*1*
o-Terphenyl	*114*		*70 - 130*	*02/27/25 08:28*	*02/28/25 04:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		9.92		mg/Kg			03/01/25 14:39	1

Client Sample ID: S-9 (0-4.1')

Lab Sample ID: 880-54955-9
Matrix: Solid
Date Collected: 02/26/25 11:10
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 14:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 14:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 14:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:30	02/28/25 14:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:30	02/28/25 14:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:30	02/28/25 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/27/25 11:30*	*02/28/25 14:15*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/27/25 11:30*	*02/28/25 14:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 14:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/28/25 04:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 04:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 04:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*02/27/25 08:28*	*02/28/25 04:39*	*1*
o-Terphenyl	*118*		*70 - 130*	*02/27/25 08:28*	*02/28/25 04:39*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-9 (0-4.1')

Lab Sample ID: 880-54955-9
Matrix: Solid
Date Collected: 02/26/25 11:10
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		50.2		mg/Kg			03/01/25 14:45	5

Client Sample ID: S-10 (0-4.1')

Lab Sample ID: 880-54955-10
Matrix: Solid
Date Collected: 02/26/25 11:15
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:09	02/28/25 14:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:09	02/28/25 14:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:09	02/28/25 14:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/27/25 11:09	02/28/25 14:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/27/25 11:09	02/28/25 14:35	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/27/25 11:09	02/28/25 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/27/25 11:09*	*02/28/25 14:35*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/27/25 11:09*	*02/28/25 14:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/28/25 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/28/25 04:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 04:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 04:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*02/27/25 08:28*	*02/28/25 04:54*	*1*
o-Terphenyl	*117*		*70 - 130*	*02/27/25 08:28*	*02/28/25 04:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	780		10.0		mg/Kg			03/01/25 14:51	1

Client Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-11 (0-4.1')

Date Collected: 02/26/25 11:20
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

Lab Sample ID: 880-54955-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:09	02/28/25 16:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:09	02/28/25 16:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:09	02/28/25 16:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/27/25 11:09	02/28/25 16:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/27/25 11:09	02/28/25 16:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/27/25 11:09	02/28/25 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/27/25 11:09*	*02/28/25 16:09*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*02/27/25 11:09*	*02/28/25 16:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/28/25 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/28/25 05:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		02/27/25 08:28	02/28/25 05:10	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/27/25 08:28	02/28/25 05:10	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/27/25 08:28	02/28/25 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*02/27/25 08:28*	*02/28/25 05:10*	*1*
o-Terphenyl	*112*		*70 - 130*	*02/27/25 08:28*	*02/28/25 05:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10300**		199		mg/Kg			03/01/25 14:57	20

Client Sample ID: S-12 (0-4.1')

Date Collected: 02/26/25 11:25
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

Lab Sample ID: 880-54955-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 16:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 16:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 16:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 11:09	02/28/25 16:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 16:30	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 11:09	02/28/25 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/27/25 11:09*	*02/28/25 16:30*	*1*

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-12 (0-4.1')
Date Collected: 02/26/25 11:25
Date Received: 02/26/25 16:35
Sample Depth: 0-4.1'

Lab Sample ID: 880-54955-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*02/27/25 11:09*	*02/28/25 16:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/28/25 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/28/25 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 05:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 05:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/27/25 08:28	02/28/25 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*02/27/25 08:28*	*02/28/25 05:26*	*1*
o-Terphenyl	*109*		*70 - 130*	*02/27/25 08:28*	*02/28/25 05:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13100**		200		mg/Kg			03/01/25 15:03	20

Surrogate Summary

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-54955-1	S-1 (4.1')	86	97
880-54955-1 MS	S-1 (4.1')	103	103
880-54955-1 MSD	S-1 (4.1')	103	98
880-54955-2	S-2 (0-4.1')	96	104
880-54955-3	S-3 (4.1')	111	90
880-54955-4	S-4 (4.1')	90	97
880-54955-5	S-5 (4.1')	100	96
880-54955-6	S-6 (0-4.1')	88	90
880-54955-7	S-7 (5')	97	94
880-54955-8	S-8 (0-4.1')	111	92
880-54955-9	S-9 (0-4.1')	115	94
880-54955-10	S-10 (0-4.1')	104	94
880-54955-11	S-11 (0-4.1')	103	94
880-54955-12	S-12 (0-4.1')	100	97
LCS 880-103742/1-A	Lab Control Sample	97	99
LCSD 880-103742/2-A	Lab Control Sample Dup	96	101
MB 880-103742/5-B	Method Blank	95	89

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-54955-1	S-1 (4.1')	130	116
880-54955-2	S-2 (0-4.1')	130	112
880-54955-3	S-3 (4.1')	130	111
880-54955-4	S-4 (4.1')	133 S1+	116
880-54955-5	S-5 (4.1')	133 S1+	126
880-54955-6	S-6 (0-4.1')	132 S1+	111
880-54955-6 MS	S-6 (0-4.1')	132 S1+	111
880-54955-6 MSD	S-6 (0-4.1')	136 S1+	113
880-54955-7	S-7 (5')	129	113
880-54955-8	S-8 (0-4.1')	134 S1+	114
880-54955-9	S-9 (0-4.1')	135 S1+	118
880-54955-10	S-10 (0-4.1')	133 S1+	117
880-54955-11	S-11 (0-4.1')	125	112
880-54955-12	S-12 (0-4.1')	131 S1+	109
LCS 880-103780/2-A	Lab Control Sample	108	106
LCS 880-103806/2-A	Lab Control Sample	99	95
LCSD 880-103780/3-A	Lab Control Sample Dup	108	104
LCSD 880-103806/3-A	Lab Control Sample Dup	103	100
MB 880-103780/1-A	Method Blank	182 S1+	172 S1+
MB 880-103806/1-A	Method Blank	163 S1+	148 S1+

Surrogate Legend

1CO = 1-Chlorooctane

Surrogate Summary

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-103742/5-B
Matrix: Solid
Analysis Batch: 103959

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 11:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 11:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 11:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 11:09	02/28/25 11:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 11:09	02/28/25 11:09	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 11:09	02/28/25 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*02/27/25 11:09*	*02/28/25 11:09*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*02/27/25 11:09*	*02/28/25 11:09*	*1*

Lab Sample ID: LCS 880-103742/1-A
Matrix: Solid
Analysis Batch: 103959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1106		mg/Kg		111	70 - 130
Toluene	0.100	0.1177		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1135		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2076		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130

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

Lab Sample ID: LCSD 880-103742/2-A
Matrix: Solid
Analysis Batch: 103959

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103742

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1166		mg/Kg		117	70 - 130	5	35
Toluene	0.100	0.1234		mg/Kg		123	70 - 130	5	35
Ethylbenzene	0.100	0.1195		mg/Kg		119	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2171		mg/Kg		109	70 - 130	4	35
o-Xylene	0.100	0.1139		mg/Kg		114	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-54955-1 MS
Matrix: Solid
Analysis Batch: 103959

Client Sample ID: S-1 (4.1')
Prep Type: Total/NA
Prep Batch: 103742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.1073		mg/Kg		107	70 - 130
Toluene	<0.00199	U	0.100	0.1095		mg/Kg		110	70 - 130

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

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

Lab Sample ID: 880-54955-1 MS
Matrix: Solid
Analysis Batch: 103959

Client Sample ID: S-1 (4.1')
Prep Type: Total/NA
Prep Batch: 103742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.100	0.1040		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1888		mg/Kg		94	70 - 130
o-Xylene	<0.00199	U	0.100	0.09800		mg/Kg		98	70 - 130

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

Lab Sample ID: 880-54955-1 MSD
Matrix: Solid
Analysis Batch: 103959

Client Sample ID: S-1 (4.1')
Prep Type: Total/NA
Prep Batch: 103742

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1088		mg/Kg		109	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.1137		mg/Kg		114	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.1113		mg/Kg		111	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2023		mg/Kg		101	70 - 130	7	35
o-Xylene	<0.00199	U	0.100	0.1054		mg/Kg		105	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-103780/1-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103780

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		02/26/25 16:47	02/27/25 18:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/26/25 16:47	02/27/25 18:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/26/25 16:47	02/27/25 18:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*182*	*S1+*	*70 - 130*	*02/26/25 16:47*	*02/27/25 18:31*	*1*
o-Terphenyl	*172*	*S1+*	*70 - 130*	*02/26/25 16:47*	*02/27/25 18:31*	*1*

Lab Sample ID: LCS 880-103780/2-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103780

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	989.3		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	963.0		mg/Kg		96	70 - 130

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

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

Lab Sample ID: LCS 880-103780/2-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103780

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-103780/3-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103780

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	996.7		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	955.4		mg/Kg		96	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: MB 880-103806/1-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103806

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		02/27/25 08:27	02/28/25 02:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/27/25 08:27	02/28/25 02:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/27/25 08:27	02/28/25 02:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	163	S1+	70 - 130	02/27/25 08:27	02/28/25 02:32	1
o-Terphenyl	148	S1+	70 - 130	02/27/25 08:27	02/28/25 02:32	1

Lab Sample ID: LCS 880-103806/2-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1072		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1010		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	95		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-103806/3-A
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103806

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1039		mg/Kg		104	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1073		mg/Kg		107	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-54955-6 MS
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: S-6 (0-4.1')
Prep Type: Total/NA
Prep Batch: 103806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	244.8	F1	mg/Kg		24	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	252.6	F1	mg/Kg		25	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*132*	*S1+*	*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: 880-54955-6 MSD
Matrix: Solid
Analysis Batch: 103820

Client Sample ID: S-6 (0-4.1')
Prep Type: Total/NA
Prep Batch: 103806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	254.4	F1	mg/Kg		25	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	269.5	F1	mg/Kg		27	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*136*	*S1+*	*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103858/1-A
Matrix: Solid
Analysis Batch: 103884

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			03/01/25 12:12	1

QC Sample Results

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-103858/2-A
Matrix: Solid
Analysis Batch: 103884

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.8		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-103858/3-A
Matrix: Solid
Analysis Batch: 103884

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.3		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-54955-4 MS
Matrix: Solid
Analysis Batch: 103884

Client Sample ID: S-4 (4.1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	11300	F1	5050	19960	F1	mg/Kg		171	90 - 110		

Lab Sample ID: 880-54955-4 MSD
Matrix: Solid
Analysis Batch: 103884

Client Sample ID: S-4 (4.1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11300	F1	5050	19970	F1	mg/Kg		171	90 - 110	0	20

Lab Sample ID: MB 880-104936/1-A
Matrix: Solid
Analysis Batch: 104950

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			03/10/25 23:30	1

Lab Sample ID: LCS 880-104936/2-A
Matrix: Solid
Analysis Batch: 104950

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-104936/3-A
Matrix: Solid
Analysis Batch: 104950

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.8		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

GC VOA

Prep Batch: 103742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-1	S-1 (4.1')	Total/NA	Solid	5035	
880-54955-2	S-2 (0-4.1')	Total/NA	Solid	5035	
880-54955-3	S-3 (4.1')	Total/NA	Solid	5035	
880-54955-4	S-4 (4.1')	Total/NA	Solid	5035	
880-54955-5	S-5 (4.1')	Total/NA	Solid	5035	
880-54955-6	S-6 (0-4.1')	Total/NA	Solid	5035	
880-54955-7	S-7 (5')	Total/NA	Solid	5035	
880-54955-8	S-8 (0-4.1')	Total/NA	Solid	5035	
880-54955-9	S-9 (0-4.1')	Total/NA	Solid	5035	
880-54955-10	S-10 (0-4.1')	Total/NA	Solid	5035	
880-54955-11	S-11 (0-4.1')	Total/NA	Solid	5035	
880-54955-12	S-12 (0-4.1')	Total/NA	Solid	5035	
MB 880-103742/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-103742/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103742/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-54955-1 MS	S-1 (4.1')	Total/NA	Solid	5035	
880-54955-1 MSD	S-1 (4.1')	Total/NA	Solid	5035	

Analysis Batch: 103959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-1	S-1 (4.1')	Total/NA	Solid	8021B	103742
880-54955-2	S-2 (0-4.1')	Total/NA	Solid	8021B	103742
880-54955-3	S-3 (4.1')	Total/NA	Solid	8021B	103742
880-54955-4	S-4 (4.1')	Total/NA	Solid	8021B	103742
880-54955-5	S-5 (4.1')	Total/NA	Solid	8021B	103742
880-54955-6	S-6 (0-4.1')	Total/NA	Solid	8021B	103742
880-54955-7	S-7 (5')	Total/NA	Solid	8021B	103742
880-54955-8	S-8 (0-4.1')	Total/NA	Solid	8021B	103742
880-54955-9	S-9 (0-4.1')	Total/NA	Solid	8021B	103742
880-54955-10	S-10 (0-4.1')	Total/NA	Solid	8021B	103742
880-54955-11	S-11 (0-4.1')	Total/NA	Solid	8021B	103742
880-54955-12	S-12 (0-4.1')	Total/NA	Solid	8021B	103742
MB 880-103742/5-B	Method Blank	Total/NA	Solid	8021B	103742
LCS 880-103742/1-A	Lab Control Sample	Total/NA	Solid	8021B	103742
LCSD 880-103742/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103742
880-54955-1 MS	S-1 (4.1')	Total/NA	Solid	8021B	103742
880-54955-1 MSD	S-1 (4.1')	Total/NA	Solid	8021B	103742

Analysis Batch: 104212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-1	S-1 (4.1')	Total/NA	Solid	Total BTEX	
880-54955-2	S-2 (0-4.1')	Total/NA	Solid	Total BTEX	
880-54955-3	S-3 (4.1')	Total/NA	Solid	Total BTEX	
880-54955-4	S-4 (4.1')	Total/NA	Solid	Total BTEX	
880-54955-5	S-5 (4.1')	Total/NA	Solid	Total BTEX	
880-54955-6	S-6 (0-4.1')	Total/NA	Solid	Total BTEX	
880-54955-7	S-7 (5')	Total/NA	Solid	Total BTEX	
880-54955-8	S-8 (0-4.1')	Total/NA	Solid	Total BTEX	
880-54955-9	S-9 (0-4.1')	Total/NA	Solid	Total BTEX	
880-54955-10	S-10 (0-4.1')	Total/NA	Solid	Total BTEX	
880-54955-11	S-11 (0-4.1')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

GC VOA (Continued)

Analysis Batch: 104212 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-12	S-12 (0-4.1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 103780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-1	S-1 (4.1')	Total/NA	Solid	8015NM Prep	
880-54955-2	S-2 (0-4.1')	Total/NA	Solid	8015NM Prep	
880-54955-3	S-3 (4.1')	Total/NA	Solid	8015NM Prep	
880-54955-4	S-4 (4.1')	Total/NA	Solid	8015NM Prep	
880-54955-5	S-5 (4.1')	Total/NA	Solid	8015NM Prep	
MB 880-103780/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103780/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 103806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-6	S-6 (0-4.1')	Total/NA	Solid	8015NM Prep	
880-54955-7	S-7 (5')	Total/NA	Solid	8015NM Prep	
880-54955-8	S-8 (0-4.1')	Total/NA	Solid	8015NM Prep	
880-54955-9	S-9 (0-4.1')	Total/NA	Solid	8015NM Prep	
880-54955-10	S-10 (0-4.1')	Total/NA	Solid	8015NM Prep	
880-54955-11	S-11 (0-4.1')	Total/NA	Solid	8015NM Prep	
880-54955-12	S-12 (0-4.1')	Total/NA	Solid	8015NM Prep	
MB 880-103806/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103806/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-54955-6 MS	S-6 (0-4.1')	Total/NA	Solid	8015NM Prep	
880-54955-6 MSD	S-6 (0-4.1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-1	S-1 (4.1')	Total/NA	Solid	8015B NM	103780
880-54955-2	S-2 (0-4.1')	Total/NA	Solid	8015B NM	103780
880-54955-3	S-3 (4.1')	Total/NA	Solid	8015B NM	103780
880-54955-4	S-4 (4.1')	Total/NA	Solid	8015B NM	103780
880-54955-5	S-5 (4.1')	Total/NA	Solid	8015B NM	103780
880-54955-6	S-6 (0-4.1')	Total/NA	Solid	8015B NM	103806
880-54955-7	S-7 (5')	Total/NA	Solid	8015B NM	103806
880-54955-8	S-8 (0-4.1')	Total/NA	Solid	8015B NM	103806
880-54955-9	S-9 (0-4.1')	Total/NA	Solid	8015B NM	103806
880-54955-10	S-10 (0-4.1')	Total/NA	Solid	8015B NM	103806
880-54955-11	S-11 (0-4.1')	Total/NA	Solid	8015B NM	103806
880-54955-12	S-12 (0-4.1')	Total/NA	Solid	8015B NM	103806
MB 880-103780/1-A	Method Blank	Total/NA	Solid	8015B NM	103780
MB 880-103806/1-A	Method Blank	Total/NA	Solid	8015B NM	103806
LCS 880-103780/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103780
LCS 880-103806/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103806
LCSD 880-103780/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103780
LCSD 880-103806/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103806
880-54955-6 MS	S-6 (0-4.1')	Total/NA	Solid	8015B NM	103806

QC Association Summary

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Analysis Batch: 103820 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-6 MSD	S-6 (0-4.1')	Total/NA	Solid	8015B NM	103806

Analysis Batch: 103990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-1	S-1 (4.1')	Total/NA	Solid	8015 NM	
880-54955-2	S-2 (0-4.1')	Total/NA	Solid	8015 NM	
880-54955-3	S-3 (4.1')	Total/NA	Solid	8015 NM	
880-54955-4	S-4 (4.1')	Total/NA	Solid	8015 NM	
880-54955-5	S-5 (4.1')	Total/NA	Solid	8015 NM	
880-54955-6	S-6 (0-4.1')	Total/NA	Solid	8015 NM	
880-54955-7	S-7 (5')	Total/NA	Solid	8015 NM	
880-54955-8	S-8 (0-4.1')	Total/NA	Solid	8015 NM	
880-54955-9	S-9 (0-4.1')	Total/NA	Solid	8015 NM	
880-54955-10	S-10 (0-4.1')	Total/NA	Solid	8015 NM	
880-54955-11	S-11 (0-4.1')	Total/NA	Solid	8015 NM	
880-54955-12	S-12 (0-4.1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 103858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-1	S-1 (4.1')	Soluble	Solid	DI Leach	
880-54955-2	S-2 (0-4.1')	Soluble	Solid	DI Leach	
880-54955-3	S-3 (4.1')	Soluble	Solid	DI Leach	
880-54955-4	S-4 (4.1')	Soluble	Solid	DI Leach	
880-54955-5	S-5 (4.1')	Soluble	Solid	DI Leach	
880-54955-6	S-6 (0-4.1')	Soluble	Solid	DI Leach	
880-54955-8	S-8 (0-4.1')	Soluble	Solid	DI Leach	
880-54955-9	S-9 (0-4.1')	Soluble	Solid	DI Leach	
880-54955-10	S-10 (0-4.1')	Soluble	Solid	DI Leach	
880-54955-11	S-11 (0-4.1')	Soluble	Solid	DI Leach	
880-54955-12	S-12 (0-4.1')	Soluble	Solid	DI Leach	
MB 880-103858/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103858/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103858/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54955-4 MS	S-4 (4.1')	Soluble	Solid	DI Leach	
880-54955-4 MSD	S-4 (4.1')	Soluble	Solid	DI Leach	

Analysis Batch: 103884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-1	S-1 (4.1')	Soluble	Solid	300.0	103858
880-54955-2	S-2 (0-4.1')	Soluble	Solid	300.0	103858
880-54955-3	S-3 (4.1')	Soluble	Solid	300.0	103858
880-54955-4	S-4 (4.1')	Soluble	Solid	300.0	103858
880-54955-5	S-5 (4.1')	Soluble	Solid	300.0	103858
880-54955-6	S-6 (0-4.1')	Soluble	Solid	300.0	103858
880-54955-8	S-8 (0-4.1')	Soluble	Solid	300.0	103858
880-54955-9	S-9 (0-4.1')	Soluble	Solid	300.0	103858
880-54955-10	S-10 (0-4.1')	Soluble	Solid	300.0	103858
880-54955-11	S-11 (0-4.1')	Soluble	Solid	300.0	103858
880-54955-12	S-12 (0-4.1')	Soluble	Solid	300.0	103858

QC Association Summary

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

HPLC/IC (Continued)

Analysis Batch: 103884 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-103858/1-A	Method Blank	Soluble	Solid	300.0	103858
LCS 880-103858/2-A	Lab Control Sample	Soluble	Solid	300.0	103858
LCSD 880-103858/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103858
880-54955-4 MS	S-4 (4.1')	Soluble	Solid	300.0	103858
880-54955-4 MSD	S-4 (4.1')	Soluble	Solid	300.0	103858

Leach Batch: 104936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-7	S-7 (5')	Soluble	Solid	DI Leach	
MB 880-104936/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104936/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104936/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 104950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54955-7	S-7 (5')	Soluble	Solid	300.0	104936
MB 880-104936/1-A	Method Blank	Soluble	Solid	300.0	104936
LCS 880-104936/2-A	Lab Control Sample	Soluble	Solid	300.0	104936
LCSD 880-104936/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104936

Lab Chronicle

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-1 (4.1')
Date Collected: 02/26/25 10:30
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103742	02/27/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 11:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 11:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 00:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103780	02/26/25 16:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 00:08	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	103884	03/01/25 13:35	CH	EET MID

Client Sample ID: S-2 (0-4.1')
Date Collected: 02/26/25 10:35
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103742	02/27/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 11:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 11:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 00:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103780	02/26/25 16:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 00:24	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103884	03/01/25 13:41	CH	EET MID

Client Sample ID: S-3 (4.1')
Date Collected: 02/26/25 10:40
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103742	02/27/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 12:11	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 00:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103780	02/26/25 16:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 00:40	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	103884	03/01/25 13:46	CH	EET MID

Client Sample ID: S-4 (4.1')
Date Collected: 02/26/25 10:45
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103742	02/27/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 12:32	AJ	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-4 (4.1')
Date Collected: 02/26/25 10:45
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-4
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			103990	02/28/25 00:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103780	02/26/25 16:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 00:56	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	103884	03/01/25 13:52	CH	EET MID

Client Sample ID: S-5 (4.1')
Date Collected: 02/26/25 10:50
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103742	02/27/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 12:52	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 01:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103780	02/26/25 16:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 01:12	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	103884	03/01/25 14:10	CH	EET MID

Client Sample ID: S-6 (0-4.1')
Date Collected: 02/26/25 10:55
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103742	02/27/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 13:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 03:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 03:19	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103884	03/01/25 14:16	CH	EET MID

Client Sample ID: S-7 (5')
Date Collected: 02/26/25 11:00
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103742	02/27/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 13:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 13:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 04:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 04:07	TKC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-7 (5')
Date Collected: 02/26/25 11:00
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	104936	03/10/25 15:08	SA	EET MID
Soluble	Analysis	300.0		100	50 mL	50 mL	104950	03/11/25 01:27	CH	EET MID

Client Sample ID: S-8 (0-4.1')
Date Collected: 02/26/25 11:05
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103742	02/27/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 13:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 04:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 04:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103884	03/01/25 14:39	CH	EET MID

Client Sample ID: S-9 (0-4.1')
Date Collected: 02/26/25 11:10
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103742	02/27/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 14:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 14:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 04:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 04:39	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	103884	03/01/25 14:45	CH	EET MID

Client Sample ID: S-10 (0-4.1')
Date Collected: 02/26/25 11:15
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	103742	02/27/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 14:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 14:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 04:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 04:54	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103884	03/01/25 14:51	CH	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Client Sample ID: S-11 (0-4.1')

Date Collected: 02/26/25 11:20
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103742	02/27/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 16:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 16:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 05:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 05:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	103884	03/01/25 14:57	CH	EET MID

Client Sample ID: S-12 (0-4.1')

Date Collected: 02/26/25 11:25
Date Received: 02/26/25 16:35

Lab Sample ID: 880-54955-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103742	02/27/25 11:09	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103959	02/28/25 16:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104212	02/28/25 16:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103990	02/28/25 05:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103806	02/27/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103820	02/28/25 05:26	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103858	02/27/25 11:37	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	103884	03/01/25 15:03	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: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Crain Environmental
Project/Site: Well #525

Job ID: 880-54955-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-54955-1	S-1 (4.1')	Solid	02/26/25 10:30	02/26/25 16:35	4.1'
880-54955-2	S-2 (0-4.1')	Solid	02/26/25 10:35	02/26/25 16:35	0-4.1'
880-54955-3	S-3 (4.1')	Solid	02/26/25 10:40	02/26/25 16:35	4.1'
880-54955-4	S-4 (4.1')	Solid	02/26/25 10:45	02/26/25 16:35	4.1'
880-54955-5	S-5 (4.1')	Solid	02/26/25 10:50	02/26/25 16:35	4.1'
880-54955-6	S-6 (0-4.1')	Solid	02/26/25 10:55	02/26/25 16:35	0-4.1'
880-54955-7	S-7 (5')	Solid	02/26/25 11:00	02/26/25 16:35	4.1'
880-54955-8	S-8 (0-4.1')	Solid	02/26/25 11:05	02/26/25 16:35	0-4.1'
880-54955-9	S-9 (0-4.1')	Solid	02/26/25 11:10	02/26/25 16:35	0-4.1'
880-54955-10	S-10 (0-4.1')	Solid	02/26/25 11:15	02/26/25 16:35	0-4.1'
880-54955-11	S-11 (0-4.1')	Solid	02/26/25 11:20	02/26/25 16:35	0-4.1'
880-54955-12	S-12 (0-4.1')	Solid	02/26/25 11:25	02/26/25 16:35	0-4.1'

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Or

880-54955 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore
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:	Email:	Cindy.crain@gmail.com; billy@faenergy.us.com

Work Order Comments

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

Project Name:	WEU #525	Turn Around	☒ Routine ☐ Rush
Project Number:	-	Due Date:	
Project Location:	Lea Co., NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	-		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TR5
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.0
Total Containers:		Corrected Temperature:	1.9

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-1 (0-4.1')	S	2/26/25	1030	0-4.1'	C	1		X	X	X	
S-2 (0-4.1')			1035	0-4.1'							
S-3 (4.1')			1040	4.1'							
S-4 (4.1')			1045	4.1'							
S-5 (4.1')			1050	4.1'							
S-6 (0-4.1')			1055	0-4.1'							
S-7 (4.1')			1100	4.1'							
S-8 (0-4.1')			1105	0-4.1'							
S-9 (0-4.1')			1110	0-4.1'							
S-10 (0-4.1')	↓	↓	1115	0-4.1'	↓	↓		↓	↓	↓	

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		2/26/25 1635	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: 955

www.xenco.com Page 2 of 2

Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore
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:	Email:	cindy.crain@gmail.com; billy@faenergy.us.com

Work Order Comments

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

Project Name:	WEU #525	Turn Around	
Project Number:	—	☒ Routine ☐ Rush	
Project Location:	Lea Co., NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	—		

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-11 (0-4.1')	S	2/26/25	1120	0-4.1'	C	1		X	X	X	
S-12 (0-4.1')	S	2/26/25	1125	0-4.1'	C	1		X	X	X	

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		2/26/25 1635	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-54955-1
SDG Number: Lea Co. NM

Login Number: 54955
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/19/2025 1:58:14 PM

JOB DESCRIPTION

WELL #525
Lea CO, NM

JOB NUMBER

880-55704-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

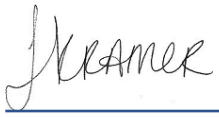
Eurofins Midland

Job Notes

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

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

Authorization



Generated
3/19/2025 1:58:14 PM

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

Client: Crain Environmental
Project/Site: WELL #525

Laboratory Job ID: 880-55704-1
SDG: Lea CO, NM

Table of Contents

Definitions/Glossary

Client: Crain Environmental
Project/Site: WELL #525

Job ID: 880-55704-1
SDG: Lea CO, NM

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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 #525

Job ID: 880-55704-1

Job ID: 880-55704-1 Eurofins Midland

Job Narrative
880-55704-1

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 3/17/2025 2:38 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 5.5°C.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105461 and analytical batch 880-105465 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Crain Environmental
Project/Site: WELL #525

Job ID: 880-55704-1
SDG: Lea CO, NM

Client Sample ID: S-7 (6')
Lab Sample ID: 880-55704-1
Date Collected: 03/13/25 15:20
Matrix: Solid
Date Received: 03/17/25 14:38
Sample Depth: 6'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		10.1		mg/Kg			03/18/25 12:08	1

Client Sample ID: S-9 (0-4')
Lab Sample ID: 880-55704-2
Date Collected: 03/13/25 15:00
Matrix: Solid
Date Received: 03/17/25 14:38
Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		9.96		mg/Kg			03/18/25 12:26	1

Client Sample ID: S-10 (0-4')
Lab Sample ID: 880-55704-3
Date Collected: 03/13/25 15:05
Matrix: Solid
Date Received: 03/17/25 14:38
Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		9.92		mg/Kg			03/18/25 12:32	1

Client Sample ID: S-11 (0-4')
Lab Sample ID: 880-55704-4
Date Collected: 03/13/25 15:10
Matrix: Solid
Date Received: 03/17/25 14:38
Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	148		10.1		mg/Kg			03/18/25 12:38	1

Client Sample ID: S-12 (0-4')
Lab Sample ID: 880-55704-5
Date Collected: 03/13/25 15:15
Matrix: Solid
Date Received: 03/17/25 14:38
Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		9.94		mg/Kg			03/18/25 12:43	1

QC Sample Results

Client: Crain Environmental
Project/Site: WELL #525

Job ID: 880-55704-1
SDG: Lea CO, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-105461/1-A
Matrix: Solid
Analysis Batch: 105465

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			03/18/25 11:51	1

Lab Sample ID: LCS 880-105461/2-A
Matrix: Solid
Analysis Batch: 105465

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.7		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-105461/3-A
Matrix: Solid
Analysis Batch: 105465

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.3		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-55704-1 MS
Matrix: Solid
Analysis Batch: 105465

Client Sample ID: S-7 (6')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1140		252	1340	4	mg/Kg		78	90 - 110		

Lab Sample ID: 880-55704-1 MSD
Matrix: Solid
Analysis Batch: 105465

Client Sample ID: S-7 (6')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1140		252	1339	4	mg/Kg		77	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: WELL #525

Job ID: 880-55704-1
SDG: Lea CO, NM

HPLC/IC

Leach Batch: 105461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55704-1	S-7 (6')	Soluble	Solid	DI Leach	
880-55704-2	S-9 (0-4')	Soluble	Solid	DI Leach	
880-55704-3	S-10 (0-4')	Soluble	Solid	DI Leach	
880-55704-4	S-11 (0-4')	Soluble	Solid	DI Leach	
880-55704-5	S-12 (0-4')	Soluble	Solid	DI Leach	
MB 880-105461/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105461/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105461/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55704-1 MS	S-7 (6')	Soluble	Solid	DI Leach	
880-55704-1 MSD	S-7 (6')	Soluble	Solid	DI Leach	

Analysis Batch: 105465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55704-1	S-7 (6')	Soluble	Solid	300.0	105461
880-55704-2	S-9 (0-4')	Soluble	Solid	300.0	105461
880-55704-3	S-10 (0-4')	Soluble	Solid	300.0	105461
880-55704-4	S-11 (0-4')	Soluble	Solid	300.0	105461
880-55704-5	S-12 (0-4')	Soluble	Solid	300.0	105461
MB 880-105461/1-A	Method Blank	Soluble	Solid	300.0	105461
LCS 880-105461/2-A	Lab Control Sample	Soluble	Solid	300.0	105461
LCSD 880-105461/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105461
880-55704-1 MS	S-7 (6')	Soluble	Solid	300.0	105461
880-55704-1 MSD	S-7 (6')	Soluble	Solid	300.0	105461

Lab Chronicle

Client: Crain Environmental
Project/Site: WELL #525

Job ID: 880-55704-1
SDG: Lea CO, NM

Client Sample ID: S-7 (6')
Lab Sample ID: 880-55704-1
Date Collected: 03/13/25 15:20
Matrix: Solid
Date Received: 03/17/25 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	105461	03/18/25 09:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105465	03/18/25 12:08	CH	EET MID

Client Sample ID: S-9 (0-4')
Lab Sample ID: 880-55704-2
Date Collected: 03/13/25 15:00
Matrix: Solid
Date Received: 03/17/25 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	105461	03/18/25 09:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105465	03/18/25 12:26	CH	EET MID

Client Sample ID: S-10 (0-4')
Lab Sample ID: 880-55704-3
Date Collected: 03/13/25 15:05
Matrix: Solid
Date Received: 03/17/25 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	105461	03/18/25 09:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105465	03/18/25 12:32	CH	EET MID

Client Sample ID: S-11 (0-4')
Lab Sample ID: 880-55704-4
Date Collected: 03/13/25 15:10
Matrix: Solid
Date Received: 03/17/25 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	105461	03/18/25 09:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105465	03/18/25 12:38	CH	EET MID

Client Sample ID: S-12 (0-4')
Lab Sample ID: 880-55704-5
Date Collected: 03/13/25 15:15
Matrix: Solid
Date Received: 03/17/25 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105461	03/18/25 09:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105465	03/18/25 12:43	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: WELL #525

Job ID: 880-55704-1
SDG: Lea CO, NM

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Crain Environmental
Project/Site: WELL #525

Job ID: 880-55704-1
SDG: Lea CO, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: Crain Environmental
Project/Site: WELL #525

Job ID: 880-55704-1
SDG: Lea CO, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-55704-1	S-7 (6')	Solid	03/13/25 15:20	03/17/25 14:38	6'
880-55704-2	S-9 (0-4')	Solid	03/13/25 15:00	03/17/25 14:38	0-4'
880-55704-3	S-10 (0-4')	Solid	03/13/25 15:05	03/17/25 14:38	0-4'
880-55704-4	S-11 (0-4')	Solid	03/13/25 15:10	03/17/25 14:38	0-4'
880-55704-5	S-12 (0-4')	Solid	03/13/25 15:15	03/17/25 14:38	0-4'

eurofins | Environment Testing Xenco

Chain of Custody

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

880-55704 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore
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; billy@faenergy.us.com

Work Order Comments

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

Project Name:	WFU #525	Turn Around	☒ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea Co., NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.6
Total Containers:		Corrected Temperature:	5.5

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015 M	Parameters: Chlorides	Sample Comments
S-7 (6')	S	3/13/25	3:20	6'	C	1			X	
S-9 (0-4')			3:00	0-4'	C	1				
S-10 (0-4')			3:05	0-4'						
S-11 (0-4')			3:10	0-4'						
S-12 (0-4')			3:15	0-4'						

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		3/17/25 1436	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-55704-1
SDG Number: Lea CO, NM

Login Number: 55704
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/1/2024 12:26:56 PM Revision 1

JOB DESCRIPTION

West Eumont Unit #525

JOB NUMBER

880-46542-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

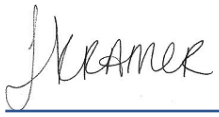
Eurofins Midland

Job Notes

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

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

Authorization



Generated
8/1/2024 12:26:56 PM
Revision 1

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

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Laboratory Job ID: 880-46542-1

Table of Contents

Definitions/Glossary

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: West Eumont Unit #525

Job ID: 880-46542-1

Job ID: 880-46542-1 Eurofins Midland

Job Narrative
880-46542-1

REVISION

The report being provided is a revision of the original report sent on 7/31/2024. The report (revision 1) is being revised due to Per client email, requesting project info to be added to report.

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 7/26/2024 1:40 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 7.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-4') (880-46542-1), S-2 (0-4') (880-46542-2), S-3 (0-4') (880-46542-3), S-4 (0-3') (880-46542-4), S-5 (0-4') (880-46542-5), S-6 (2') (880-46542-6), S-7 (5') (880-46542-7) and S-8 (1') (880-46542-8).

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-86819/3-A) and (MB 880-86819/1-A). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Client Sample ID: S-1 (0-4')

Date Collected: 07/25/24 12:20
Date Received: 07/26/24 13:40
Sample Depth: 0-4'

Lab Sample ID: 880-46542-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/29/24 09:18	07/29/24 12:32	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/29/24 09:18	07/29/24 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/29/24 09:18*	*07/29/24 12:32*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/29/24 09:18*	*07/29/24 12:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/29/24 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**15.3**	**J**	49.6	15.0	mg/Kg			07/30/24 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		07/26/24 15:33	07/30/24 15:44	1
Diesel Range Organics (Over C10-C28)	**15.3**	**J**	49.6	15.0	mg/Kg		07/26/24 15:33	07/30/24 15:44	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		07/26/24 15:33	07/30/24 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/26/24 15:33*	*07/30/24 15:44*	*1*
o-Terphenyl	*82*		*70 - 130*	*07/26/24 15:33*	*07/30/24 15:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10900**		99.4	7.85	mg/Kg			07/30/24 21:10	20

Client Sample ID: S-2 (0-4')

Date Collected: 07/25/24 12:25
Date Received: 07/26/24 13:40
Sample Depth: 0-4'

Lab Sample ID: 880-46542-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/29/24 09:18	07/29/24 12:53	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/29/24 09:18	07/29/24 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*07/29/24 09:18*	*07/29/24 12:53*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Client Sample ID: S-2 (0-4')

Lab Sample ID: 880-46542-2
Matrix: Solid
Date Collected: 07/25/24 12:25
Date Received: 07/26/24 13:40
Sample Depth: 0-4'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/29/24 09:18*	*07/29/24 12:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			07/29/24 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			07/30/24 16:01	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	<14.4	U	49.7	14.4	mg/Kg		07/26/24 15:33	07/30/24 16:01	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		07/26/24 15:33	07/30/24 16:01	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		07/26/24 15:33	07/30/24 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/26/24 15:33*	*07/30/24 16:01*	*1*
o-Terphenyl	*78*		*70 - 130*	*07/26/24 15:33*	*07/30/24 16:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**398**		4.96	0.392	mg/Kg			07/30/24 21:33	1

Client Sample ID: S-3 (0-4')

Lab Sample ID: 880-46542-3
Matrix: Solid
Date Collected: 07/25/24 12:30
Date Received: 07/26/24 13:40
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		07/29/24 09:18	07/29/24 13:13	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		07/29/24 09:18	07/29/24 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*07/29/24 09:18*	*07/29/24 13:13*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/29/24 09:18*	*07/29/24 13:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			07/29/24 13:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**89.8**		49.8	15.1	mg/Kg			07/30/24 16:32	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Client Sample ID: S-3 (0-4')

Lab Sample ID: 880-46542-3
Matrix: Solid
Date Collected: 07/25/24 12:30
Date Received: 07/26/24 13:40
Sample Depth: 0-4'

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	<14.5	U	49.8	14.5	mg/Kg		07/26/24 15:33	07/30/24 16:32	1
Diesel Range Organics (Over C10-C28)	**89.8**		49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 16:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/26/24 15:33*	*07/30/24 16:32*	*1*
o-Terphenyl	*85*		*70 - 130*	*07/26/24 15:33*	*07/30/24 16:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8780**		99.6	7.87	mg/Kg			07/30/24 21:41	20

Client Sample ID: S-4 (0-3')

Lab Sample ID: 880-46542-4
Matrix: Solid
Date Collected: 07/25/24 12:35
Date Received: 07/26/24 13:40
Sample Depth: 0-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		07/29/24 09:18	07/29/24 13:34	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		07/29/24 09:18	07/29/24 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/29/24 09:18*	*07/29/24 13:34*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/29/24 09:18*	*07/29/24 13:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			07/29/24 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			07/30/24 16:48	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	<14.4	U	49.7	14.4	mg/Kg		07/26/24 15:33	07/30/24 16:48	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		07/26/24 15:33	07/30/24 16:48	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		07/26/24 15:33	07/30/24 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*07/26/24 15:33*	*07/30/24 16:48*	*1*
o-Terphenyl	*71*		*70 - 130*	*07/26/24 15:33*	*07/30/24 16:48*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Client Sample ID: S-4 (0-3')

Lab Sample ID: 880-46542-4
Matrix: Solid
Date Collected: 07/25/24 12:35
Date Received: 07/26/24 13:40
Sample Depth: 0-3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8540**		49.5	3.91	mg/Kg			07/30/24 21:49	10

Client Sample ID: S-5 (0-4')

Lab Sample ID: 880-46542-5
Matrix: Solid
Date Collected: 07/25/24 12:40
Date Received: 07/26/24 13:40
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/29/24 09:18	07/29/24 13:54	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/29/24 09:18	07/29/24 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*07/29/24 09:18*	*07/29/24 13:54*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/29/24 09:18*	*07/29/24 13:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			07/29/24 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**47.8**	**J**	49.8	15.1	mg/Kg			07/30/24 17:03	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	<14.5	U	49.8	14.5	mg/Kg		07/26/24 15:33	07/30/24 17:03	1
Diesel Range Organics (Over C10-C28)	**47.8**	**J**	49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*07/26/24 15:33*	*07/30/24 17:03*	*1*
o-Terphenyl	*80*		*70 - 130*	*07/26/24 15:33*	*07/30/24 17:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5270**		50.4	3.98	mg/Kg			07/30/24 21:57	10

Client Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Client Sample ID: S-6 (2')

Date Collected: 07/25/24 12:45
Date Received: 07/26/24 13:40
Sample Depth: 2'

Lab Sample ID: 880-46542-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/29/24 09:18	07/29/24 14:14	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		07/29/24 09:18	07/29/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/29/24 09:18*	*07/29/24 14:14*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/29/24 09:18*	*07/29/24 14:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			07/29/24 14:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			07/30/24 17:19	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	<14.5	U	49.9	14.5	mg/Kg		07/26/24 15:33	07/30/24 17:19	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:19	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/26/24 15:33*	*07/30/24 17:19*	*1*
o-Terphenyl	*78*		*70 - 130*	*07/26/24 15:33*	*07/30/24 17:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.8**		4.97	0.393	mg/Kg			07/30/24 22:21	1

Client Sample ID: S-7 (5')

Date Collected: 07/25/24 12:50
Date Received: 07/26/24 13:40
Sample Depth: 5'

Lab Sample ID: 880-46542-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/29/24 09:18	07/29/24 14:35	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		07/29/24 09:18	07/29/24 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*07/29/24 09:18*	*07/29/24 14:35*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Client Sample ID: S-7 (5')

Date Collected: 07/25/24 12:50
Date Received: 07/26/24 13:40
Sample Depth: 5'

Lab Sample ID: 880-46542-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/29/24 09:18*	*07/29/24 14:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			07/29/24 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.9**		50.0	15.1	mg/Kg			07/30/24 17:34	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	<14.5	U	50.0	14.5	mg/Kg		07/26/24 15:33	07/30/24 17:34	1
Diesel Range Organics (Over C10-C28)	**50.9**		50.0	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*07/26/24 15:33*	*07/30/24 17:34*	*1*
o-Terphenyl	*86*		*70 - 130*	*07/26/24 15:33*	*07/30/24 17:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		5.01	0.396	mg/Kg			07/30/24 22:29	1

Client Sample ID: S-8 (1')

Date Collected: 07/25/24 12:55
Date Received: 07/26/24 13:40
Sample Depth: 1'

Lab Sample ID: 880-46542-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/29/24 09:18	07/29/24 14:55	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/29/24 09:18	07/29/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/29/24 09:18*	*07/29/24 14:55*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/29/24 09:18*	*07/29/24 14:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			07/29/24 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			07/30/24 17:49	1

Client Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Client Sample ID: S-8 (1')

Date Collected: 07/25/24 12:55
Date Received: 07/26/24 13:40
Sample Depth: 1'

Lab Sample ID: 880-46542-8

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	<14.5	U	49.8	14.5	mg/Kg		07/26/24 15:33	07/30/24 17:49	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/26/24 15:33	07/30/24 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/26/24 15:33*	*07/30/24 17:49*	*1*
o-Terphenyl	*86*		*70 - 130*	*07/26/24 15:33*	*07/30/24 17:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.8**		5.05	0.399	mg/Kg			07/30/24 22:36	1

Surrogate Summary

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-46542-1	S-1 (0-4')	121	87
880-46542-2	S-2 (0-4')	120	86
880-46542-3	S-3 (0-4')	119	86
880-46542-4	S-4 (0-3')	121	86
880-46542-5	S-5 (0-4')	123	87
880-46542-6	S-6 (2')	122	85
880-46542-7	S-7 (5')	122	87
880-46542-8	S-8 (1')	121	86
880-46546-A-1-D MS	Matrix Spike	117	90
880-46546-A-1-E MSD	Matrix Spike Duplicate	117	90
LCS 880-86874/1-A	Lab Control Sample	123	92
LCSD 880-86874/2-A	Lab Control Sample Dup	116	90
MB 880-86874/5-A	Method Blank	117	81

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-46540-A-1-C MS	Matrix Spike	111	90
880-46540-A-1-D MSD	Matrix Spike Duplicate	110	89
880-46542-1	S-1 (0-4')	90	82
880-46542-2	S-2 (0-4')	88	78
880-46542-3	S-3 (0-4')	92	85
880-46542-4	S-4 (0-3')	79	71
880-46542-5	S-5 (0-4')	89	80
880-46542-6	S-6 (2')	90	78
880-46542-7	S-7 (5')	94	86
880-46542-8	S-8 (1')	99	86
LCS 880-86819/2-A	Lab Control Sample	116	96
LCSD 880-86819/3-A	Lab Control Sample Dup	132 S1+	111
MB 880-86819/1-A	Method Blank	95	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-86874/5-A
Matrix: Solid
Analysis Batch: 86860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/29/24 09:18	07/29/24 12:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/29/24 09:18	07/29/24 12:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/29/24 09:18	07/29/24 12:10	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/29/24 09:18	07/29/24 12:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/29/24 09:18	07/29/24 12:10	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/29/24 09:18	07/29/24 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/29/24 09:18*	*07/29/24 12:10*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*07/29/24 09:18*	*07/29/24 12:10*	*1*

Lab Sample ID: LCS 880-86874/1-A
Matrix: Solid
Analysis Batch: 86860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1161		mg/Kg		116	70 - 130
Toluene	0.100	0.1109		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1075		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2334		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1167		mg/Kg		117	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-86874/2-A
Matrix: Solid
Analysis Batch: 86860

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 86874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1089		mg/Kg		109	70 - 130	6	35
Toluene	0.100	0.1040		mg/Kg		104	70 - 130	6	35
Ethylbenzene	0.100	0.1008		mg/Kg		101	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2195		mg/Kg		110	70 - 130	6	35
o-Xylene	0.100	0.1103		mg/Kg		110	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-46546-A-1-D MS
Matrix: Solid
Analysis Batch: 86860

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 86874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00141	U	0.100	0.1153		mg/Kg		115	70 - 130
Toluene	<0.00202	U	0.100	0.1098		mg/Kg		110	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

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

Lab Sample ID: 880-46546-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 86860 — **Prep Batch: 86874**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00110	U	0.100	0.1059		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	<0.00231	U	0.200	0.2303		mg/Kg		115	70 - 130
o-Xylene	<0.00160	U	0.100	0.1150		mg/Kg		115	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-46546-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 86860 — **Prep Batch: 86874**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00141	U	0.100	0.1077		mg/Kg		108	70 - 130	7	35
Toluene	<0.00202	U	0.100	0.1021		mg/Kg		102	70 - 130	7	35
Ethylbenzene	<0.00110	U	0.100	0.09879		mg/Kg		99	70 - 130	7	35
m-Xylene & p-Xylene	<0.00231	U	0.200	0.2141		mg/Kg		107	70 - 130	7	35
o-Xylene	<0.00160	U	0.100	0.1077		mg/Kg		108	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

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

Lab Sample ID: MB 880-86819/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 86941 — **Prep Batch: 86819**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/26/24 15:33	07/30/24 10:25	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/26/24 15:33	07/30/24 10:25	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/26/24 15:33	07/30/24 10:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*07/26/24 15:33*	*07/30/24 10:25*	*1*
o-Terphenyl	*163*	*S1+*	*70 - 130*	*07/26/24 15:33*	*07/30/24 10:25*	*1*

Lab Sample ID: LCS 880-86819/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 86941 — **Prep Batch: 86819**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1097		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1048		mg/Kg		105	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

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

Lab Sample ID: LCS 880-86819/2-A
Matrix: Solid
Analysis Batch: 86941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86819

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-86819/3-A
Matrix: Solid
Analysis Batch: 86941

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 86819

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1084		mg/Kg		108	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1122		mg/Kg		112	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-46540-A-1-C MS
Matrix: Solid
Analysis Batch: 86941

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 86819

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	996	1111		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U	996	981.2		mg/Kg		99	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-46540-A-1-D MSD
Matrix: Solid
Analysis Batch: 86941

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 86819

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	<14.5	U	996	1101		mg/Kg		111	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.1	U	996	928.1		mg/Kg		93	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	89		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-86856/1-A
Matrix: Solid
Analysis Batch: 86912

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			07/30/24 20:46	1

Lab Sample ID: LCS 880-86856/2-A
Matrix: Solid
Analysis Batch: 86912

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-86856/3-A
Matrix: Solid
Analysis Batch: 86912

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	265.0		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 880-46542-1 MS
Matrix: Solid
Analysis Batch: 86912

Client Sample ID: S-1 (0-4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	10900		4970	15890		mg/Kg		100	90 - 110		

Lab Sample ID: 880-46542-1 MSD
Matrix: Solid
Analysis Batch: 86912

Client Sample ID: S-1 (0-4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10900		4970	15950		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

GC VOA

Analysis Batch: 86860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	8021B	86874
880-46542-2	S-2 (0-4')	Total/NA	Solid	8021B	86874
880-46542-3	S-3 (0-4')	Total/NA	Solid	8021B	86874
880-46542-4	S-4 (0-3')	Total/NA	Solid	8021B	86874
880-46542-5	S-5 (0-4')	Total/NA	Solid	8021B	86874
880-46542-6	S-6 (2')	Total/NA	Solid	8021B	86874
880-46542-7	S-7 (5')	Total/NA	Solid	8021B	86874
880-46542-8	S-8 (1')	Total/NA	Solid	8021B	86874
MB 880-86874/5-A	Method Blank	Total/NA	Solid	8021B	86874
LCS 880-86874/1-A	Lab Control Sample	Total/NA	Solid	8021B	86874
LCSD 880-86874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	86874
880-46546-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	86874
880-46546-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	86874

Prep Batch: 86874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	5035	
880-46542-2	S-2 (0-4')	Total/NA	Solid	5035	
880-46542-3	S-3 (0-4')	Total/NA	Solid	5035	
880-46542-4	S-4 (0-3')	Total/NA	Solid	5035	
880-46542-5	S-5 (0-4')	Total/NA	Solid	5035	
880-46542-6	S-6 (2')	Total/NA	Solid	5035	
880-46542-7	S-7 (5')	Total/NA	Solid	5035	
880-46542-8	S-8 (1')	Total/NA	Solid	5035	
MB 880-86874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-86874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-86874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46546-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-46546-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 87023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	Total BTEX	
880-46542-2	S-2 (0-4')	Total/NA	Solid	Total BTEX	
880-46542-3	S-3 (0-4')	Total/NA	Solid	Total BTEX	
880-46542-4	S-4 (0-3')	Total/NA	Solid	Total BTEX	
880-46542-5	S-5 (0-4')	Total/NA	Solid	Total BTEX	
880-46542-6	S-6 (2')	Total/NA	Solid	Total BTEX	
880-46542-7	S-7 (5')	Total/NA	Solid	Total BTEX	
880-46542-8	S-8 (1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 86819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	8015NM Prep	
880-46542-2	S-2 (0-4')	Total/NA	Solid	8015NM Prep	
880-46542-3	S-3 (0-4')	Total/NA	Solid	8015NM Prep	
880-46542-4	S-4 (0-3')	Total/NA	Solid	8015NM Prep	
880-46542-5	S-5 (0-4')	Total/NA	Solid	8015NM Prep	
880-46542-6	S-6 (2')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

GC Semi VOA (Continued)

Prep Batch: 86819 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-7	S-7 (5')	Total/NA	Solid	8015NM Prep	
880-46542-8	S-8 (1')	Total/NA	Solid	8015NM Prep	
MB 880-86819/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-86819/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-86819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46540-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46540-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 86941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	8015B NM	86819
880-46542-2	S-2 (0-4')	Total/NA	Solid	8015B NM	86819
880-46542-3	S-3 (0-4')	Total/NA	Solid	8015B NM	86819
880-46542-4	S-4 (0-3')	Total/NA	Solid	8015B NM	86819
880-46542-5	S-5 (0-4')	Total/NA	Solid	8015B NM	86819
880-46542-6	S-6 (2')	Total/NA	Solid	8015B NM	86819
880-46542-7	S-7 (5')	Total/NA	Solid	8015B NM	86819
880-46542-8	S-8 (1')	Total/NA	Solid	8015B NM	86819
MB 880-86819/1-A	Method Blank	Total/NA	Solid	8015B NM	86819
LCS 880-86819/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	86819
LCSD 880-86819/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	86819
880-46540-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	86819
880-46540-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	86819

Analysis Batch: 87100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Total/NA	Solid	8015 NM	
880-46542-2	S-2 (0-4')	Total/NA	Solid	8015 NM	
880-46542-3	S-3 (0-4')	Total/NA	Solid	8015 NM	
880-46542-4	S-4 (0-3')	Total/NA	Solid	8015 NM	
880-46542-5	S-5 (0-4')	Total/NA	Solid	8015 NM	
880-46542-6	S-6 (2')	Total/NA	Solid	8015 NM	
880-46542-7	S-7 (5')	Total/NA	Solid	8015 NM	
880-46542-8	S-8 (1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 86856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Soluble	Solid	DI Leach	
880-46542-2	S-2 (0-4')	Soluble	Solid	DI Leach	
880-46542-3	S-3 (0-4')	Soluble	Solid	DI Leach	
880-46542-4	S-4 (0-3')	Soluble	Solid	DI Leach	
880-46542-5	S-5 (0-4')	Soluble	Solid	DI Leach	
880-46542-6	S-6 (2')	Soluble	Solid	DI Leach	
880-46542-7	S-7 (5')	Soluble	Solid	DI Leach	
880-46542-8	S-8 (1')	Soluble	Solid	DI Leach	
MB 880-86856/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-86856/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-86856/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46542-1 MS	S-1 (0-4')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

HPLC/IC (Continued)

Leach Batch: 86856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1 MSD	S-1 (0-4')	Soluble	Solid	DI Leach	

Analysis Batch: 86912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46542-1	S-1 (0-4')	Soluble	Solid	300.0	86856
880-46542-2	S-2 (0-4')	Soluble	Solid	300.0	86856
880-46542-3	S-3 (0-4')	Soluble	Solid	300.0	86856
880-46542-4	S-4 (0-3')	Soluble	Solid	300.0	86856
880-46542-5	S-5 (0-4')	Soluble	Solid	300.0	86856
880-46542-6	S-6 (2')	Soluble	Solid	300.0	86856
880-46542-7	S-7 (5')	Soluble	Solid	300.0	86856
880-46542-8	S-8 (1')	Soluble	Solid	300.0	86856
MB 880-86856/1-A	Method Blank	Soluble	Solid	300.0	86856
LCS 880-86856/2-A	Lab Control Sample	Soluble	Solid	300.0	86856
LCSD 880-86856/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	86856
880-46542-1 MS	S-1 (0-4')	Soluble	Solid	300.0	86856
880-46542-1 MSD	S-1 (0-4')	Soluble	Solid	300.0	86856

Lab Chronicle

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Client Sample ID: S-1 (0-4')
Date Collected: 07/25/24 12:20
Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 12:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 15:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 15:44	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	86912	07/30/24 21:10	CH	EET MID

Client Sample ID: S-2 (0-4')
Date Collected: 07/25/24 12:25
Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 12:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 12:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 16:01	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86912	07/30/24 21:33	CH	EET MID

Client Sample ID: S-3 (0-4')
Date Collected: 07/25/24 12:30
Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 13:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 16:32	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 16:32	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	86912	07/30/24 21:41	CH	EET MID

Client Sample ID: S-4 (0-3')
Date Collected: 07/25/24 12:35
Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 13:34	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Client Sample ID: S-4 (0-3')
Date Collected: 07/25/24 12:35
Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-4
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			87100	07/30/24 16:48	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 16:48	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	86912	07/30/24 21:49	CH	EET MID

Client Sample ID: S-5 (0-4')
Date Collected: 07/25/24 12:40
Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 13:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 17:03	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 17:03	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	86912	07/30/24 21:57	CH	EET MID

Client Sample ID: S-6 (2')
Date Collected: 07/25/24 12:45
Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 14:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 17:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 17:19	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86912	07/30/24 22:21	CH	EET MID

Client Sample ID: S-7 (5')
Date Collected: 07/25/24 12:50
Date Received: 07/26/24 13:40

Lab Sample ID: 880-46542-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 14:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 17:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 17:34	AJ	EET MID

Lab Chronicle

Client: Crain Environmental
Job ID: 880-46542-1
Project/Site: West Eumont Unit #525

Client Sample ID: S-7 (5')
Lab Sample ID: 880-46542-7
Date Collected: 07/25/24 12:50
Matrix: Solid
Date Received: 07/26/24 13:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86912	07/30/24 22:29	CH	EET MID

Client Sample ID: S-8 (1')
Lab Sample ID: 880-46542-8
Date Collected: 07/25/24 12:55
Matrix: Solid
Date Received: 07/26/24 13:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	86874	07/29/24 09:18	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	86860	07/29/24 14:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87023	07/29/24 14:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			87100	07/30/24 17:49	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	86819	07/26/24 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86941	07/30/24 17:49	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	86856	07/29/24 08:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86912	07/30/24 22:36	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
Job ID: 880-46542-1
Project/Site: West Eumont Unit #525

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Crain Environmental
Project/Site: West Eumont Unit #525

Job ID: 880-46542-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-46542-1	S-1 (0-4')	Solid	07/25/24 12:20	07/26/24 13:40	0-4'
880-46542-2	S-2 (0-4')	Solid	07/25/24 12:25	07/26/24 13:40	0-4'
880-46542-3	S-3 (0-4')	Solid	07/25/24 12:30	07/26/24 13:40	0-4'
880-46542-4	S-4 (0-3')	Solid	07/25/24 12:35	07/26/24 13:40	0-3'
880-46542-5	S-5 (0-4')	Solid	07/25/24 12:40	07/26/24 13:40	0-4'
880-46542-6	S-6 (2')	Solid	07/25/24 12:45	07/26/24 13:40	2'
880-46542-7	S-7 (5')	Solid	07/25/24 12:50	07/26/24 13:40	5'
880-46542-8	S-8 (1')	Solid	07/25/24 12:55	07/26/24 13:40	1'

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Ord

880-46542 Chain of Custody

www.xenco.com

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@fortyenergy.us.com

Work Order Comments

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

Project Name:	WEU #525	Turn Around	
Project Number:		☒ Routine ☐ Rush	Pres. Code
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR6
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.1
Total Containers:		Corrected Temperature:	3.0

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-1 (0-4')	S	7/25/24	1220	0-4'	C	1	X	X	X	
S-2 (0-4')			1225	0-4'						
S-3 (0-4')			1230	0-4'						
S-4 (0-3')			1235	0-3'						
S-5 (0-4')			1240	0-4'						
S-6 (2')			1245	2'						
S-7 (5')			1250	5'						
S-8 (1')			1255	1'						

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		7/26/24 1340	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-46542-1

Login Number: 46542 **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	

Appendix D: Photographic Documentation

APPENDIX D
PHOTOGRAPHIC DOCUMENTATION
WEST EUMONT UNIT #525


View to N of release point (2/22/24).


View to E of release point and excavation (7/25/24).


View to W of release point and excavation (7/25/24).


View to N of release point and excavation (7/25/24).


View to SW of excavation (3/13/25).


View to SE of excavation (3/13/25).

Appendix E: Waste Manifests

Make it last

3599

J & L LANDFARM, INC.

P.O. Box 356
HOBBS, NEW MEXICO 88241-0356
PHONE (575) 390-7446 and (575) 631-5766
PERMIT # NM-01-0023

Generator/Company Forty Acres

Authorized Representative Manuel

Originating Site WEU 525

Transporter M. Mata

Authorized Representative

Brief Description of Material Non Hazardous Soil

Estimate Volume (20 cy) 3-25/240 3-26/160 Blue Sagebrush 400 yds

TPH See Test

BE-TEX

CERTIFICATE OF CHEMICAL ANALYSIS (if required)

FACILITY AUTHORIZED REPRESENTATIVE

DATE 3-25-25

OMG - #2449

OMG - #2449

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 448070
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2405856306**
Incident Name	**NAPP2405856306 WEST EUMONT UNIT #525 @ 30-025-45482**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-45482] WEST EUMONT UNIT #525**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	WEST EUMONT UNIT #525
Date Release Discovered	02/22/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Flow Line - Injection | Produced Water | Released: 22 BBL | Recovered: 17 BBL | Lost: 5 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 (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 448070
	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	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
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: 04/02/2025

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 448070
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
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	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	88800
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	89.8
GRO+DRO (EPA SW-846 Method 8015M)	89.8
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	02/17/2025
On what date will (or did) the final sampling or liner inspection occur	03/13/2025
On what date will (or was) the remediation complete(d)	03/26/2025
What is the estimated surface area (in square feet) that will be reclaimed	1188
What is the estimated volume (in cubic yards) that will be reclaimed	400
What is the estimated surface area (in square feet) that will be remediated	1188
What is the estimated volume (in cubic yards) that will be remediated	400
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 448070
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	MONUMENT SITE #15 (TNM-94-58) [fAB0000000056]
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
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 04/02/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 448070
	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 (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 448070
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**441285**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/13/2025**
What was the (estimated) number of samples that were to be gathered	**4**
What was the sampling surface area in square feet	**990**

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	1188
What was the total volume (cubic yards) remediated	400
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	1188
What was the total volume (in cubic yards) reclaimed	400
Summarize any additional remediation activities not included by answers (above)	Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a nearby 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.

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: 04/02/2025

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 448070
	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/ocd/contact-us

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

CONDITIONS

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 448070
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The remediation closure is approved.	6/20/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/20/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/20/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/20/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	6/20/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	6/20/2025